PRELIMINARY FINAL

ENVIRONMENTAL CONDITION OF PROPERTY REPORT

ENHANCED USE LEASE FOR
POWER PLANT
AND
DATA CENTER

NAVAL SUPPORT FACILITY, INDIAN HEAD
INDIAN HEAD, MARYLAND

Naval Facilities Engineering Command Washington
Public Works Department
NSF Indian Head
3972 Ward Road, Suite 101
Indian Head, MD 20640-5157

July 2010

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Executive Summary

Under its Enhanced Use Leasing (EUL) program, the Department of the Navy (the "Navy") is making available for lease non-excess real property at Naval Support Facility (NSF) Indian Head, located in Indian Head, Maryland. The property proposed for outleasing includes two sites located at NSF Indian Head. The Navy is seeking a lessee to establish, operate and maintain a commercial-scale, natural gas-fired electrical power generation facility, and to develop compatible commercial/light industrial facilities, potentially including a data center, in exchange for cash and/or in-kind services.

Environmental Condition of Property (ECP) reports were prepared for both sites. The Power Plant ECP report was prepared for the 30-acre property and 33 buildings/structures proposed to be demolished as part of the proposed power plant action. The Data Center ECP report was prepared for the 16-acre area proposed for commercial/light industrial facilities redevelopment, potentially including a data center.

These reports evaluate the current and former uses of the land and facilities; describe the known environmental conditions of the land, facilities, and real property assets within the sites; and summarize any environmental restrictions and land use controls that may be necessary for development within the sites. All available and pertinent files, records, reports and aerial photographs were reviewed and, where necessary, a site inspection and/or personal interviews were conducted to document the environmental conditions of the property to support the proposed real estate actions. Contents within these reports are subject to revision as additional information is obtained regarding the environmental condition of the properties.

These reports were developed in accordance with the Navy's Policy for Streamlining the Assessment, Documentation, and Disclosure of the Environmental Condition of Property (ECP) for Non-BRAC Real Estate Actions.

Preliminary Final

Environmental Condition of Property Report Enhanced Use Lease for Power Plant

Naval Support Facility, Indian Head Indian Head, Maryland

Prepared for:

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Installation: Naval Support Facility - Indian Head

Parcel/Site Location and Description: The approximately 30-acre property surrounding the Goddard Power Plant with 31 buildings within the property and 2 near the site. Refer to Appendix A for figures.

Proposed Real Estate Action Description: This property would be leased to a private developer for redevelopment as a natural gas power plant.

Site Summary Information

1. Information regarding site uses and any hazardous materials, contamination, or conditions. All available and pertinent files, records, reports and aerial photographs were reviewed and, where necessary, a site inspection and/or personal interviews were conducted to document the environmental conditions of the property to support the proposed real estate action. A summary of the conditions, sources of information (including location), and any required use restrictions are provided for each environmental condition.

A. Parcel/Site Uses:

Prior Uses: Coal-powered Goddard Power Plant; NAVFAC Public Works Department facilities; CBIRF facilities.

Refer to Appendix B for each building's specific prior use

Current Uses: Goddard Power Plant; NAVFAC Public Works Department facilities; CBIRF facilities.

Refer to Appendix B for each building's specific current use

Future Uses: Natural gas power plant

B. Contaminants: ☒ Yes ☐ No ☐ Unknown

If yes, identify contaminant and media: There are no Installation Restoration (IR) sites within the 30-acre area. Building 490 is located east of the 30-acre area within IR Site 24. Building 1753, located west of the 30-acre area, is adjacent to IR Site 13. The 30-acre area has approximately 146,000 feet (2.11 acres of total area) of railroad running through it. There are 13 buildings that are adjacent to railroad tracks. The railroad tracks have been identified as a Worker Notification Area due to potential contamination with arsenic. The 30-acre area also has a transformer yard, coal yard and two lagoons with potential contamination. There may also be contamination from any hazardous materials or hazardous waste storage or use. Refer to Appendix C for detailed information on contamination and Appendices D and E for information on hazardous materials and hazardous waste.

Source of information: Current Geographic Information System (GIS) Database; IR Program studies; interviews with building managers.

Restrictions or Land Use Controls: ☒ Yes ☐ No

If yes, please identify and explain in detail in Section 2 below.

C. Hazardous Materials Use: ☒ Yes ☐ No ☐ Unknown

Hazardous Materials Storage: ☒ Yes ☐ No ☐ Unknown

Type of HM: Various

Type of Use and/or Storage: Eleven (11) buildings are currently used for the storage or handling of hazardous materials. Appendix C includes excerpts from the Material Location Summary Listing for 2009 Reporting Year, which lists by building all the hazardous materials. Buildings of interest are highlighted. In addition to the materials identified on this list, Buildings 1489 and 1979 are involved in the storage and dispensing of gasoline and diesel fuel for government vehicles. Building 115 may have stored fly ash from past use as a power house storage building. Building 116 temporarily stored hazardous materials due to its use as a shipping and receiving building. Please refer to Appendix D for details.

Source of information: Mark Yeaton, Environmental Program Office; Tom Johnson, NAVFAC; George Thompson, NSWC

Restrictions or Land Use Controls: ☒ Yes ☐ No

If yes, please identify and explain in detail in Section 2 below.

D. Treatment, Storage, Disposal of Hazardous Waste: ☒ Yes ☐ No ☐ Unknown
Source of information: Ten (10) buildings have been used or are currently being used for hazardous waste storage. Refer to Appendix E for details.
Mark Yeaton, Environmental Program Office
Restrictions or Land Use Controls: ☒ Yes ☐ No
If yes, please identify and explain in detail in Section 2 below.

E. Underground Storage Tanks: ☒ Yes ☐ No ☐ Unknown
UST No._____ Gals. _____
Source of information: The only USTs within the 30-acre area are the three (3) 12,000-gallon USTs at Building 1979. There are four (4) buildings within 100 feet of these tanks. There are no other known USTs within the 30-acre area. Refer to Appendix F for details.
Current GIS Data
Restrictions or Land Use Controls: ☒ Yes ☐ No
If yes, please identify and explain in detail in Section 2 below.

F. Above-Ground Storage Tanks: ☒ Yes ☐ No
AST No._____ Gals. _____
Source of information: Building 111 houses two (2) ASTs and there are eight (8) other ASTs in the 30-acre area. Refer to Appendix F for details.
Current GIS Data
Restrictions or Land Use Controls: ☒ Yes ☐ No
If yes, please identify and explain in detail in Section 2 below.

G. Presence of Polychlorinated Biphenyl's (PCB's): ☐ Yes ☐ No ☒ Unknown
Source of information: PCBs may be found at 39 transformers throughout the 30-acre area and at six (6) identified buildings. See Appendix G for details.
Mark Yeaton, Environmental Program Office; Current GIS Data
Restrictions or Land Use Controls: ☒ Yes ☐ No
If yes, please identify and explain in detail in Section 2 below.

H. Asbestos: ☒ Yes ☐ No ☐ Unknown
If yes: ☒ Friable ☒ Non-friable ☐ Unknown
Source of information: Asbestos-containing materials have been identified in Buildings 503 and 510, and may be present at all 33 buildings addressed in this study. See Appendix H for details.
Applied Environmental, Inc.
Restrictions or Land Use Controls: ☒ Yes ☐ No
If yes, please identify and explain in detail in Section 2 below.

I. Lead Paint: ☒ Yes ☐ No ☐ Unknown
Source of information: Lead-containing paint has been identified in Buildings 503 and 510, and may be present at all 33 buildings addressed in this study. See Appendix I for details.
Applied Environmental, Inc.
Restrictions or Land Use Controls: ☒ Yes ☐ No
If yes, please identify and explain in detail in Section 2 below.

J. Radon: ☐ Yes ☒ No ☐ Unknown
Source of information: Radon survey performed in the 1980s. Likely no radon levels of concern.
Mark Yeaton, Environmental Program Office
Restrictions or Land Use Controls: ☐ Yes ☒ No
If yes, please identify and explain in detail in Section 2 below.

K. Radiological Materials: ☐ Yes ☒ No ☐ Unknown
Source of information: Mark Yeaton, Environmental Program Office
Restrictions or Land Use Controls: ☐ Yes ☒ No
If yes, please identify and explain in detail in Section 2 below.

L. Solid/Bio-Hazardous Waste: ☒ Yes ☐ No ☐ Unknown

Source of information: Solid wastes from many of the buildings are described as general office wastes. Scrap metal wastes generated at Building 113 are collected at the scrap yard and recycled. Wastes from other shop operations include oil-soaked rags or used petroleum, oils, and lubricants (POLs). These are collected and transported to Fort Meade, MD where they are disposed of properly. Any wastes would be removed prior to demolition.

Interviews with building managers

Restrictions or Land Use Controls: ☐ Yes ☒ No

If yes, please identify and explain in detail in Section 2 below.

M. Munitions and Explosives of Concern: ☒ Yes ☐ No ☐ Unknown

Source of information: There are no IR or Munitions Response sites within the 30-acre area. Building 490 is within IR Site 24: Abandoned Drain lines. IR Site 24 is the site of potential nitrocellulose (NC) contamination in abandoned drain lines from the former NC production facilities. Due to its explosive characteristics, NC deposits in abandoned drain lines pose an explosives concern. Because some of the abandoned drain lines at this site are composed of terra cotta, they cannot be located with typical utility clearance equipment. There are an additional eight (8) buildings that have the potential for explosives contamination. Refer to Appendix J for details.

Current GIS Data

Restrictions or Land Use Controls: ☒ Yes ☐ No

If yes, please identify and explain in detail in Section 2 below.

N. Threatened or Endangered Species: ☐ Yes ☒ No ☐ Unknown

Source of information: The 30-acre site does not include any protection areas for threatened or endangered flora or fauna.

Current GIS Data

Restrictions or Land Use Controls: ☐ Yes ☒ No

If yes, please identify and explain in detail in Section 2 below.

O. Natural or Cultural Resources: ☒ Yes ☐ No ☐ Unknown

Source of information: Approximately 4.4 acres of land within the EUL boundary and Building 490 are within the Naval Powder Factory Historic District (CH-491). The district is considered historically significant as the first major chemical factory operated by the Navy and an important supplier of smokeless powder during World Wars I and II. It also was the location of an important research and development facility that contributed significantly to the development of more efficient manufacturing processes and new armament technology. However, per a Historic Architectural Survey, Building 490 is not considered a contributing element to the historic district. Small portions of the 30-acre site require Phase 1 surveys to evaluate the presence of archeological resources. One building within the 30-acre site (Building 130- Standpipe) is a contributing element to the Naval Powder Factory Historic District.

Current GIS Data; Phase I Cultural Resources Survey of Stump Neck Annex and Supplemental Architectural Investigations, Indian Head Naval Surface Warfare Center, Charles County, Maryland, R. Christopher Goodwin and Associates, 1998a.

Restrictions or Land Use Controls: ☒ Yes ☐ No

If yes, please identify and explain in detail in Section 2 below.

P. Use of Adjacent Property:

Current Use: Refer to Appendix B for details

Past Use: Refer to Appendix B for details

Source of information: Current and historical building database; GIS data; 1952 map of NSF Indian Head.

Restrictions or Land Use Controls: ☐ Yes ☒ No

If yes, please identify and explain in detail in Section 2 below.

Q. Has the site had any Notices of Violation? ☐ Yes ☒ No

If yes, please explain:

Source of information: Mark Yeaton, Environmental Program Office

Restrictions or Land Use Controls: ☐ Yes ☒ No

If yes, please identify and explain in detail in Section 2 below.

R. Additional information or comments regarding questions shown above (*attach sheet(s) if additional room is needed*):

Refer to Appendix K for references.

Source of information:

Restrictions or Land Use Controls: ☐ Yes ☒ No

If yes, please identify and explain in detail in Section 2 below.

2. List of Land Use Controls required for Real Estate Action:

Refer to Appendix M for the 30-acre site and each building's environmental conditions, restrictions, and land use controls.

3. Signature:

Based on records reviews, site inspections, and interviews, the environmental professional(s) certify that the environmental conditions of the property are as stated in this document and this property is suitable for outgrant.

Environmental Professional:

Signature Title

Print Name Date

The real estate professional(s) acknowledge these restrictions and/or LUCs identified above and will ensure they are made a part of the outgrant document.

Real Estate Professional:

Signature Title

Print Name Date

Property Owner (Activity or Region) acknowledges and accepts the foregoing statement of environmental conditions and the land use controls (if any) that will be required for this real estate outgrant:

Signature Title

Print Name Date

List of Appendices

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Appendix A

FIGURES

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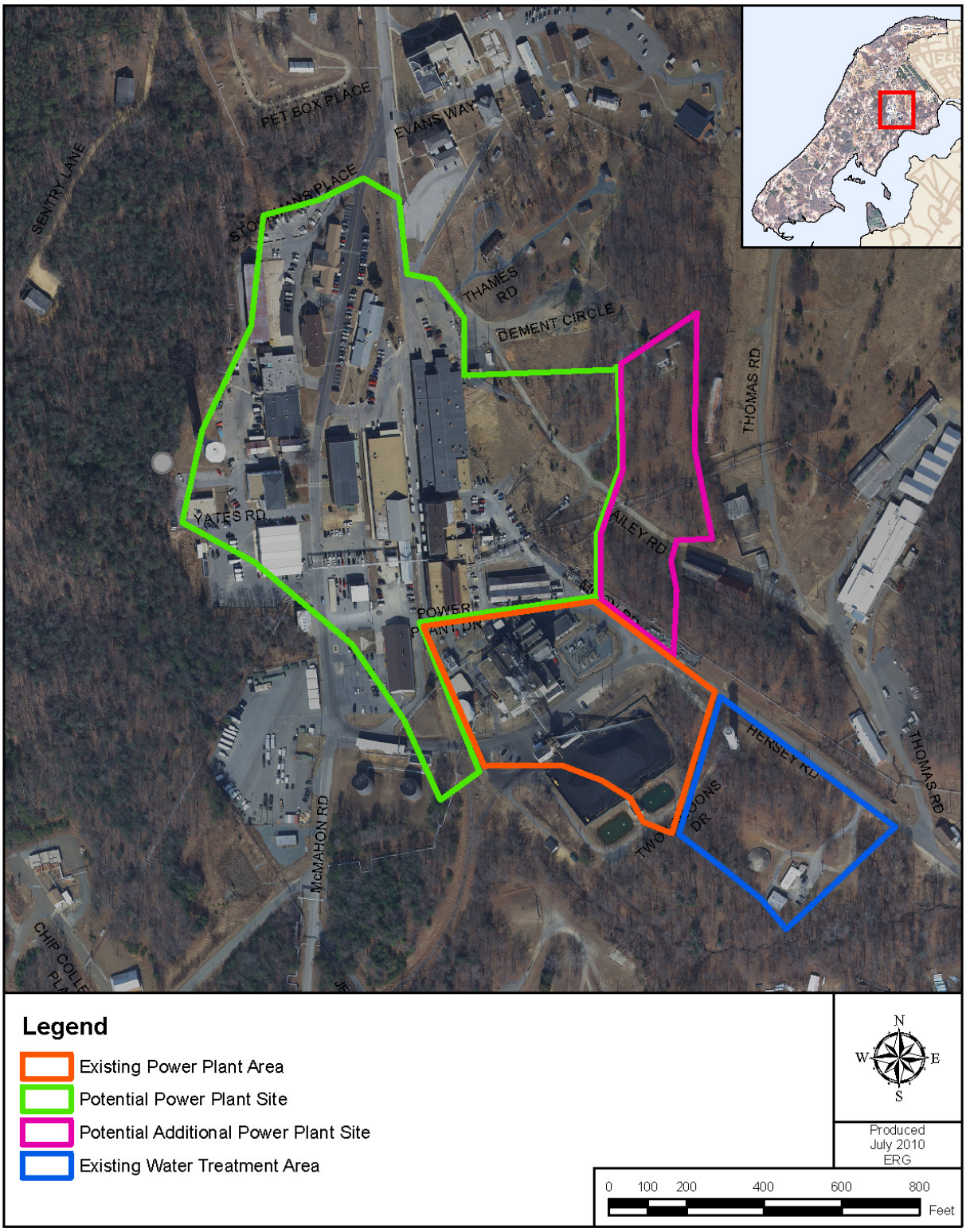

Figure 1: Aerial Map of Power Plant EUL Area

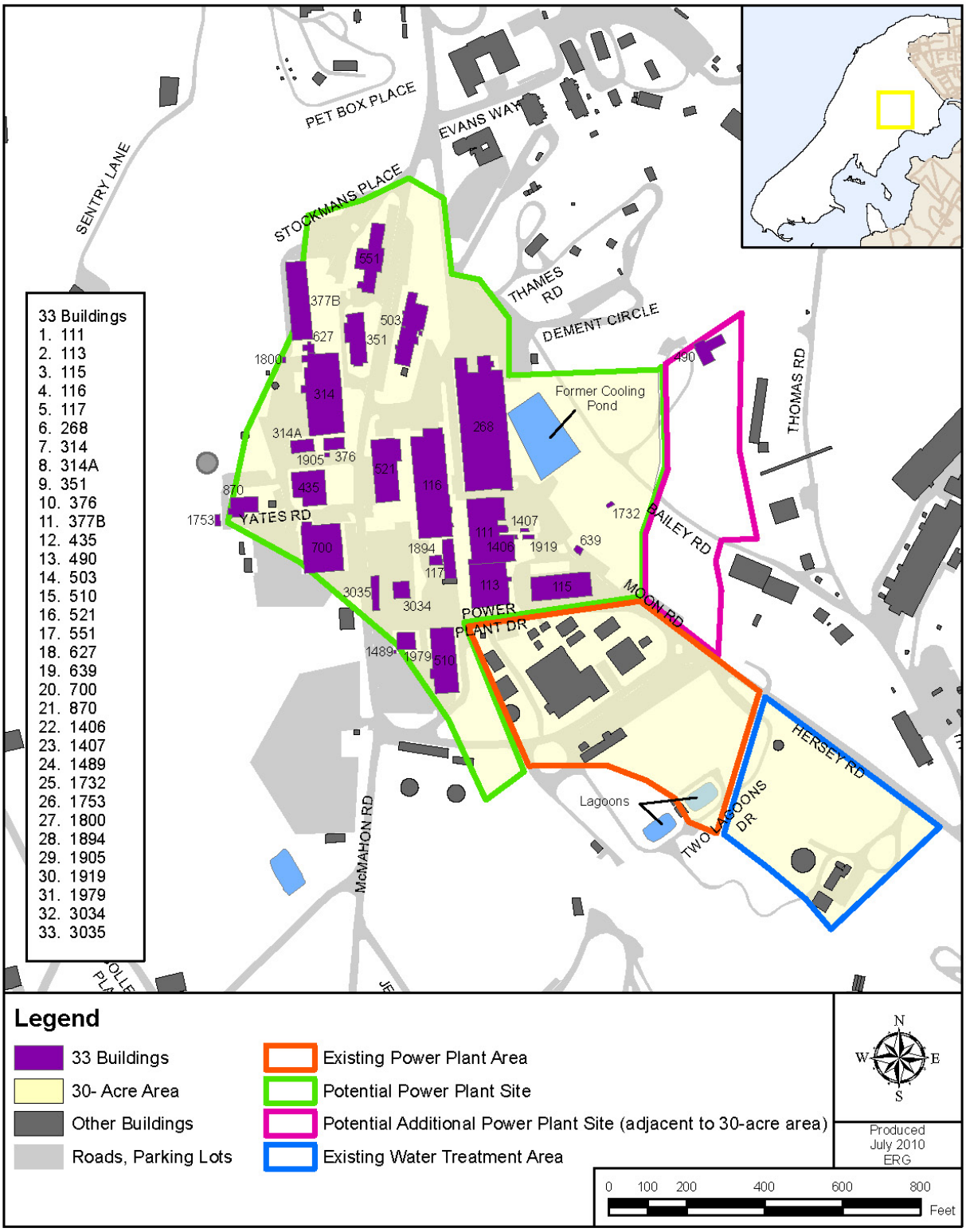

Figure 2: Location of 33 Buildings Addressed Under Power Plant ECP Checklist

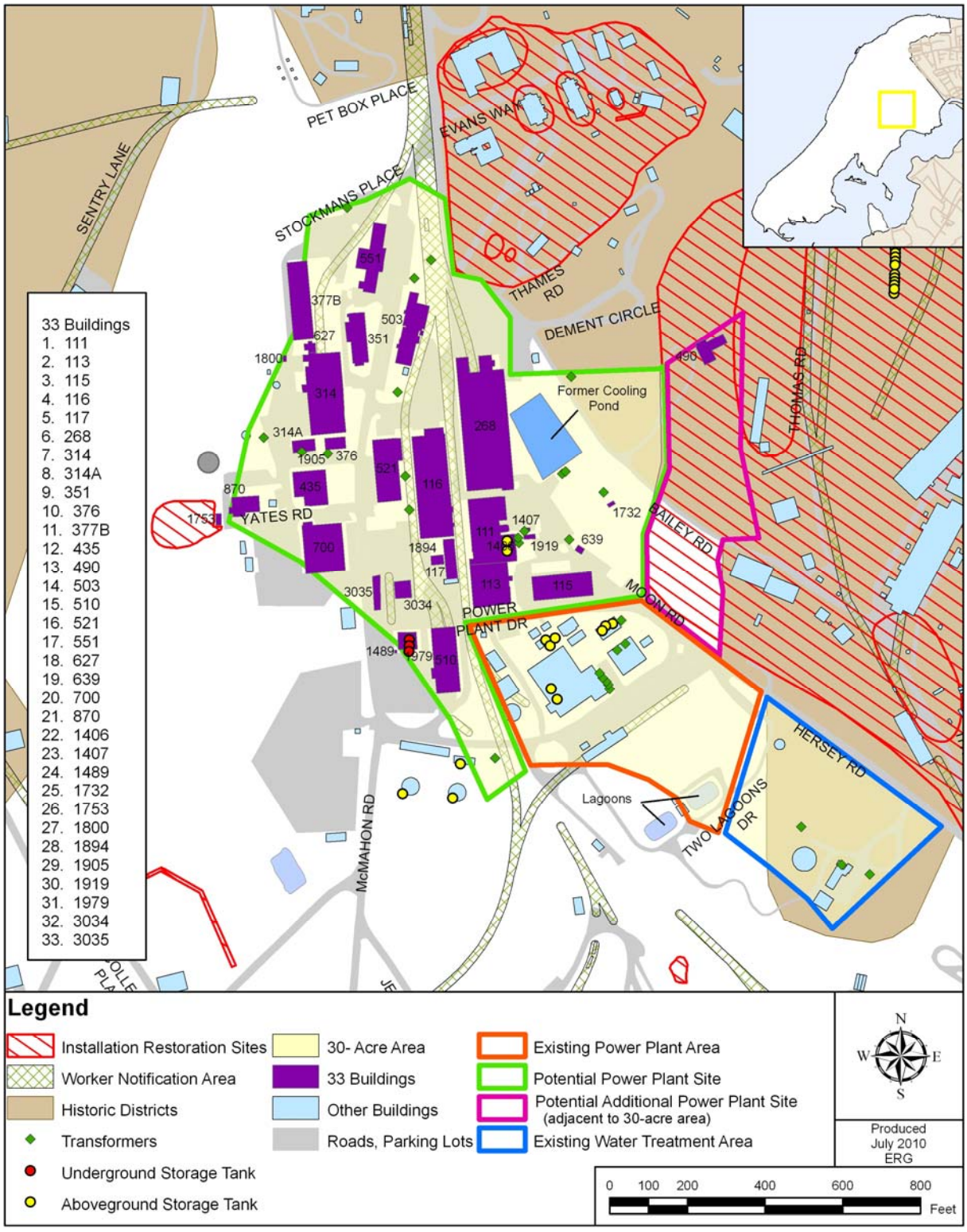

Figure 3: Environmental Constraints in Vicinity of Power Plant EUL Area

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Appendix B

BUILDING LIST, CURRENT AND HISTORICAL USE OF PROPERTY

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The land addressed in this survey is currently occupied by the Goddard Steam and Power Plant and its associated infrastructure (e.g., coal pile, transformer station, storage tank, and ash silo); NAVFAC Washington Public Works Department office space and shops facilities; potable water infrastructure; CBIRF storage and maintenance facilities; and associated parking areas.

The site of the Goddard Plant was formerly occupied by a coal storage facility (Building 371) that supported the original boiler house (Building 113). Immediately to the east of Building 268 is the site of a former cooling pond that supported the Goddard Plant and the original boiler house; this pond was demolished in 2005. Otherwise, the use of this land has not changed significantly since the Goddard Plant was constructed in the late 1950s.

Table B-1 lists the building number, name, prior use, and current use for the 33 buildings addressed in this survey.

Table B-1. Building Use

Building Number	Building Name	Prior Use	Current Use
111	PW OFFICES / SHOPS	Power House (1912-1967); PW Shop/Office (1967-current)	PW Office/ shops
113	PW SHOP - METAL	Boiler House (1909-1967); PW Shop-metal (1967-current)	PW Shop-Metal
115	PW SHOP - LINE CREW	Pipe & Blacksmith Shop (1912-1927); Storage shed (1927-1932); Storehouse (1932-1999); PW Shop (1999-current)	PW Shop-Emergency Services
116	REC-SHIP / FABRICATIONS	Storehouse (1909-1950); Receiving and Shipping Storehouse (1950-current)	Shipping and receiving, precision measurement, general storage, administrative space
117	STOREHOUSE - GENERAL	Store shed (1909-1912); Lumber Shed (1912-1932); Pipe and Bar metal shed (1932-1957); General Storehouse (1957-current)	General Storehouse
268	MACHINE / ELECTRONICS SHOP	Machine shop and Engineering office (1927-1950); Machine Pipe, Sheet Metal, and electrical shop (1950-1955); reconstruction (1955-1957); Machine Shops (1957-1999); Electronics/Machine Shop (1999-Current)	Electronics/Machine Shop
314	PW SHOPS	Carpenter Shop (1927-1979); PW Shop (1976-Current)	PW Shop
314A	PACKAGING LAB	Tool house (1932-1942) reconstruction; Reinforcing Steel Bending Shop (1947-1967); Public Works Shops (1967-1999); Packaging Lab (1999-current)	Packaging Lab
351	OFFICE BUILDING - PW	Carpenter Shop (1927-1932); Construction Office and Paint Shop (1932-1949); Public Works Office (1949-Current)	Office Building

Table B-1. Building Use

Building Number	Building Name	Prior Use	Current Use
376	STORAGE - ELECTRICAL	Lumber Storage Shed (1927-1936); Screen and Sash Storage (1936-1957); Paint Storehouse (1957-1999); Storehouse/Block Maintenance (1999-current)	Dry storage and maintenance building
377B	STORAGE - LUMBER / MISC	Lumber Storehouse (1947-current)	Storehouse- lumber and miscellaneous
435	ENGINEERING OFFICES BUILDING	Supply and Accounting Office (1942-1957); Supply and Comptroller Office (1957-1976); Engineering Office Building (1976-current)	Engineering Offices with a small electronic lab
490	ENGINEERING OFFICES BUILDING	Powder Line Office (1942-1961); R&D Engineering Office (1961-current)	Engineering Offices
503	OFFICE BUILDING - PW	Cafeteria and time office (1942-1961); Cafeteria and Public Works Office (1961-1999); Jerry's Subs and ROICC Office (1999-current)	Office building
510	RAILROAD / HEAVY EQUIP BLDG	New Car Barn (1942-1950); RR Engine house (1950-1976); RR and Heavy Equipment Building (1976-present)	Maintenance Building
521	CBIRF WAREHOUSE / ELEC SHOP	Oil and Metal Storage (1947-1957); General Storehouse (1957-1976); Storehouse/Electronic Shop (1967-current)	Warehouse and Electronic Shop
551	OFFICE BUILDING - PW	Laundry (1947-1950); Storehouse (1950-1957); Store house and ROINCC Office (1957-1067); PW ROINCC/Engineering Office (1967-1999); Facilities Engineering Office (1999-present)	Office Building
627	GENERAL STORAGE FACILITY	Lumber Checker's Office (1947-1957); Lumber Stockman's Office (1957-1999); Lumber Stock Office/Storage (1999-present)	Storage
639	METER HOUSE - FRESH	Valve and Meter house (1947-1957); Well water Meter house (1957-current)	Fresh water meter house
700	CBIRF VEHICLE MAINT SHOP	General Storehouse (1950-current)	Vehicle Maintenance
870	MAINTENANCE SHOP - SEABEE'S	Paint Shop (1955-1967); Public Works Shop (1967-1976); Public Works Paint Shop (1976-1999); Public Works Shop-Block Maintenance (1999-current)	Maintenance shop
1406	TRANSFORMER STATION	Transformer Station (1976-current)	Transformer station
1407	TRANSFORMER STATION	Transformer Station (1976-current)	Transformer station
1489	FILLING STATION	Filling Station (1976-current)	Filling station

Table B-1. Building Use

Building Number	Building Name	Prior Use	Current Use
1732	COOLING TOWER - WATER	Water Cooling Tower (1999-current)	Water cooling tower
1753	STORAGE SHED	Storage Shed (1989-present)	Storage shed
1800	STORAGE BOX - HAZ WST MAT	Storage Box-HAZMAT (1999-present)	HAZMAT Storage box
1894	STORAGE BUILDING-CHEMICALS	Storage Building – Chemicals (1999-present)	Storage Building - Chemicals
1905	TRANSFORMER STATION	Transformer Station (1999-current)	Transformer station
1919	REFRIG - RECOVER & RECYCLE	Refrigerant Recovery/Recycling (1999-current)	Transformer station
1979	FUEL TANK AREA	Fuel Tank Area (1999-present)	Fuel tank area with 3 USTs: Two 12,000-gal Gasoline USTs and one 12,000-gal Diesel UST
3034	VEHICLE WASHDOWN FACILITY		Vehicle Wash-down facility
3035	Loading Dock - Heavy Duty		Loading Dock

Adjacent Property

The property to the east and downgradient from the land addressed in this survey is primarily occupied by storage facilities that supported the Naval Powder Factory (e.g., cotton house, ether storage, alcohol storage). Most of these buildings were constructed prior to the end of World War II. Use of the property has not changed significantly since that time.

The property to the north and east of the land addressed in this survey is primarily occupied by laboratories, magazines, and offices that supported the Naval Powder Factory. Most of these buildings were constructed prior to the end of World War II and, in many cases, prior to World War I. Use of the property has not changed significantly since that time.

The property to the north and west of the land addressed in this survey is undeveloped (with the exception of the potable water tower immediately outside of the survey area) and is occupied by mature, deciduous forest. The topography slopes downward from the surveyed property into this adjacent area. Navy property records reviewed for this survey do not indicate any previous development in this area.

The property to the west and south of the land addressed in this survey is occupied by a motor transportation lot that supports CBIRF vehicles; two 500,000-gallon fuel oil storage tanks within containment dikes that support the Goddard Plant; and mature, deciduous forest. Prior to construction of the tanks and parking lot, this area is believed to have been undeveloped.

The area to the south and east of the land addressed in this survey is mostly undeveloped and occupied by mature, deciduous forest, but has been occupied historically by potable water infrastructure (e.g., pump house) and a sewage treatment plant.

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Appendix C

CONTAMINANTS

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The railroad tracks throughout the installation may have historically been treated with an herbicide containing arsenic. Based on previous sampling events near railroad tracks and fence lines, concentrations of arsenic in these areas range from non-detect to 377+ milligrams/kilogram (mg/kg) in surface and subsurface soil. The following 13 buildings that are adjacent or in close proximity to railroad tracks:

- 111;
- 113;
- 116;
- 117;
- 268;
- 314;
- 377B;
- 503;
- 510;
- 521;
- 551;
- 3034; and
- 3035.

Building 490 is located within Installation Restoration (IR) Site 24: Abandoned Drainlines. In various locations throughout the installation, there was a discharge of neutralized acid water and nitrocellulose (NC) white water to Mattawoman Creek from abandoned nitrocellulose production facilities. IR Site 24 is the site of potential NC contamination in abandoned drain lines from the former NC production facilities. Due to its explosive characteristics, NC deposits in abandoned drain lines may represent a greater threat to human safety than to the environment. Because some of the abandoned drain lines at this site are composed of terra cotta, they cannot be located with typical utility clearance equipment. IR Site 24 does not pose an environmental threat because NC is nearly insoluble in water and is not considered a contaminant of concern. A potential environmental risk does exist due to the possibility that diphenylamine, an NC production constituent, may be present within the abandoned drain lines. Leakage of diphenylamine could result in groundwater contamination. In April 2007, a Decision Document was signed recommending no further action for IR Site 24 (U.S. Navy, 2007).

Building 490 is also located within approximately 15 feet of IR Site 20: Single-Base Powder Facilities. This site was identified in the Initial Assessment Study (IAS) as having the potential for polychlorinated biphenyl (PCB) contamination due to leaks from transformer switches. However, the IAS recommended that a Confirmation Study not be performed for Site 20, and remediation was determined not to be required for this site. Additionally, a Decision Document signed in February, 2005 also determined no further action was required for the site (U.S. Navy, 2005).

Building 1753 is adjacent to IR Site 13: Paint Solvents Disposal Ground. It includes areas downslope of Building 870 (the Paint Shop) and Building 1753. The Paint Shop was constructed in 1953 and operated until 1999. It was used to paint various items by hand using aerosol sprays or paint spray booths. Solvents from these operations were disposed of behind Building 870. A study of the site determined that no further action is required for the site and it therefore does not pose a risk. (Ch2mHill, 2004).

30-Acre Area: There is potential contamination from the coal pile yard and coal pile treatment ponds. Coal is stored in the coal pile yard before it is burned in the Goddard Power Plant. Runoff from the coal pile is collected into a primary treatment pond (lagoon) that is used as a settling basin for precipitation of solids. The water is then treated with sodium hydroxide to bring the pH to approximately 7 before it is pumped to a second setting basin. The water is then pumped to the

Mattawoman Creek. The solids from the settling basins are pumped out approximately every 4-5 years and hauled away for off site disposal (Jenkins, 2010).

There could also be contamination from the burning of spent activated carbons with coal. NSF Indian Head holds a Controlled Hazardous Substance Permit A-223 under RCRA which permits mixing certain spent activated carbons with coal to be burned at the Goddard Power Plant. The spent carbons are Listed Hazardous Waste (K045) that is generated from filtering wastewaters containing explosives from specific processes. As part of the permit, the coal pile location where the spent activated carbons were added may require sampling to ensure no explosives contamination occurred, and remediation if necessary (Yeaton, 2010).

Also within the 30-acre area, there may be PCB contamination from the transformer storage yard. For the past 30 years, the yard stored new transformers prior to installation and, therefore, risk of contamination from leaks is not very high (Jenkins, 2010). However, historical records may be incomplete, and there is some potential for contamination as a result of leaks associated with transformers stored over 30 years ago.

Appendix D

HAZARDOUS MATERIALS

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Buildings 1489 and 1979 are the filling station and fuel tank area as part of a gasoline and diesel station for government vehicles on the installation. There are three USTs associated with Building 1979. Gasoline and diesel are stored and dispensed at this location. There is potential for contamination if the tanks or associated piping have leaked. The tanks have not had any records of leaks (Harrison, 2010). The demolition contractor is responsible for proper removal and disposal of the tanks and associated piping for the filling station and must coordinate with the Environmental Office Spill Prevention Control and Countermeasures Manager (Bobby Harrison).

Building 115 is a Public Works Department Shop. Between 1932 and 1999 it served as a storehouse for the power house. As a storehouse, there is potential that fly ash was stored there prior to proper disposal (Johnson, 2010). According to 29 CFR 1910, fly ash presents a potential health concern due to inhalation of silicon dioxide. Silicon dioxide is considered a hazardous chemical, therefore fly ash would also be considered hazardous.

Building 116 serves as shipping and receiving, precision measurement area, general storage, and administrative spaces. As part of the shipping and receiving, on occasion hazardous materials may come through the building. Packages stay at Building 116 no more than 2-3 days. They remain sealed in their containers before the intended recipient can pick them up. There is little to no risk of contamination (Thompson, 2010).

Hazardous Materials Inventory

The *Material Location Summary Listing for 2009 Reporting Year* was used to obtain a list of buildings currently storing hazardous materials. The inventory is on the following 14 pages. Only pages with relevant information for the EUL were included. The buildings of interest are highlighted in yellow. Many of these materials included common household cleaners and paints in small amounts.

Materials stored at Building 111 are used during shop operations. Many of the materials are in stored within the vehicles for personnel to use for repairs. Most materials are used up and anything left over is disposed of properly (McQuiston, 2010).

Building 113 has various materials that are used for shop operations. There have been no significant spills or leaks (Bledsoe, 2010).

Building 116 lists a can of primer paint.

Materials listed at Building 117 are stored there until they are used elsewhere. There is no evidence of spills or leaks (Fini, 2010).

Materials listed at Building 314 include paints and sealant for shop operations. There is no evidence of leaks and spills are cleaned up when they occur (McQuiston, 2010).

Buildings 503 and 521 list refrigerant materials. Refer to ODS section below.

Materials listed at Building 700 are used for vehicle maintenance (Atchison, 2010).

Materials stored at Building 1894 are stored until they are used elsewhere. There is no evidence of spills or leaks (Jenkins, 2010).

Building 1919 lists refrigerant materials. See ODS section below for more information.

These buildings were visually inspected for evidence of contamination resulting from hazardous materials storage and use. However, the buildings are currently still operational and therefore have equipment and personnel within them, making identification of contamination from hazardous material difficult. Although many of the hazardous materials listed are residential cleaners and paints in small quantities and building managers suggest there are no contamination concerns, inspections of the buildings are recommended after the equipment has been removed to identify any evidence of contamination (Carros, 2010).

ODS

Ozone Depleting Substances (ODS) can be found in HVAC units, chillers, refrigerators and smaller appliances across the installation (Hamm, 2010). Table D-1 below was compiled based on information from the *Material Location Summary Listing for 2009 Reporting Year, NAVFAC RCM Appliance Inventory,* and *NSWC RCM Appliance Inventory*. The table shows by building the appliance, refrigerant and charge (amount) of refrigerant. Not all ODS-containing equipment is included in this inventory. There is the potential for other ODS-containing equipment in all of the 33 buildings addressed in this study.

Table D-1. Buildings with Ozone Depleting Substances

Building Number	Building Name	Appliance	Refrigerant	Charge (pounds)
113	PW SHOP - METAL	Split System	R-22	Unknown
116	REC-SHIP / FABRICATIONS	Split System	R-22	Unknown
268	MACHINE / ELECTRONICS SHOP	Split System	R-22	56
351	OFFICE BUILDING – PW	Split System	R-22	20
435	ENGINEERING OFFICES BUILDING	DX 7.5 Ton	R-22	120
		DX 15 Ton	R-22	120
		DX 7.5 Ton	R-22	60
		DX 5 Ton	R-22	60
		DX 4 Ton	R-22	60
490	ENGINEERING OFFICES BUILDING	Split System	R-22	43
503	OFFICE BUILDING – PW	DX 15 Ton	R-22	60
521	CBIRF WAREHOUSE / ELEC SHOP	80 Ton Chiller	R-22	200
		Air cooled Chiller	R-22	50
1919	REFRIG - RECOVER & RECYCLE	N/A	R-134a	300 (max) [a]
		N/A	R-508b	30 (max) [a]
		N/A	R-23	60 (max) [a]
		N/A	R-414B	30 (max) [a]
		N/A	R-12 [b]	120 (max) [a]
		N/A	R-22 [c]	2,100 (max) [a]
		N/A	R-13[d]	60 (max) [a]

N/A – Not applicable.
a – The *Material Location Summary Listing for 2009 Reporting Year* lists both an average amount and a maximum. The maximum is listed here.
b – The *Material Location Summary Listing for 2009 Reporting Year* lists the refrigerant as Freon 12 which is another name for R-12.
c – The *Material Location Summary Listing for 2009 Reporting Year* lists the refrigerant as Freon 122 which is another name for R-22.
d – The *Material Location Summary Listing for 2009 Reporting Year* lists the refrigerant as Freon 13 which is another name for R-13.

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MATERIAL LOCATION SUMMARY LISTING FOR 2009 REPORTING YEAR

Location Code/ Product Code	Location Description/ Product Name	Grid Coord.	Confi-den-tial	Strg. C/P/T	Maximum Amount	Average Amount	Annual Usage	U o M	Days on-site
1091	1091 Magazine	F-20	Dept: @						
189	RDX		No	F14	1.0	1.0	0.0	LB	365
6506	HMX COATED WITH IDP		No	F14	7.0	7.0	0.0	LB	365
6506	HMX COATED WITH IDP		No	F14	5.0	5.0	0.0	LB	365
1095	1095 Magazine	W-41	Dept: @						
6506	HMX COATED WITH IDP		No	F14	1.0	1.0	0.0	LB	365
6506	HMX COATED WITH IDP		No	F14	1.0	1.0	0.0	LB	365
1097	1097 Magazine	W-42	Dept: @						
17549	HMX in Acetonitrile		No	F14	3.0	3.0	0.0	LB	365
189	RDX		No	F14	2.0	2.0	0.0	LB	365
189	RDX		No	F14	1.0	1.0	0.0	LB	365
1098	1098 Magazine	CC-40	Dept: @						
5707	PAX 2A		No	F14	1.0	1.0	0.0	LB	365
6505	TUNGSTEN DELAY COMPOSITION		No	F14	0.0	0.0	0.0	LB	365
662	MA 428 ADWELD EPOXY PART R		No	F14	2.0	2.0	0.0	LB	365
1099	1099 Magazine	CC-40	Dept: @						
11992	PROPELLANT SMOKELESS POWDER		No	F14	1.0	1.0	0.0	LB	365
11995	PROPELLANT SMOKELESS POWDER		No	K14	1.0	1.0	0.0	LB	365
11997	PROPELLANT SMOKELESS POWDER		No	F14	1.0	1.0	0.0	LB	365
2890	PROPELLANT HES 5250.207		No	F14	1.0	1.0	0.0	LB	365
5707	PAX 2A		No	F14	1.0	1.0	0.0	LB	365
595	PROPELLANT HI TEMP SMOKELESS		No	F14	1.0	1.0	0.0	LB	365
662	MA 428 ADWELD EPOXY PART R		No	F14	1.0	1.0	0.0	LB	365
1101	1101 Magazine	DD-40	Dept: @						
2982	ZPP IGNITION COMPOSITION		No	F14	0.0	0.0	0.0	LB	365
393	LEAD AZIDE		No	F14	3.0	3.0	0.0	LB	365
393	LEAD AZIDE		No	F14	0.0	0.0	0.0	LB	365
5517	DDNP; DIAZO		No	F14	0.0	0.0	0.0	LB	365
1102	1102 Magazine	DD-40	Dept: @						
189	RDX		No	F14	6.0	6.0	0.0	LB	365
189	RDX		No	F14	1.0	1.0	0.0	LB	365
111	111 PW Shops	S-54	Dept: NAVFAC						
11044	NO SWEAT PIPE INSULATION 770		No	F24	15o.0	50.0	15o.0	OZ	365
1148	5 MINUTE EPOXY HARDENER		No	F14	24o.0	96.0	14o.0	OZ	365
11786	MIL-L-25567D TYPE11		No	N14	17o.0	60.0	17o.0	OZ	365
12231	2 2 DINITRODIPHEYLAMINE		No	R14	43o.0	72.0	36o.0	OZ	365
1274	GO JO HAND CLEANER SKIN CARE		No	N14	36.0	4.0	32.0	GA	365
13961	ZAP O KLEEN		No	F24	30o.0	60.0	30o.0	OZ	365
14933	FISHERBRAND VACUUM PUMP OIL		No	F14	10.0	5.0	10.0	GA	365
15175	LIQUIFIED PETROLEUM GAS WITH		No	L24	32o.0	64.0	29o.0	OZ	365
15371	IMRON PRIMERS & ENAMELS		No	F24	58o.0	12o.0	52o.0	OZ	365

MATERIAL LOCATION SUMMARY LISTING FOR 2009 REPORTING YEAR

Location Code/ Product Code	Location Description/ Product Name	Grid Coord.	Confi-den-tial	Strg. C/P/T	Maximum Amount	Average Amount	Annual Usage	U o M	Days on-site
111	111 PW Shops	S-54	Dept: NAVFAC						
15615	EASY GOING RV ANTIFREEZE		No	N14	10.0	1.0	10.0	GA	365
1654	MINERAL SPIRITS		No	N14	16.0	2.0	16.0	GA	365
2234	STAY CLEAN SOLDERING FLUXES		No	F14	32.0	8.0	32.0	OZ	365
2713	TRI FLOW		No	F24	16o.0	48.0	16o.0	OZ	365
3007	CALCLEAN		No	N14	12.0	2.0	11.0	GA	365
308	LEAK LOCK		No	N14	72.0	18.0	54.0	OZ	365
3638	ANTIFREEZE AND SUMMER		No	N14	1.0	1.0	1.0	GA	365
4136	RTV 732 SEALANT - CLEAR		No	R14	18o.0	60.0	12o.0	OZ	365
4962	SIMPLE GREEN		No	N14	22.0	4.0	20.0	GA	365
5333	PRIMER 006 OATEY PURPLE		No	F14	96.0	32.0	96.0	OZ	365
5995	LIGHT OAK STAIN		No	D14	25.0	5.0	24.0	GA	365
6349	PROPANE CYLINDER		No	L24	96.0	32.0	96.0	OZ	365
6401	RENEWZ		No	N14	24.0	4.0	22.0	GA	365
6541	WD 40 AEROSOL		No	F24	77o.0	19o.0	67o.0	OZ	365
6919	PENETRATING OIL		No	F24	77o.0	72.0	71o.0	OZ	365
6931	WAG WHITE MULTI PURPOSE		No	F24	24o.0	60.0	18o.0	OZ	365
6961	PLASTI KLEEN PLASTIC PIPE		No	F14	32o.0	32.0	2,9oo.0	OZ	365
6996	STRIP ALL SOLVENT CLEANER		No	N14	24.0	4.0	22.0	GA	365
7005	COIL RITE		No	N14	24.0	4.0	22.0	GA	365
7425	ZEROL REFRIGERATION FLUID 150		No	F14	5.0	5.0	5.0	GA	365
7884	DECOAT BASEBOARD CLEANER &		No	F14	32o.0	32.0	29o.0	OZ	365
1119	1119 Twin Screw Extruder Bldg	BB-38	Dept: T23						
13154	Chlorodifluoromethane, HCFC-22, R-22		No	F24	27o.0	27o.0	0.0	LB	365
17925	PLGUW/Hf PLG/UW-13 w/Hafnium		No	F14	1.0	1.0	0.0	GA	365
1122	1122 Process Bldg - Explosives	BB-39	Dept: T21						
13154	Chlorodifluoromethane, HCFC-22, R-22		No	L24	1,1oo.0	1,1oo.0	0.0	LB	365
17842	Toluene, Technical		No	F14	20.0	13.0	15.0	GA	365
5190	NITROGEN		No	F24	40o.0	28o.0	1,3oo.0	LB	365
1123	1123 Equipment Building								
11718	MOBIL 600 W CYLINDER OIL		No	N14	10.0	3.0	0.0	GA	183
11739	BULK ANTIFREEZE PAR		No	D14	17o.0	17o.0	11o.0	GA	365
12985	SIGMA S320 S460 S680 S100 AIR		No	N14	20.0	15.0	0.0	GA	365
17008	MOBIL VACTRA OIL NO 4		No	D14	11o.0	28.0	11o.0	GA	183
5215	MONCOSOLVE 100		No	F14	5.0	1.0	10.0	GA	183
714	SPOTCHECK DEVELOPER SKD NF		No	F14	24o.0	60.0	0.0	G	183

MATERIAL LOCATION SUMMARY LISTING FOR 2009 REPORTING YEAR

Location Code/ Product Code	Location Description/ Product Name	Grid Coord.	Confi-den-tial	Strg. C/P/T	Maximum Amount	Average Amount	Annual Usage	U o M	Days on-site
1127	1127 Temperature Control	g20	Dept: T21						
13154	Chlorodifluoromethane, HCFC-22, R-22		No	L24	20o.0	20o.0	0.0	LB	365
113	113 PW Metal Shop	S-54	Dept: NAVFAC						
11895	INDUSTRIAL MAINTENANCE &		No	F24	24o.0	40.0	20o.0	OZ	365
12443	ZINC SELE COLD GALVANIZING		No	F24	23o.0	40.0	18o.0	OZ	365
15187	ALUMINUM ROOF COATING		No	F14	20o.0	25.0	20o.0	GA	365
1596	NITROGEN		No	L24	68o.0	28o.0	40o.0	CF	365
16581	PROMAR 200 INTERIOR LATEX SEMI		No	F24	24.0	12.0	24.0	OZ	365
1849	SPOTCHECK CLEANER REMOVER		No	F24	30.0	10.0	30.0	OZ	365
2008	ANTI SEIZE LUBRICANT AEROSOL		No	F24	20o.0	20.0	20o.0	OZ	365
3706	ARGON		No	L24	1,8oo.0	60o.0	1,2oo.0	CF	365
4136	RTV 732 SEALANT - CLEAR		No	R14	40o.0	40.0	40o.0	OZ	365
4266	SEABOARD ASPHALT FOUNDATION		No	F14	30o.0	30.0	30o.0	GA	365
4385	SPOTCHECK DEVELOPER SKD S2		No	F24	20.0	10.0	20.0	OZ	365
5193	OXYGEN		No	L24	2,6oo.0	80o.0	2,2oo.0	CF	365
5194	ACETYLENE		No	L24	2,5oo.0	60o.0	2,0oo.0	CF	365
6546	SPOCHECK PENETRANT SKL SP		No	F24	30.0	10.0	30.0	OZ	365
6653	DYKEM STEEL BLUE DX 100		No	F24	12.0	12.0	12.0	OZ	365
6827	CLIPPERSHIP PLASTIC ROOF		No	F14	20o.0	20.0	20o.0	GA	365
6919	PENETRATING OIL		No	F24	25o.0	20.0	23o.0	OZ	365
7090	SEABOARD ASPHALT ROOF		No	R14	20o.0	20.0	20o.0	OZ	365
7138	TT-P-115F TYPE I YELLOW PAINT		No	F14	5.0	1.0	4.0	GA	365
7891	CARBON DIOXIDE		No	L24	50.0	50.0	0.0	LB	365
1131	1131 Magazine	GG-40	Dept: @						
13985	PBXN 9		No	F14	4.0	4.0	0.0	LB	365
13985	PBXN 9		No	F14	1.0	1.0	0.0	LB	365
13992	NTO; 3-Nitro-1,2,4-Triazol-5-One		No	F14	19.0	19.0	0.0	LB	365
17549	HMX in Acetonitrile		No	F14	2.0	2.0	0.0	LB	365
189	RDX		No	F14	1.0	1.0	0.0	LB	365
189	RDX		No	F14	4.0	4.0	0.0	LB	365
189	RDX		No	K14	4.0	4.0	0.0	LB	365
189	RDX		No	F14	1.0	1.0	0.0	LB	365
2625	PBXN 5 ALL TYPES AND CLASSES		No	F14	1.0	1.0	0.0	LB	365
2625	PBXN 5 ALL TYPES AND CLASSES		No	F14	2.0	2.0	0.0	LB	365
4416	DETASHEET		No	F14	1.0	1.0	0.0	LB	365
595	PROPELLANT HI TEMP SMOKELESS		No	F14	1.0	1.0	0.0	LB	365
607	PROPELLANT GUN POWDER		No	F14	1.0	1.0	0.0	LB	365
6297	PENTOLITE 50/50		No	K14	1.0	1.0	0.0	LB	365
6506	HMX COATED WITH IDP		No	F14	1.0	1.0	0.0	LB	365
820	TMETN METRIOL TRINITRATE		No	F14	1.0	1.0	0.0	LB	365
M30	Propellant M30		No	F14	1.0	1.0	0.0	LB	365

MATERIAL LOCATION SUMMARY LISTING FOR 2009 REPORTING YEAR

Location Code/ Product Code	Location Description/ Product Name	Grid Coord.	Confi-den-tial	Strg. C/P/T	Maximum Amount	Average Amount	Annual Usage	U o M	Days on-site
1134	1134 Missile Tmg/Rework/Fab	FF-32	Dept: T21						
367	AEROKROIL		No	F24	16.0	4.0	16.0	OZ	183
3782	CLEANERS WATER BASED W4K263		No	N14	1.0	1.0	0.0	GA	365
3905	FLOWAY AEROSOL		No	F24	13.0	13.0	0.0	OZ	365
3925	DOW CORNING 738 ELECTRICAL		No	N14	8.0	8.0	8.0	LB	365
415	SO SURE STENCIL INK BLACK 37038		No	F24	1,3oo.0	37o.0	22o.0	OZ	183
4216	BUTANONE		No	M14	25o.0	63.0	25o.0	ML	183
691	SCOTCHGRIP 1357 HIGH		No	F14	5.0	4.0	65.0	GA	365
7309	POLISH METAL		No	N14	48.0	48.0	0.0	OZ	365
1137	1137 Magazine	AA-45	Dept: @						
18319	OSX-CAN Type II; IMX-101		No	F14	2.0	2.0	0.0	LB	365
5800	NITRANOL		No	F14	1.0	1.0	0.0	LB	365
827	TUNGSTEN METAL POWDER		No	F14	1.0	1.0	0.0	LB	365
1140	1140 Radiographic Accelerator	LL-33	Dept: T343						
17824	G-335C Industrial X-Ray Fixer Part A		No	N14	11.0	3.0	16o.0	GA	365
116	116 Receiving/Shipping	R-54	Dept: SUPPLY						
11704	PRIMER T7471 AEROSOL		No	F14	36.0	36.0	0.0	OZ	365
117	117 Storehouse - General	S-54	Dept: SUPPLY						
10728	GUANIDINE HYDROCHLORIDE		No	N14	10o.0	10o.0	0.0	KG	365
11039	RAVEN 1000 1030 1020 1200 1250		No	J14	25.0	25.0	0.0	LB	365
11071	POTASSIUM CARBONATE		No	N14	3.0	3.0	0.0	LB	365
1199	MEDIUM 50 INDUSTRIAL		No	J14	15o.0	15o.0	0.0	LB	365
12437	GLYPTAL RED INSULATING ENAMEL		No	N14	1,4oo.0	1,4oo.0	0.0	LB	365
1454	MAPICO YELLOW 1000		No	J14	20o.0	20o.0	0.0	LB	365
1459	CATA CHEK 860		No	F14	50.0	50.0	0.0	LB	365
1593	COPPERAS RED IRON OXIDE		No	J14	10o.0	10o.0	0.0	LB	365
1593	COPPERAS RED IRON OXIDE		No	J14	10o.0	10o.0	0.0	LB	365
1593	COPPERAS RED IRON OXIDE		No	J14	2,9oo.0	2,9oo.0	0.0	LB	365
1626	DABCO T 12 CATALYST		No	N14	18.0	18.0	0.0	LB	365
1689	HYDRATED ALUMINA		No	J14	30o.0	30o.0	0.0	LB	365
2194	FERRIC IRON ACETYLACETONATE		No	I14	10o.0	10o.0	0.0	LB	365
289	ETHANOX 702 ANTIOXIDANT		No	N14	38o.0	38o.0	0.0	LB	365
3388	TITANIUM DIOXIDE		No	N14	15o.0	15o.0	0.0	LB	365
4	ACETALDEHYDE		No	N14	35o.0	35o.0	0.0	LB	365
4222	DISODIUM PHOSPHATE		No	J14	70o.0	70o.0	0.0	LB	365
442	METHOCEL R A15 LV PREMIUM		No	J14	95o.0	95o.0	0.0	LB	365
4598	SODIUM BICARBONATE		No	J14	1,0oo.0	1,0oo.0	0.0	LB	365
62	ANTIOXIDANT 2246 POWDER		No	K14	1,9oo.0	1,9oo.0	0.0	LB	365
6433	DOW CORNING AF EMULSION FOOD		No	N14	12o.0	12o.0	0.0	LB	365
6518	RED IRON OXIDE RY 2096		No	J14	2,5oo.0	2,5oo.0	0.0	LB	365
7102	THERMAX N990 N907 STAINLESS		No	N14	70o.0	70o.0	0.0	LB	365
7582	METHYLENE CHLORIDE		No	N14	40.0	40.0	0.0	GA	365

MATERIAL LOCATION SUMMARY LISTING FOR 2009 REPORTING YEAR

Location Code/ Product Code	Location Description/ Product Name	Grid Coord.	Confi-den-tial	Strg. C/P/T	Maximum Amount	Average Amount	Annual Usage	U o M	Days on-site
117	117 Storehouse - General	S-54	Dept: SUPPLY						
778	THERMAX - ALL GRADES		No	J14	90o.0	90o.0	0.0	LB	365
7810	DPA		No	K14	10o.0	10o.0	0.0	LB	365
1176	1176 Storage Bldg	AA-37	Dept: T21						
1121	PELADOW PELLETEX		No	J14	10o.0	50.0	10o.0	LB	365
1680	POTASSIUM SULFATE		No	J14	1,0oo.0	50o.0	1,0oo.0	LB	365
1182	1182 M-B Components Bldg	Y-41	Dept: T21						
11622	MOLYKOTE 33 EXTREME LOW TEMP		No	N14	14.0	4.0	0.0	OZ	183
1249	TELUS OIL 33		No	F14	5.0	5.0	0.0	GA	365
13154	Chlorodifluoromethane, HCFC-22, R-22		No	F24	60.0	60.0	0.0	LB	365
14509	KEROSENE		No	M14	1.0	1.0	0.0	GA	365
14582	VCI 388		No	F24	20.0	5.0	0.0	OZ	183
14582	VCI 388		No	F14	5.0	1.0	0.0	GA	183
15424	PARATHERM NF		No	F14	2.0	1.0	0.0	GA	183
16027	PRESTONE ANTIFREEZE COOLANT		No	N14	2.0	1.0	0.0	GA	183
16712	Kinney AX Oil		No	N14	1.0	1.0	0.9	GA	365
16715	GASOLINE REGULAR UNLEADED		No	M14	1.0	1.0	0.0	GA	365
16958	CONTACT CLEANER AEROSOL		No	N14	5.0	1.0	0.0	OZ	183
17030	AIR TOOL OIL		No	N14	1.0	0.0	0.0	QT	183
17513	Tech 2000 Windshield Wash -25F;		No	N14	1.0	1.0	0.0	GA	183
17842	Toluene, Technical		No	F14	10.0	10.0	0.0	GA	365
17963	IPA Isopropyl Alcohol		No	F14	7.0	7.0	0.0	GA	365
2041	TEFLON 7C		No	N14	50o.0	50o.0	0.0	G	365
2713	TRI FLOW		No	F24	12.0	3.0	0.0	OZ	183
3924	DOW CORNING HIGH VACUUM		No	N14	6.0	2.0	0.0	OZ	183
5190	NITROGEN		No	F24	30.0	30.0	30.0	LB	365
5215	MONCOSOLVE 100		No	M14	1.0	1.0	0.0	GA	365
5216	MONCOSOLVE 210		No	M14	1.0	1.0	0.0	GA	365
5216	MONCOSOLVE 210		No	N14	1.0	1.0	0.0	QT	365
5295	ANTI SEIZE THREAD COMPOUND		No	N14	1.0	0.0	0.0	LB	183
6	ACETONE		No	F14	10.0	3.0	0.0	GA	183
6514	ANCHOR DNPD		No	F24	30.0	8.0	6.0	OZ	183
6696	SPRUCE GENERAL USE AND		No	F24	11o.0	28.0	0.0	OZ	183
6862	ROUNDUP L&G HERBICIDE READY		No	N14	0.5	0.0	0.5	GA	183
754	CASTROL GTX SUPER MULTIGRADE		No	N14	2.0	1.0	0.0	QT	183

MATERIAL LOCATION SUMMARY LISTING FOR 2009 REPORTING YEAR

Location Code/ Product Code	Location Description/ Product Name	Grid Coord.	Confi-den-tial	Strg. C/P/T	Maximum Amount	Average Amount	Annual Usage	U o M	Days on-site
1892	1892 Storage/Office Bldg	M-52	Dept: E322						
1274	GO JO HAND CLEANER SKIN CARE		No	F14	3.0	0.0	0.0	GA	365
14954	GOOF OFF		No	F14	32.0	32.0	0.0	OZ	365
15513	TRI FLO LUBRICANT AEROSOL		No	F14	24.0	24.0	0.0	OZ	365
15520	SMOKE GRAY AEROSOL		No	F24	48.0	48.0	0.0	OZ	365
16728	KRYLON INTERIOR EXTERIOR PAINT		No	F14	48.0	48.0	0.0	OZ	365
16731	OOPS ALL PURPOSE REMOVER		No	F14	2.0	2.0	0.0	PT	365
17194	PERMATEX ANTI SEIZE LUBRICANT		No	N14	16.0	0.0	0.8	OZ	365
17201	PB PENETRATING CATALYST		No	N14	14o.0	0.0	0.1	OZ	365
17253	WOW		No	N14	5.0	0.0	0.5	GA	365
367	AEROKROIL		No	M14	12o.0	0.0	0.1	OZ	365
6652	STATIC FREE		No	F14	64.0	64.0	0.0	OZ	365
7270	ETHANOL PURE 190 PROOF		No	M14	12.0	12.0	12.0	PT	365
7271	ETHANOL 200 PROOF		No	M14	48.0	1.0	40.0	PT	365
1894	1894 Storage Bldg - Chemicals	S-54	Dept: SUPPLY						
14666	HYDROCHLORIC ACID		No	M14	14o.0	14o.0	0.0	L	365
16472	OIL OF VITROIL; BABCOCK ACID;		No	M14	22.0	22.0	0.0	L	365
16523	NITRIC ACID REAGENT ACS		No	M14	24o.0	24o.0	0.0	LB	365
16793	CALCLEAN		No	N14	36.0	36.0	0.0	GA	365
16793	CALCLEAN		No	N14	5.0	5.0	0.0	GA	365
17566	Hydrogen Peroxide 20-40%		No	M14	17,ooo.0	17,ooo.0	0.0	ML	365
1978	KODAK INDUSTREX FIXER AND		No	N14	83.0	83.0	0.0	GA	365
2127	KODAK INDUSTREX DEVELOPER		No	N14	26o.0	26o.0	0.0	OZ	365
3533	KODAK GBX FIXER AND		No	M14	32.0	32.0	0.0	GA	365
3535	KODAK GBX DEVELOPER AND		No	M14	20.0	20.0	0.0	GA	365
6401	RENEWZ		No	N14	11.0	11.0	0.0	GA	365
6606	SEXAUER MULE KICK LIQUID ACID		No	N14	59.0	59.0	0.0	GA	365
7006	CON COIL		No	N14	6.0	6.0	0.0	GA	365
1901	Child Development Center	D-59	Dept: MWR						
11181	ZEP FS ANTIMICROBIAL HAND CLNR		No	J14	19,ooo.0	9,6oo.0	58,ooo.0	ML	365
15108	ZEP CHLORINE BLEACH		No	N14	24.0	18.0	43o.0	QT	365
6457	SOLID POWER		No	N14	9.0	1.0	18.0	LB	365
90001	Jet Dry		No	N14	1.0	1.0	12.0	GA	365
90007	Zep Calcium, Lime & Rust Stain		No	N14	4.0	2.0	4.0	GA	365
90010	Zep Oven and Grill Cleaner		No	N14	5.0	5.0	5.0	GA	365
90041	Rocky Mountain Sunscreen Suntan		No	N14	13o.0	13o.0	29o.0	OZ	365
90042	Zep Vanito Laundry Detergent		No	I14	55.0	55.0	55.0	GA	365
90043	Zep Oven Brite		No	N14	64.0	64.0	64.0	OZ	365
90044	Cleanforce Quat Sanitizer		No	J14	7.5	5.0	5.0	GA	365
90045	Ecolab Keystone Blue Ultra Pot & Pan		No	J14	7.5	5.0	5.0	GA	365

MATERIAL LOCATION SUMMARY LISTING FOR 2009 REPORTING YEAR

Location Code/ Product Code	Location Description/ Product Name	Grid Coord.	Confi-den-tial	Strg. C/P/T	Maximum Amount	Average Amount	Annual Usage	U o M	Days on-site
1913	1913 CAD/PAD Manufacture	O-58	Dept: T22						
8144	POLYAMIDE, COMP A, MIL-P-53030		No	F14	24.0	24.0	0.0	QT	365
8145	EPOXY COMP B MIL-P-53030		No	F14	23.0	23.0	0.0	QT	365
8334	SPRAY GLO FLUORESCENT		No	F24	32o.0	31o.0	30o.0	OZ	365
8358	LOCTITE 242 THREADLOCKER		No	R14	10.0	10.0	10.0	OZ	365
837	VERSAMID 125		No	F14	1.0	1.0	1.0	GA	365
837	VERSAMID 125		No	N14	2.0	2.0	0.0	GA	365
868	ZINC CHROMATE YELLOW		No	F24	12.0	12.0	11.0	OZ	365
868	ZINC CHROMATE YELLOW		No	F14	1.0	1.0	1.0	PT	365
930	1200 PRIME COAT ALL COLORS		No	R14	40o.0	40o.0	40o.0	ML	365
989	GLYPTAL 1201 RED ENAMEL		No	F14	1.0	1.0	0.0	QT	365
1919	1919 Refrigerant recovery	S-54	Dept: NAVFAC						
1061	FREON 12		No	L24	60.0	60.0	0.0	LB	365
1061	FREON 12		No	L24	60.0	30.0	60.0	LB	365
15248	GENETRON HP 62; HCFC-134a		No	L24	30o.0	60.0	30o.0	LB	365
1794	2 PROPANOL		No	L24	30.0	30.0	30.0	LB	365
17987	Refrigerant 508B; Trifluoromethane,		No	L24	30.0	30.0	0.0	LB	365
17989	Trifluoromethane (Halocarbon R-23)		No	L24	60.0	30.0	30.0	LB	365
18210	HOT SHOT (R-414B) Refrigerant		No	L24	30.0	30.0	30.0	LB	365
3919	FREON 22		No	L24	2,1oo.0	30o.0	1,8oo.0	LB	365
5096	ORANGE ACTION WATER BASED		No	L24	90o.0	30o.0	0.0	LB	365
982	FREON 13		No	L24	60.0	30.0	30.0	LB	365
1924	1924 Solid Waste Treatment	T-62	Dept: T21						
12933	PELADOW PREMIER SNOW AND ICE		No	I14	1.0	0.5	1.0	LB	183
6428	GOJO ORIGINAL FORMULA HEAVY		No	N14	1.0	0.5	1.0	GA	183
193	193 Public Works - HVAC Shop	N32	Dept: NAVFAC						
13154	Chlorodifluoromethane, HCFC-22, R-22		No	L24	30o.0	30o.0	0.0	LB	365
1934	ETF Magazine - Inert	BB-42	Dept: @						
17604	PETN; Tentaerythritol Tetranitrate		No	F14	0.1	0.1	0.0	LB	365
17604	PETN; Tentaerythritol Tetranitrate		No	F14	0.1	0.1	0.0	LB	365
2625	PBXN 5 ALL TYPES AND CLASSES		No	F14	0.0	0.0	0.0	LB	365
4416	DETASHEET		No	F14	1.0	1.0	0.0	LB	365
1977	1977 Fuel Vault	T-62	Dept: T21						
4759	DIESEL FUEL CONDITIONER 6AA A B		No	A14	2,2oo.0	1,4oo.0	5,7oo.0	GA	365
20	20 Base Command/Headquarters	G36	Dept: COMMAND						
13154	Chlorodifluoromethane, HCFC-22, R-22		No	L24	12o.0	12o.0	0.0	LB	365

MATERIAL LOCATION SUMMARY LISTING FOR 2009 REPORTING YEAR

Location Code/ Product Code	Location Description/ Product Name	Grid Coord.	Confi-den-tial	Strg. C/P/T	Maximum Amount	Average Amount	Annual Usage	U o M	Days on-site
263	263 Storehouse - General	L-51	Dept: SUPPLY						
1027	POLY BD R 45M RESIN		No	D14	14,000.0	14,000.0	0.0	LB	365
11039	RAVEN 1000 1030 1020 1200 1250		No	D14	3,600.0	3,600.0	0.0	LB	365
12069	TRIMETHYLOLETHANE		No	J14	86,000.0	86,000.0	0.0	LB	365
12643	DIBUTYL SEBACATE DBS		No	D14	1,600.0	1,600.0	0.0	LB	365
138	HYCAR CTBN CTBNX POLYMERS		No	D14	2,000.0	2,000.0	0.0	LB	365
16182	ELBA SOLVENT		No	D14	5,900.0	5,900.0	0.0	LB	365
16514	EMERY 2911 SYNTHETIC		No	D14	400.0	400.0	0.0	LB	365
16741	ZEO ZEODENT ZEOFREE ZEOSYL		No	J14	100.0	100.0	0.0	LB	365
17043	1 2 4 BUTANETRIOL 97%		No	D14	880.0	880.0	0.0	LB	365
17044	BITUMINOUS COAL BASED		No	D14	29,000.0	29,000.0	0.0	GA	365
17154	EASTMAN ETHYL ACETATE		No	D14	440.0	440.0	0.0	GA	365
17275	PX238 DIOCTYL ADIPATE		No	D14	2,900.0	2,900.0	0.0	LB	365
17812	2-Nitrodiphenylamine; 2-NDPA		No	E14	14,000.0	14,000.0	0.0	LB	365
18273	Hexyl Hydride; Norman Hexane		No	D14	2,300.0	2,300.0	0.0	GA	365
18374	Tech Kleen STNPB Stabilized N Propyl		No	D14	7,000.0	7,000.0	0.0	LB	365
18396	Thermite Mixture; Aluminum, Silicon		No	J14	140,000.0	140,000.0	0.0	LB	365
2690	METERPAK 118		No	I14	2,000.0	2,000.0	0.0	LB	365
303	CLAY; BONDING CLAY; FIRECLAY;		No	J14	450.0	450.0	0.0	LB	365
3222	POLY BD R 45M RESIN		No	D14	7,800.0	7,800.0	0.0	LB	365
3223	PRECIPIRATED CALCIUM		No	J14	850.0	850.0	0.0	LB	365
325	HYCAR NITRILE LATEX 1552 1561		No	D14	1,600.0	1,600.0	0.0	LB	365
327	N HEPTANE PURE GRADE		No	D14	310.0	310.0	0.0	LB	365
334	60 PALE PROCESS OIL		No	D14	750.0	750.0	0.0	GA	365
4801	POTASSIUM CHLORIDE		No	I14	3,800.0	3,800.0	0.0	LB	365
4958	ETHYL ACETATE 99%		No	D14	820.0	820.0	0.0	LB	365
497	GLYCERYL TRIACETATE		No	D14	720.0	720.0	0.0	LB	365
5297	2 2 DINITROPROPANOL IN 1 2		No	D14	240.0	240.0	0.0	LB	365
5786	ETHANOL USP 190 PROOF		No	D14	330.0	330.0	0.0	LB	365
5786	ETHANOL USP 190 PROOF		No	D14	170.0	170.0	0.0	LB	365
642	RESORCINOL TECHNICAL GRADE		No	I14	440.0	440.0	0.0	LB	365
6735	SHIP SHAPE RESIN CLEANER		No	D14	110.0	110.0	0.0	GA	365
6773	PBNA		No	D14	2,300.0	2,300.0	0.0	LB	365
7762	HYCAR NITRILE LATEX 1572 1572X64		No	K14	13,000.0	13,000.0	0.0	LB	365
7989	70601 ACETONE		No	D14	430.0	430.0	0.0	GA	365
264	264 Storehouse - General	L-51	Dept: SUPPLY						
12790	GLYCERINE USP 99.5%		No	D14	4,000.0	4,000.0	0.0	LB	365
14181	CHLORODIFLUOROMETHANE		No	L24	4,400.0	4,400.0	0.0	LB	365
823	LIME CREST; GUIDE LINE; FIELD		No	J14	6,100.0	6,100.0	0.0	LB	365
268	268 Electronics/Machine	R-54	Dept: T342						
11771	TAP MAGIC PROTAP CUTTING FLUID		No	F14	10.0	10.0	0.0	OZ	365
11936	Pennzoil TTM EP Grease 302		No	D14	12.0	12.0	0.0	GA	365
1248	TAPMATIC CUTTING FLUID NO 2		No	F14	20.0	20.0	0.0	OZ	365
13824	BLASOCUT 2000 UNIVERSAL		No	D14	40.0	40.0	0.0	GA	365

MATERIAL LOCATION SUMMARY LISTING FOR 2009 REPORTING YEAR

Location Code/ Product Code	Location Description/ Product Name	Grid Coord.	Confi-den-tial	Strg. C/P/T	Maximum Amount	Average Amount	Annual Usage	U o M	Days on-site
268	268 Electronics/Machine	R-54	Dept: T342						
13911	FOSTER 30 36		No	N14	20.0	20.0	0.0	LB	365
13920	DRYDENE WORM GEAR		No	R14	11o.0	11o.0	33.0	OZ	365
14531	PENNZBELL AW HYDRAULIC OIL ALL		No	E14	3.5	3.5	0.0	GA	365
15594	ECCOBOND 286 PART B WHITE		No	F14	1.0	1.0	0.0	GA	365
15595	ECCOBOND 286 PART A WHITE		No	F14	1.0	1.0	0.0	GA	365
16063	CLEAR INSUL SPRAY 15 OZ NW		No	F24	18o.0	90.0	90.0	OZ	365
16170	DOW CORNING 7 RELEASE		No	N14	5.0	5.0	0.0	LB	365
1622	DOWTHERM SR1 HEAT TRANSFER		No	E14	55.0	55.0	0.0	GA	365
16238	TAP MAGIC FORMULA 2 ECO OIL		No	F14	35o.0	35o.0	0.0	OZ	365
16321	CASTROL WAY LUBRICANT GRADES		No	E14	2.0	2.0	0.0	GA	365
16540	REMOVER AND CLEANER		No	N14	24.0	24.0	0.0	OZ	365
1660	SKL HF S SPOTCHECK PENETRANT		No	F24	72.0	60.0	24.0	OZ	365
1686	DRYDENE HYDRAULIC JACK OIL		No	E14	2.5	2.5	0.5	GA	365
1849	SPOTCHECK CLEANER REMOVER		No	F24	17o.0	17o.0	70.0	OZ	365
1930	FC 431 FLUORAD BRAND COATING		No	F14	10.0	10.0	0.0	OZ	365
2340	ACETONE		No	F14	11.0	11.0	9.0	OZ	365
3395	GREASE 81EP 2		No	E14	5.0	5.0	0.0	GA	365
3603	740 HEAVY DUTY RUST GUARD		No	E14	5.0	5.0	0.0	LB	365
3627	ZL 22A ZYGLO PENETRANT		No	F24	14o.0	72.0	96.0	OZ	365
3707	PENZOIL MULTIPURPOSE GEAR		No	E14	5.0	5.0	0.0	GA	365
3839	GREASE WATER PUMP 00943		No	F14	5.0	5.0	0.0	LB	365
429	WD 40 BULK LIQUID		No	F14	4.0	4.0	0.0	GA	365
4319	00985 CRATER O		No	F14	5.0	5.0	0.0	GA	365
4385	SPOTCHECK DEVELOPER SKD S2		No	F24	2,0oo.0	99o.0	66o.0	G	365
4385	SPOTCHECK DEVELOPER SKD S2		No	N14	24.0	24.0	0.0	OZ	365
4495	NICKEL ANTI SEIZE LUBRICANT		No	F24	12.0	12.0	0.0	OZ	365
4499	TAP MAGIC CUTTING FLUID		No	F14	12.0	12.0	0.0	OZ	365
4588	DEEP WOODS OFF INSPECT		No	F14	2.0	2.0	0.0	GA	365
4962	SIMPLE GREEN		No	F14	6.0	6.0	0.0	OZ	365
5281	DRYDEN WAY LUBRICANT GRADES		No	E14	0.5	0.5	0.0	GA	365
574	SILICA FILLED		No	F14	5.0	5.0	0.0	LB	365
6537	DYKEM LAYOUT RED DX 296		No	N14	24.0	24.0	0.0	OZ	365
6541	WD 40 AEROSOL		No	E24	48.0	48.0	27o.0	OZ	365
6546	SPOCHECK PENETRANT SKL SP		No	F24	5,8oo.0	2,4oo.0	2,2oo.0	G	365
6546	SPOCHECK PENETRANT SKL SP		No	F24	29o.0	14o.0	84.0	OZ	365
6653	DYKEM STEEL BLUE DX 100		No	N14	8.0	8.0	2.0	OZ	365
714	SPOTCHECK DEVELOPER SKD NF		No	F14	3.0	3.0	0.0	GA	365
7423	TAP MAGIC ORIGINAL CUTTING		No	F14	14.0	14.0	0.0	OZ	365
770	TAPFREE		No	F14	14.0	14.0	0.0	OZ	365

MATERIAL LOCATION SUMMARY LISTING FOR 2009 REPORTING YEAR

Location Code/ Product Code	Location Description/ Product Name	Grid Coord.	Confi-den-tial	Strg. C/P/T	Maximum Amount	Average Amount	Annual Usage	U o M	Days on-site
302	302 Office Building								
6755	EPK 0151 RESIN		No	K14	1.0	1.0	0.0	OZ	365
6814	3M BRAND SPRAY 80 NEOPRENE		No	F24	1.0	1.0	0.0	OZ	365
7028	DERUSTO RPE SPRAY GRADE 756		No	F24	1.0	1.0	0.0	OZ	365
7028	DERUSTO RPE SPRAY GRADE 756		No	F14	1.0	1.0	0.0	OZ	365
7462	DEICER DEFROSTING FLUID		No	F24	1.0	1.0	0.0	OZ	365
7466	WBBM 55 SHREDDER OIL		No	M14	12.0	12.0	0.0	PT	365
768	TAK PAK 444 ADHESIVE 12292 12294		No	M14	2.0	2.0	2.5	OZ	365
8011	DE OX ID		No	F24	2.0	2.0	0.0	OZ	365
8170	NS SAFETY SOLVENT AEROSOL		No	F24	3.0	3.0	16.0	OZ	365
8170	NS SAFETY SOLVENT AEROSOL		No	F24	2.0	2.0	0.0	OZ	365
8170	NS SAFETY SOLVENT AEROSOL		No	F14	2.0	2.0	16.0	OZ	365
8235	ELMERS SLIDE ALL		No	F24	1.0	1.0	0.0	OZ	365
8243	CONATHANE EN 9 PART A		No	F14	4.0	4.0	0.0	QT	365
8244	CONATHANE EN 9 PART B		No	F14	3.0	3.0	0.0	PT	365
9061	CRC 3-36 SPRAY		No	F14	1.0	1.0	0.0	PT	365
989	GLYPTAL 1201 RED ENAMEL		No	F14	1.0	1.0	0.0	QT	365
302D1	302 Office Bldg	N-54	Dept: E315						
13154	Chlorodifluoromethane, HCFC-22, R-22		No	L24	50.0	50.0	0.0	LB	365
3108	3108 Storage Building	JJ-35							
13915	WOOD FLOUR		No	J14	11.0	7.0	7.3	LB	365
16145	DOW CORNING 200 FLUID 1 CST		No	N14	15.0	4.0	0.0	GA	183
2085	GASOLINE 00365 TEXACO		No	F14	3.0	3.0	0.0	GA	365
314	314 Carpenter Shop	R-53	Dept: NAVFAC						
11506	BR 304 OLIGOMER		No	R14	48o.0	30.0	42o.0	OZ	365
11530	DPA ULTRA FLAKE		No	F14	27.0	9.0	27.0	GA	365
12448	SILICONE		No	F14	3.0	1.0	3.0	GA	365
12998	ACE RUST STOP MEDIUM GRAY		No	F14	3.0	2.0	3.0	GA	365
13876	COTE ALL MULTIPURPOSE ENAMEL		No	F14	20.0	2.0	20.0	GA	365
13876	COTE ALL MULTIPURPOSE ENAMEL		No	F24	12o.0	40.0	80.0	OZ	365
13876	COTE ALL MULTIPURPOSE ENAMEL		No	F14	40.0	2.0	35.0	GA	365
13876	COTE ALL MULTIPURPOSE ENAMEL		No	F14	5.0	1.0	4.0	GA	365
13876	COTE ALL MULTIPURPOSE ENAMEL		No	F14	4.0	1.0	3.0	GA	365
13876	COTE ALL MULTIPURPOSE ENAMEL		No	F14	60.0	5.0	60.0	GA	365
15180	INTERIOR EXTERIOR ALKYD WHITE		No	F14	30.0	5.0	25.0	GA	365
15180	INTERIOR EXTERIOR ALKYD WHITE		No	F14	6.0	1.0	5.0	GA	365
15371	IMRON PRIMERS & ENAMELS		No	F14	10.0	1.0	10.0	GA	365
15521	GLOSS BLACK AEROSOL		No	F14	3.0	1.0	2.0	GA	365
15521	GLOSS BLACK AEROSOL		No	F24	24o.0	10.0	24o.0	OZ	365
15541	GE5000 RTV SILICONE RUBBER		No	R14	24o.0	50.0	24o.0	OZ	365
15543	SS4120 MIXED ALCOHOLS		No	E14	4.0	1.0	3.0	GA	365
15611	RED PRIMER		No	F24	60.0	20.0	60.0	OZ	365

MATERIAL LOCATION SUMMARY LISTING FOR 2009 REPORTING YEAR

Location Code/ Product Code	Location Description/ Product Name	Grid Coord.	Confi-den-tial	Strg. C/P/T	Maximum Amount	Average Amount	Annual Usage	U o M	Days on-site
314	314 Carpenter Shop	R-53	Dept: NAVFAC						
16445	810 Glass Frosting		No	F24	36.0	12.0	24.0	OZ	365
16581	PROMAR 200 INTERIOR LATEX SEMI		No	F14	30.0	1.0	25.0	GA	365
1768	HEXANE		No	R14	28o.0	40.0	26o.0	OZ	365
2212	3M 90 HIGH STRENGTH ADHESIVE		No	F24	70o.0	40.0	70o.0	OZ	365
2415	WTS AEROSOL CEILING TILE SPRAY		No	F14	2.0	1.0	1.0	GA	365
3455	FERROX NON SKID FLOOR AND		No	F14	4.0	1.0	4.0	GA	365
3720	CONTACT CEMENT		No	F14	4.0	1.0	3.0	GA	365
3728	THINNER SYNTHETIC RESIN		No	F14	5.0	1.0	4.0	GA	365
4136	RTV 732 SEALANT - CLEAR		No	R14	84o.0	40.0	84o.0	OZ	365
4136	RTV 732 SEALANT - CLEAR		No	R14	60.0	10.0	50.0	OZ	365
5497	ELMERS CARPENTERS WOOD GLUE		No	N14	8.0	1.0	7.0	GA	365
5515	FLOOR ADHESIVE MULTI PURPOSE		No	F14	8.0	1.0	7.0	GA	365
6391	WHITE LIGHTNING ORIGINAL		No	R14	1,2oo.0	40.0	1,2oo.0	OZ	365
6844	KRYLON UPSIDE DOWN MARKING		No	F24	32.0	16.0	16.0	OZ	365
7090	SEABOARD ASPHALT ROOF		No	R14	75.0	10.0	70.0	GA	365
7373	ALL PURPOSE ADHESIVE CAULK		No	R14	44o.0	30.0	44o.0	OZ	365
9185	Bearing Grease		No	R14	60.0	30.0	30.0	OZ	365
324	324 Storehouse	M-27	Dept: @						
5538	PROPELLANT SMOKEY SAM N 60		No	F14	1.0	1.0	0.0	LB	365
5707	PAX 2A		No	F14	1.0	1.0	0.0	LB	365
325-B1	325 Dryhouse 32 Storage	T-49	Dept: T21						
1011	CALCINED ALUMINA		No	K14	10.0	10.0	0.0	LB	365
12025	FASCAT 4202		No	F14	44.0	11.0	0.0	LB	183
122	CAB O SIL FUMED SILICA;		No	K14	40.0	35.0	10.0	LB	365
12482	CYANOX 2246 ANTIOXIDANT		No	J14	20.0	20.0	0.0	LB	365
12482	CYANOX 2246 ANTIOXIDANT		No	I14	25.0	25.0	0.0	LB	365
13915	WOOD FLOUR		No	J14	4.0	4.0	0.0	CF	365
14248	TITANIUM		No	D14	45o.0	45o.0	90o.0	LB	365
15341	VESTANAT IPDI		No	F14	20.0	18.0	0.0	GA	365
15998	SB Boron 90		No	I14	50.0	13.0	0.0	LB	183
16327	POLY BD R45HTLO		No	D14	80.0	68.0	0.0	GA	365
16478	POLY BD R45M		No	D14	33o.0	30o.0	0.0	GA	365
16483	AMLUBE 614		No	D14	39o.0	39o.0	0.0	LB	365
16514	EMERY 2911 SYNTHETIC		No	D14	14o.0	95.0	0.0	GA	365
16514	EMERY 2911 SYNTHETIC		No	N14	15.0	13.0	0.0	GA	365
16699	POLY BD R45HT		No	D14	50.0	13.0	0.0	GA	183
16699	POLY BD R45HT		No	N14	15.0	4.0	0.0	GA	183
16972	HYCAR 1300X31 POLYMER CTBN		No	D14	11o.0	11o.0	0.0	GA	365
16972	HYCAR 1300X31 POLYMER CTBN		No	N14	5.0	5.0	1.0	GA	365
17159	YELLOW, ORANGE, GREEN, BROWN,		No	N14	9.0	2.0	9.0	GA	183
1750	CENTROL 3 F UB; Lecithin (Food		No	D14	15o.0	13o.0	0.0	GA	365

MATERIAL LOCATION SUMMARY LISTING FOR 2009 REPORTING YEAR

Location Code/ Product Code	Location Description/ Product Name	Grid Coord.	Confi-den-tial	Strg. C/P/T	Maximum Amount	Average Amount	Annual Usage	U o M	Days on-site
503	503 Cafeteria/Facilitlies	Q-54	Dept: MWR						
503	503 Cafeteria/Facilitlies	Q-54	Dept: MWR						
13154	Chlorodifluoromethane, HCFC-22, R-22		No	L24	60.0	60.0	0.0	LB	365
507	507 Dryhouse No. 61 - Storage	P-51	Dept: SUPPLY						
11547	ALUMINUM ATA X-81		No	D14	60o.0	60o.0	0.0	LB	365
1327	Atomized ALUMINUM POWDER		No	D14	55o.0	55o.0	0.0	LB	365
1327	Atomized ALUMINUM POWDER		No	D14	7,2oo.0	7,2oo.0	0.0	GA	365
16316	ATA X 65 SPHERICAL POWDER		No	D14	1,0oo.0	1,0oo.0	0.0	LB	365
16316	ATA X 65 SPHERICAL POWDER		No	D14	1,5oo.0	1,5oo.0	0.0	LB	365
16316	ATA X 65 SPHERICAL POWDER		No	D14	95o.0	95o.0	0.0	LB	365
41	ALUMINUM POWDER UNCOATED		No	D14	5,5oo.0	5,5oo.0	0.0	LB	365
5993	SPHERICAL ALUMINUM POWDER		No	D14	1,3oo.0	1,3oo.0	0.0	LB	365
7801	ATA X65 SPERICAL POWDER		No	D14	33o.0	33o.0	0.0	LB	365
509	509 Dryhouse No. 63 - Storage	Q-52	Dept: SUPPLY						
41	ALUMINUM POWDER UNCOATED		No	D14	1,8oo.0	1,8oo.0	0.0	LB	365
5144	ATOMIZED ALUMINUM POWDER X82		No	D14	2,2oo.0	2,2oo.0	0.0	LB	365
5144	ATOMIZED ALUMINUM POWDER X82		No	D14	4,8oo.0	4,8oo.0	0.0	LB	365
74	ATOMIZED POWDER 1-131		No	D14	2,0oo.0	2,0oo.0	0.0	LB	365
7801	ATA X65 SPERICAL POWDER		No	D14	1,0oo.0	1,0oo.0	0.0	LB	365
7802	ATA 201G ALUMINUM POWDER		No	D14	18,ooo.0	18,ooo.0	0.0	LB	365
7802	ATA 201G ALUMINUM POWDER		No	D14	3,0oo.0	3,0oo.0	0.0	LB	365
520	520 Magazine	V-46	Dept: @						
11659	PROPELLANT MK 109 HTPB		No	F14	4.0	4.0	0.0	LB	365
12512	PROPELLANT SIDEWINDER; MK 36		No	F14	4.0	4.0	0.0	LB	365
16862	KU DOUBLE BASE PROPELLANT		No	F14	0.7	0.7	0.0	LB	365
16862	KU DOUBLE BASE PROPELLANT		No	F14	2.6	2.6	0.0	LB	365
16862	KU DOUBLE BASE PROPELLANT		No	F14	0.6	0.6	0.0	LB	365
521	521 FLAME LOCKER BACK BAY	L-31							
13154	Chlorodifluoromethane, HCFC-22, R-22		No	L24	18o.0	18o.0	0.0	LB	365
524	524 Storage Bldg - Chemicals	O-56	Dept: SUPPLY						
11103	PLASTER OF PARIS		No	K14	3.0	3.0	0.0	LB	365
11368	TIN SILVER SOLDER ALLOYS		No	R14	10.0	10.0	0.0	OZ	365
11423	DET O JET		No	N14	7.0	7.0	0.0	QT	365
1162	TOLUENE		No	M14	8.0	8.0	0.0	GA	365
11704	PRIMER T7471 AEROSOL		No	F14	10o.0	10o.0	0.0	OZ	365
11719	CLIPPERSHIP ALUMINUM FIBRE		No	F14	45.0	45.0	0.0	GA	365
11720	CLIPPERSHIP PLASTIC ROOF		No	F14	41o.0	41o.0	0.0	OZ	365
11720	CLIPPERSHIP PLASTIC ROOF		No	R14	10.0	10.0	0.0	GA	365
11916	PAINT, TRAFFIC; White aliphatic		No	F14	64.0	64.0	0.0	OZ	365

MATERIAL LOCATION SUMMARY LISTING FOR 2009 REPORTING YEAR

Location Code/ Product Code	Location Description/ Product Name	Grid Coord.	Confi-den-tial	Strg. C/P/T	Maximum Amount	Average Amount	Annual Usage	U o M	Days on-site
690	690 Process Bldg - Explosives	AA-39	Dept: T21						
13154	Chlorodifluoromethane, HCFC-22, R-22		No	F24	75.0	75.0	0.0	LB	365
17842	Toluene, Technical		No	F14	2.0	1.0	0.0	GA	183
2859	SODIUM SULFATE ANHYDROUS		No	F14	1.5	0.0	0.0	GA	183
415	SO SURE STENCIL INK BLACK 37038		No	F24	11.0	3.0	0.0	OZ	183
4875	DOW CORNING 316 SILICONE		No	F24	28o.0	71.0	0.0	G	183
5190	NITROGEN		No	F24	60.0	60.0	10.0	LB	365
6696	SPRUCE GENERAL USE AND		No	F24	33.0	8.0	0.0	OZ	183
693	693 Storage Bldg - Inert	AA-38	Dept: T21						
14763	GOJO ORANGE HAND CLEANER		No	N14	1.0	1.0	1.0	GA	183
15043	LEKSOL		No	D14	55.0	14.0	55.0	GA	183
1627	HX 868A DYNAMAR BRAND		No	F14	2.0	1.0	2.0	GA	183
16650	Brown Aluminum Oxide; Blastite BT;		No	J14	1,1oo.0	26o.0	1,1oo.0	LB	183
17462	Lenium GS		No	D14	11o.0	28.0	11o.0	GA	183
17842	Toluene, Technical		No	F14	5.0	1.0	5.0	GA	183
8327	DOA DYNAMAR HX 752 SOLUTION 60		No	N14	9.0	2.0	9.0	QT	183
697A	697A Magazine	D-16	Dept: @						
11498	PROPELLANT CKU 10 A ROCKET		No	F14	1.0	1.0	0.0	LB	365
15605	CCU 22/HTPB		No	F14	6.0	6.0	0.0	LB	365
17402	NOSIH AA-6 Double Base Propellant		No	F14	1.0	1.0	0.0	LB	365
3713	PROPELLANT MK 82 90		No	F14	1.6	1.6	0.0	LB	365
6482	CCU 22 A A BOOSTER		No	F14	0.1	0.1	0.0	LB	365
697B	697B Magazine	D-16	Dept: @						
11498	PROPELLANT CKU 10 A ROCKET		No	F14	2.0	2.0	0.0	LB	365
15605	CCU 22/HTPB		No	F14	3.0	3.0	0.0	LB	365
3713	PROPELLANT MK 82 90		No	F14	0.8	0.8	0.0	LB	365
6482	CCU 22 A A BOOSTER		No	F14	0.2	0.2	0.0	LB	365
697C	697C Magazine	D-16	Dept: @						
11659	PROPELLANT MK 109 HTPB		No	F14	1.0	1.0	0.0	LB	365
2322	MTV MAGNESIUM TEFLON VITON		No	F14	1.0	1.0	0.0	LB	365
700	700 CBIRF Vehicle	S-53	Dept: CBIRF						
12415	MOBIL DELVAC 1300 SUPER 15W40		No	D14	11o.0	11o.0	0.0	GA	365
12441	SA 826 4122		No	R14	10.0	10.0	0.0	OZ	365
14635	SO SURE SPRAY PAINT (olive drab)		No	F24	40.0	40.0	0.0	OZ	365
14793	ECO SURE BLUE 35109		No	F24	30.0	30.0	0.0	OZ	365
15521	GLOSS BLACK AEROSOL		No	F24	12.0	12.0	0.0	OZ	365
15545	SO SURE WHITE 17875		No	F24	20.0	20.0	0.0	OZ	365
15596	YELLOW STRIPPING		No	F24	20o.0	20o.0	0.0	OZ	365
1563	SO SURE YELLOW 33538		No	F24	88.0	88.0	0.0	OZ	365
3068	PRIMERS - ALL PURPOSE - RUST		No	F24	12.0	12.0	0.0	OZ	365
5110	SO SURE GLOSS BLACK 17038		No	F24	10.0	10.0	0.0	OZ	365

MATERIAL LOCATION SUMMARY LISTING FOR 2009 REPORTING YEAR

Location Code/ Product Code	Location Description/ Product Name	Grid Coord.	Confi-den-tial	Strg. C/P/T	Maximum Amount	Average Amount	Annual Usage	U o M	Days on-site
700	700 CBIRF Vehicle	S-53	Dept: CBIRF						
6813	SO SURE SPRAY PAINT WHITE		No	F24	10.0	10.0	0.0	OZ	365
70005	DEXRON III Mercon Bulk Transmission		No	F14	32.0	32.0	0.0	OZ	365
70005	DEXRON III Mercon Bulk Transmission		No	D14	55.0	55.0	0.0	GA	365
70009	Hy-Gard Transmission and Hydraulic		No	F14	12.0	12.0	0.0	OZ	365
70021	Scotch Spray Mount Artist's Adhesive		No	F24	10.0	10.0	0.0	OZ	365
70038	GUNK DOT 3 Super Heavy Duty Brake		No	N14	12.0	12.0	0.0	OZ	365
70215	SAE 5W-20 & 5W-30 Premium Synth		No	D14	55.0	55.0	0.0	GA	365
70232	Eco-Sure Industrial Enamel Aerosol		No	F24	11.0	11.0	0.0	OZ	365
70265	Red 11136 So-Sure Enamel		No	F24	10.0	10.0	0.0	OZ	365
70267	Brown 10075 Paint So-Sure		No	F24	50.0	50.0	0.0	OZ	365
70292	NAPA Kool, Wix Cool, Big A Cool &		No	N14	64.0	64.0	0.0	OZ	365
70301	Accent SSPR 6PK Satin Espresso		No	F24	12.0	12.0	0.0	OZ	365
70302	Eco-Sure Industrial Enamel Aerosol		No	F24	11.0	11.0	0.0	OZ	365
70303	Eco-Sure Industrial Enamel Aerosol		No	F24	11.0	11.0	0.0	OZ	365
70304	Colorplace Spray Enamel		No	F24	10.0	10.0	0.0	OZ	365
70305	DEM-Kote Enamel Finish 1D485		No	F24	12.0	12.0	0.0	OZ	365
70306	Eco-Sure Industrial Enamel Paint		No	F24	30.0	30.0	0.0	OZ	365
70307	STRUST SSPR 6PK Gloss Black		No	F24	12.0	12.0	0.0	OZ	365
70308	Eco-Sure Industrial Enamel Aerosol		No	F24	11.0	11.0	0.0	OZ	365
70309	Eco-Sure Industrial Enamel Aerosol		No	F24	11.0	11.0	0.0	OZ	365
70310	Aerosol Lacquer Clear 14B100 (G/0)		No	F24	10.0	10.0	0.0	OZ	365
70311	CRC Battery Cleaner with Indicator		No	F24	11.0	11.0	0.0	OZ	365
70312	JC-30 PTFE Sealing Compound		No	F14	4.0	4.0	0.0	OZ	365
70313	John Deere Chain and Cable Lubricant		No	F24	30.0	30.0	0.0	OZ	365
7106	BULK PRODUCTS 2 GENERAL		No	F24	30.0	30.0	0.0	OZ	365
8211	SO SURE BLUE 15526 SPRAY PAINT		No	F24	10.0	10.0	0.0	OZ	365
704	704 M-B Process Bldg	X-48	Dept: R33						
13154	Chlorodifluoromethane, HCFC-22, R-22		No	F24	48o.0	48o.0	0.0	LB	365
709A	709A Magazine	Y-48	Dept: T21						
12149	PBXW-128 Explosive		No	F14	0.0	0.0	0.0	LB	365
12732	N BUTYLNITRATOETHYLNITRAMINE;		No	F14	1.0	1.0	0.0	LB	365
13985	PBXN 9		No	F14	1.0	1.0	0.0	LB	365
13985	PBXN 9		No	F14	0.0	0.0	0.0	LB	365
13985	PBXN 9		No	F14	0.0	0.0	0.0	LB	365
15510	OXIMET 5B		No	F14	0.0	0.0	0.0	LB	365
15510	OXIMET 5B		No	F14	0.0	0.0	0.0	LB	365
16217	TRIAMINOGUANIDINIUM		No	F14	1.0	1.0	0.0	LB	365
16489	BORON CARBIDE A-5		No	F14	0.0	0.0	0.0	LB	365
18319	OSX-CAN Type II; IMX-101		No	F14	0.8	0.8	0.0	LB	365
189	RDX		No	F14	1.0	1.0	0.0	LB	365
2102	BLACK POWDER		No	F14	1.0	1.0	0.0	LB	365
2625	PBXN 5 ALL TYPES AND CLASSES		No	K14	1.0	1.0	0.0	LB	365
2625	PBXN 5 ALL TYPES AND CLASSES		No	F14	1.0	1.0	0.0	LB	365
2625	PBXN 5 ALL TYPES AND CLASSES		No	F14	0.0	0.0	0.0	LB	365
319	HMX GRADE B		No	F14	0.1	0.1	0.0	LB	365
4416	DETASHEET		No	F14	8.0	8.0	0.0	LB	365

Appendix E

HAZARDOUS WASTE

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Of the 33 evaluated buildings, 10 have at one point in time stored hazardous wastes, according to a Hazardous Waste Database supplied by the Environmental Office Hazardous Waste Program Manager (Mark Yeaton). No buildings in the 30-acre area have been used for treatment or disposal of hazardous wastes, and none have been permitted for the storage of explosive hazardous waste. As discussed in Appendix C, NSF Indian Head holds a Controlled Hazardous Substance Permit A-223 under RCRA which permits mixing certain spent activated carbons with coal to be burned at the Goddard Power Plant. The spent carbons are Listed Hazardous Waste (K045) that is generated from filtering wastewaters containing explosives from specific processes. As part of the permit, the coal pile location where the spent activated carbons were added may require sampling to ensure no explosives contamination occurred, and remediation if necessary (Yeaton, 2010).

The following table summarizes the hazardous waste storage at these ten buildings.

Table E-1. Hazardous Waste Storage Details

Building Number	Building Name	Storage Type [a]	Active or Date Closed	Notes
111	PW Office/Shops	Satellite site	Closed in 2003	Rick McQuiston, NAVFAC, says no evidence of any spill from past storage.
268	Machine/ Electronics Shop	90-day site	Active	Bob Altiere, NSWC, says lubricants and solvents were stored in the past; no records of any spills.
314	PW Shops	Satellite site	Active	Rick McQuiston, NAVFAC, says not currently storing any wastes; no record of any spills.
510	Railroad/Heavy Equipment Building	90-day site	Closed 1999	Randy Vanasse, NAVFAC, says no evidence of any spills from past storage.
521	CBIRF Warehouse/Electronics Shop	Satellite site	Active	Captain James Atchison, CBIRF, says wastes are used petroleum, oils and lubricants (POLs) that are collected, transported to Fort Meade, MD for proper disposal.
700	CBIRF Vehicle Maint Shop	Satellite site	Active	Captain James Atchison, CBIRF, says wastes are used POLs that are collected, transported to Fort Meade, MD for proper disposal.
870	Maintenance Shop- SEABEE'S	Satellite site	Active	Nicholas Carros, Site visit 6/16/2010 indicates no evidence of exterior contamination.
1753	Storage Shed	Satellite site	Active	Rick McQuiston, NAVFAC, says not currently storing any wastes; building went through clean up in 1994-1995 and has not stored any other wastes since that time.
1800	Storage Box -HAZ WST MAT	90-day site	Closed 2003	Bill Fini, NAVFAC, no evidence of spills.
1919	Refrig – Recover and Recycle	90-day site	Closed 1999	Nicholas Carros, NSWC, Site Visit 6/16/2010 indicates no evidence of spills outside building. Refrigerant would volatilize immediately if released.

a – A satellite site may store up to 55 gallons of waste for an unlimited period of time. A 90-day site may store an unlimited amount of hazardous waste for up to 90 days.

These buildings were visually inspected for evidence of contamination resulting from hazardous waste storage. However, the buildings are currently still operational and therefore have equipment and personnel within them, making identification of contamination from hazardous waste difficult. Although building managers suggest there are no contamination concerns, inspections of the buildings are recommended after the equipment has been removed to identify any evidence of contamination (Carros, 2010).

Appendix F

TANKS

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Underground Storage Tanks

Building 1979 is a Fuel Tank Area that contains three underground storage tanks (USTs). It is part of a gas station for government vehicles on the installation. Building 1489 is a Filling Station Area that has a small shelter building and three dispensers. These USTs have had no history of leaks (Harrison, 2010). The USTs are within 100 feet of Buildings 510, 3034, and 3035 but should not have affected these buildings due to their clean history. Table F-1 describes the tanks.

Table F-1. Underground Storage Tank Description

Tank ID	Fuel Storage Type	Secondary Containment	Capacity (gallons)
510-1	Gasoline	Double wall	12,000
510-2	Gasoline	Double wall	12,000
510-3	Diesel	Double wall	12,000

There are no records of leaks from historical USTs within the 30-acre area (Harrison, 2010).

Aboveground Storage Tanks

There are two (2) aboveground storage tanks (ASTs) housed within Building 111. This building serves as offices and shops for the Public Works Department. There are eight (8) other ASTs that are within the 30-acre area for a total of 10 ASTs. Table F-2 lists the details of these ASTs.

Table F-2. Aboveground Storage Tank Descriptions

Tank ID	Fuel Storage Type	Equipment	Capacity (gallons)	Notes
111A	Lubricating Oil	#2 Air Compressor	220	No evidence of release (McQuiston, 2010)
111B	Lubricating Oil	#1 Air Compressor	120	No evidence of release (McQuiston, 2010)
778-2	#2 Fuel Oil	AST - Steel w/dike	10,000	No evidence of release (Harrison, 2010)
778-6-1	#6 Fuel Oil	AST - Steel w/dike	15,000	No evidence of release (Harrison, 2010)
778-6-2	#6 Fuel Oil	AST - Steel w/dike	15,000	No evidence of release (Harrison, 2010)
873A	Lubricating Oil	#1 Turbine Generator	800	No evidence of release (Harrison, 2010)
873B	Lubricating Oil	#2 Turbine Generator	800	No evidence of release (Harrison, 2010)
1920A	Diesel	#1 Diesel Generator	110	No evidence of release (Harrison, 2010)
1920B	Diesel	#3 Diesel Generator	110	No evidence of release (Harrison, 2010)
1920C	Diesel	#2 Diesel Generator	110	No evidence of release (Harrison, 2010)

ASTs are checked on a regular basis for evidence of leaks or releases. All ASTs will be removed by a Maryland Department of the Environment (MDE)-certified remover and any necessary cleanup will be performed at that time (Harrison, 2010).

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Appendix G

POLYCHLORINATED BIPHENYLS

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Polychlorinated biphenyls (PCBs) were commonly used in transformers and some equipment throughout the installation. According to GIS data, 32 sets of transformers are installed within the 30-acre area. PCBs were banned from use by the Environmental Protection Agency (EPA) in 1979. Any transformer installed after that date is assumed to not contain PCBs. Of the 32 sets of transformers, nine were installed after 1979. Table G-1 provides information for the 23 sets of transformers that may have been installed prior to 1979 and could therefore contain PCBs. Each transformer set may include multiple transformers; these 23 transformer sets comprise a total of 39 transformers that may contain PCBs.

Table G-1. Transformers Potentially Installed Prior to 1979

Transformer Set ID	Number of Transformers in Set	Pole or Pad Mounted	Nearest Building(s)	Year Installed
87	3	Pole	268	1967
1407	1	Pad	1407	Unknown
1904	1	Pad	1904	Unknown
1905	1	Pad	1905	Unknown
1406a	1	Pad	1406	Unknown
1406b	1	Pad	1406	Unknown
1920a	1	Pad	1920	Unknown
4805-A	3	Pole	268	1970
4D-10	3	Pole	503	1975
4D-A2	3	Pole	503	1973
4D-A4	3	Pole	521	1972
4D-B9	1	Pole	314A	Unknown
4D--BA-1	3	Pole	314A	1969
6D-8D-5	1	Pole	268	Unknown
779a	1	Pad	779 and 780	Unknown
779b	1	Pad	779 and 780	Unknown
780/873-1	1	Pad	780 and 873	Unknown
780/873-2	1	Pad	780 and 873	Unknown
780/873-3	1	Pad	780 and 873	Unknown
780/873-4	1	Pad	780 and 873	Unknown
780/873-5	1	Pad	780 and 873	Unknown
7D-A1	1	Pole	898	Unknown
INH000010	5	Pole	639	Unknown

This study also included the review of a list of PCB-containing equipment that was compiled in 1995. This list, provided by the Environmental Office Hazardous Waste Program Manager (Mark Yeaton), lists mostly transformers but includes some additional types of equipment such as electrical switches and breakers. This list includes a total of 7 pieces of equipment that, based on the building number, appear to be associated with one of the 33 buildings addressed in this study. This information is provided in Table G-2.

Table G-2. 1995 Records of PCB-Containing Equipment

Building Number	PCB Information
111 (1406 and 1407)	Possibly in pad-mounted transformers at Buildings 1406 and 1407. These buildings are transformer stations directly adjacent to and associated with Building 111.
268	Possibly within machining equipment, band saw, and lathe within the building.
314A	Possibly in a pole-mounted transformer directly attached to the south end of the building.
377B	Possibly in a pole-mounted transformer approximately 20 feet north of the building.
521	Possibly in a pole-mounted transformer at the east side of the building.
551	Possibly in pole-mounted transformer 40 feet north east of the building.
870	Possibly in a pole-mounted transformer approximately 40 feet east of the building.

Three of these seven items appear to match transformer sets listed in Table G-1. Transformers at Buildings 1406 and 1407 are directly adjacent to Building 111. The transformer listed at Building 314A in Table G-2 appears to match up with either set 4D-B9 or 4D-BA-1 in Table G-1. The transformer at Building 521 in Table G-2 matches up with set 4D-A4 in Table G-1. Therefore, the transformers at these buildings should be considered highly likely to contain PCBs. According to GIS data, the three transformer sets at Buildings 115, 377B, and 870 appear to have been replaced in 1992, 1992, and 1983 (respectively). These dates are after the PCB ban and, therefore, the transformers are assumed not to contain PCBs.

In the 1990s, the Navy performed a PCB survey at NSF Indian Head where any visible PCB sources were removed. A site visit on 6/16/2010 was non-conclusive in verifying the presence or absence of PCBs at these locations due to the inaccessibility of the transformer locations. It is expected that PCBs are no longer present at these locations and that contamination from PCB use should be minimal; however, the transformers should be inspected prior to demolition (Carros, 2010).

Within the 30-acre area there is a transformer storage yard along Hersey Road. The yard stores new transformers before they are installed throughout the installation. There has not been a release from these transformers in the last 30 years (Jenkins, 2010). As they are new units, the likelihood of a release is low; however, it is possible. A site visit was inconclusive regarding the presence of PCB contamination. It is unknown if any spills may have occurred more than 30 years ago; and therefore, PCBs may be present at the site.

Appendix H

ASBESTOS-CONTAINING MATERIALS

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Asbestos-containing materials may be present at many of the buildings. Asbestos surveys have been performed on only two (2) of the 33 buildings addressed in this study. The survey results are summarized in Table H-1.

Table H-1. Asbestos Survey Data

Building Number	Building Name	Year Constructed	Asbestos Details	Source of Information
503	Office Building- PW	1942	Friable asbestos was found in 4-inch ca-mg pipe insulation	December 2005 survey by Applied Environmental
510	Railroad/Heavy Equipment Building	1942	Non-friable asbestos was found in the green and beige floor tile and associated black mastic; friable found in ca-mg pipe insulation	April 2006 survey by Applied Environmental

Certain asbestos-containing materials began to be phased out of use by the EPA starting in 1973. Asbestos is still permitted in the manufacture of materials such as pipeline wrap, roofing felt, and roof coatings. Table H-2 summarizes the buildings that have not yet had an asbestos survey with the building's year of construction. An asbestos survey of all buildings is required prior to demolition. If asbestos is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations.

Table H-2. Buildings without Asbestos Surveys

Building Number	Building Name	Year Constructed
111	PW Office/Shops	1899
113	PW Shop-Metal	1899
115	PW Shop- Line Crew	1910
116	REC-SHIP / Fabrications	1899
117	Storehouse-General	1904
268	Machine/Electronics Shop	1927
314	PW Shops	1919
314A	Packaging Lab	1942
351	Office Building- PW	1932
376	Storage- Electrical	1920
377B	Storage – Lumber/Miscell	1944
435	Engineering Office Building	1932
490	Engineering Office Building	1941
521	CBIRF Warehouse/ Elec shop	1942
551	Office Building - PW	1918
627	General Storage Facility	1944
639	Meter house - fresh	1947
700	CBIRF Vehicle Maint Shop	1950
870	Maintenance Shop - SEABEE'S	1952
1406	Transformer Station	1976

Table H-2. Buildings without Asbestos Surveys

Building Number	Building Name	Year Constructed
1407	Transformer Station	1976
1489	Filling Station	1976
1732	Cooling Tower- Water	1987
1753	Storage Shed	1989
1800	Storage Shed- HAZ WST MAT	1991
1894	Storage Building - Chemicals	1999
1905	Transformer Station	1996
1919	Refrig – Recover and Recycle	1997
1979	Fuel Tank Area	1996
3034	Vehicle Washdown Fac - CBIRF	2000
3035	Loading Dock - Heavy Duty	2000

Appendix I

LEAD-CONTAINING PAINT

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Lead-containing paint may be present at many of the buildings. Lead paint surveys have been performed on only two (2) of the 33 buildings addressed in this study. The survey results are summarized in Table I-1.

Table I-1. Lead Paint Survey Data

Building Number	Building Name	Year Constructed	Lead Paint Details	Source of Information
503	Office Building- PW	1942	Lead-based paint was found on exterior siding, handrail, window casing, interior walls, doors, window casing, and door casing.	December 2005 Survey by Applied Environmental
510	Railroad/Heavy Equipment Building	1942	Lead-based paint was found on the crane equipment, door casings, doors, piping, walls, floors, bathroom stall partitions, and structural supports. Lead-containing paint was found on radiators, floors, walls, windows, doors, and walls.	April 2006 Survey by Applied Environmental

Lead-based paint was phased out of use by the EPA starting in 1978. However, lead-containing paint (i.e. paint that contains lead at a content below the threshold for lead-based paint) may still be present in paint after 1978. There is a smaller amount of lead in lead-containing paint than lead-based paint. Table I-2 summarizes the buildings that have not yet had a lead paint survey with the year of construction. A lead paint survey of all buildings is required prior to demolition. If lead-containing paint is found, any remediation and/or demolition will require adherence to MDE and federal lead paint management regulations.

Table I-2. Buildings without Lead Paint Surveys

Building Number	Building Name	Year Constructed
111	PW Office/Shops	1899
113	PW Shop-Metal	1899
115	PW Shop- Line Crew	1910
116	REC-SHIP / Fabrications	1899
117	Storehouse-General	1904
268	Machine/Electronics Shop	1927
314	PW Shops	1919
314A	Packaging Lab	1942
351	Office Building- PW	1932
376	Storage- Electrical	1920
377B	Storage – Lumber/Miscell	1944
435	Engineering Office Building	1932
490	Engineering Office Building	1941
521	CBIRF Warehouse/ Elec shop	1942

Table I-2. Buildings without Lead Paint Surveys

Building Number	Building Name	Year Constructed
551	Office Building - PW	1918
627	General Storage Facility	1944
639	Meter house - fresh	1947
700	CBIRF Vehicle Maint Shop	1950
870	Maintenance Shop - SEABEE'S	1952
1406	Transformer Station	1976
1407	Transformer Station	1976
1489	Filling Station	1976
1732	Cooling Tower- Water	1987
1753	Storage Shed	1989
1800	Storage Shed- HAZ WST MAT	1991
1894	Storage Building - Chemicals	1999
1905	Transformer Station	1996
1919	Refrig – Recover and Recycle	1997
1979	Fuel Tank Area	1996
3034	Vehicle Washdown Fac - CBIRF	2000
3035	Loading Dock - Heavy Duty	2000

Appendix J

MUNITIONS AND EXPLOSIVES OF CONCERN

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Based on the results of a 2002 Property Utilization Study, eight (8) of the 33 buildings addressed in this study were identified as having the potential or probability for explosives contamination (Caris, 2010). The extent of contamination and potential for environmental migration is not known at this time. Table J-1 lists the affected buildings with the explosive contamination findings from the Property Utilization Study.

Table J-1. Buildings with Potential Explosives Contamination

Building Number	Building Name	Findings on Explosives Contamination
111	PW OFFICES / SHOPS	Probable
117	STOREHOUSE – GENERAL	Possible
268	MACHINE / ELECTRONICS SHOP	Probable
314A	PW SHOPS	Probable
376	STORAGE - ELECTRICAL	Unknown
510	RAILROAD / HEAVY EQUIP BLDG	Possible
521	CBIRF WAREHOUSE / ELEC SHOP	Probable
700	STOREHOUSE - GENERAL	Probable

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Appendix K

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Appendix L

ENVIRONMENTAL CONDITIONS, RESTRICTIONS AND LAND USE CONTROLS

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30-Acre Area

Contaminants/Hazardous Waste: The treatment ponds will be drained and pumped of any remaining solids prior to demolition. As part of the RCRA permit, the coal pile location where the spent activated carbons were added may require sampling to ensure no explosives contamination occurred, and remediation if necessary (Yeaton, 2010).

Railroad tracks run through the area that may have historically been treated with an herbicide containing arsenic. If extensive earthwork in the immediate vicinity of the railroad tracks becomes necessary, the contractor performing the work must: a) consult with Health and Safety personnel to determine the appropriate personal protective equipment required to ensure worker safety, and b) consult with the NAVFAC PWD Site Indian Head Environmental Office to determine appropriate soil handling procedures.

USTs: There are three Underground Storage Tanks (USTs) for gasoline and diesel fuel storage at Building 1979 within the 30-acre area. Disposal of USTs must be coordinated with the Spill Prevention Control and Countermeasures Manager (Bobby Harrison, x2259). Removed tanks must be permanently closed in accordance with the requirements of 40 CFR Part 280 Subpart G and COMAR 26.10. Contractor performing the work must be an MDE-certified tank remover.

ASTs: There are 10 Aboveground Storage Tanks (ASTs) within the 30-acre area. The tanks are checked on a regular basis and have not shown evidence of leaks. In the event an AST will be removed, disposal must be coordinated with the Spill Prevention Control and Countermeasures Manager (Bobby Harrison, x2259). Removed tanks must have the associated lines cleaned of any residual fuel and removed along with the tank itself**.**

PCBs: There is potential for Polychlorinated Biphenyls (PCBs) contamination at the transformer storage yard located along Hersey Road and at the 32 transformer locations across the site. An inspection must be performed and testing may be required if there is evidence of a release. The contractor performing the work will dispose of any PCBs properly will contact the Indian Head Environmental Office Hazardous Waste Program Manager (Mark Yeaton) for direction.

Natural or Cultural Resources: Construction within the historic district and actions potentially affecting Building 130 (Standpipe) would require consultation with the Maryland Historical Trust (MHT) to determine potential for adverse effect. Actions potentially affecting Building 130 (Standpipe) would also require consultation with the MHT to determine whether these actions may constitute an adverse effect. Any adverse effects to Building 130 or the Naval Powder Factory Historic District would require development of a Memorandum of Agreement (MOA) with MHT to identify appropriate mitigation measures.

The government is conducting a Phase I archeological survey for the areas that have the potential for archeological resources within the 30 acre site. The results of these surveys must be reviewed by MHT. No restrictions or land use controls would apply to development in these areas if no archeological sites are present. However, if these surveys identify archeological sites that may be eligible for listing on the National Register of Historic Places, land use controls would be necessary to avoid disturbance of these sites. Development of an MOA with MHT and completion of mitigation measures would be required for any actions disturbing these sites.

Any new power lines/poles/cross-arms must meet the requirements of the U.S. Fish and Wildlife Service Bald Eagle biological opinion and NSF Indian Head bald eagle management plan. This includes installation of power line/pole retrofits.

Stormwater: Any new development within the 30-acre area must be designed and executed in accordance with applicable MDE and federal standards and regulations to ensure that stormwater impacts are minimized.

Building 111: PW Offices/Shops

Contaminants: Building 111 is adjacent to railroad tracks that may have historically been treated with an herbicide containing arsenic. If extensive earthwork in the immediate vicinity of the railroad tracks becomes necessary, the contractor performing the work must: a) consult with Health and Safety personnel to determine the appropriate personal protective equipment required to ensure worker safety, and b) consult with the NAVFAC PWD Site Indian Head Environmental Office to determine appropriate soil handling procedures.

Hazardous Materials: Previously stored hazardous materials will be removed or recovered by NSWC or NAVFAC Shops prior to demolition. An inspection will be performed after equipment is removed to identify any residual contamination. If residual contamination is found, any remediation and/or demolition will require adherence to MDE and federal hazardous material management regulations.

There is the potential for Ozone Depleting Substances (ODS) contained within equipment at the building. The contractor performing the work will include FAR Clause (23.804 a and b) regarding ODS in contract scope. Ensure that service records, disposal records, and new installation records are forwarded to NAVFAC refrigeration management office (POC Bill Summers, william.m.summers@navy.mil).

ASTs: Disposal of Aboveground Storage Tanks (ASTs) must be coordinated with the Spill Prevention Control and Countermeasures Manager (Bobby Harrison, x2259). Removed tanks must have the associated lines cleaned of any residual fuel and removed along with the tank itself.

PCBs: If any Polychlorinated Biphenyl (PCB)-containing lighting ballasts or lamps are present, contractor performing the work will follow the Unified Facilities Guide Specifications, Section 02 84 16, "Handling of Lighting Ballasts and Lamps Containing PCBs and Mercury." If any other PCB-containing equipment is present, contractor performing the work will contact the Indian Head Environmental Office Hazardous Waste Program Manager (Mark Yeaton) for direction.

Asbestos: A survey of the building and its associated infrastructure for asbestos-containing material (ACM) is required prior to demolition. If ACM is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations.

Lead Paint: A survey of the building and its associated infrastructure for lead-containing paint is required prior to demolition. If lead-containing paint is found, any remediation and/or demolition will require adherence to MDE and federal lead-containing paint management regulations.

Munitions and Explosives of Concern: Prior to demolition, the building must be inspected by NSWC personnel to determine if explosives contamination is present. If suspected within the building, the building must be decontaminated using a high-pressure hot water power wash (to be performed by NSWC decontamination personnel). Any equipment to be relocated would be inspected for explosives contamination and would receive certification prior to relocation. Any equipment to be disposed of would be decontaminated prior to disposal if it were found to be contaminated. Decontamination would take place at the Industrial Waste Processor or at the

Strauss Avenue Thermal Treatment Area (for significant and reactive levels of explosives contamination). It has not been determined if contaminated soil exists outside the building. Therefore, if contamination is suspected outside the building, the area will be sampled to identify the type and degree of contamination present.

Building 113: PW Offices/Shops

Contaminants: Building 113 is adjacent to railroad tracks that may have historically been treated with an herbicide containing arsenic. If extensive earthwork in the immediate vicinity of the railroad tracks becomes necessary, the contractor performing the work must: a) consult with Health and Safety personnel to determine the appropriate personal protective equipment required to ensure worker safety, and b) consult with the NAVFAC PWD Site Indian Head Environmental Office to determine appropriate soil handling procedures.

Hazardous Materials: Previously stored hazardous materials will be removed or recovered by NAVFAC shops prior to demolition. An inspection will be performed after equipment is removed to identify any residual contamination. If residual contamination is found, any remediation and/or demolition will require adherence to MDE and federal hazardous material management regulations.

There are Ozone Depleting Substances (ODS) within a Split System Compressor. The contractor performing the work will include FAR Clause (23.804 a and b) regarding ODS in contract scope. Ensure that service records, disposal records, and new installation records are forwarded to NAVFAC refrigeration management office (POC Bill Summers, william.m.summers@navy.mil).

Asbestos: A survey of the building and its associated infrastructure for asbestos-containing material (ACM) is required prior to demolition. If ACM is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations.

Lead Paint: **A survey of the building and its associated infrastructure for lead-containing paint is required prior to demolition. If lead-containing paint is found, any remediation and/or demolition will require adherence to MDE and federal lead-containing paint management regulations.**

Building 115: PW Shop- Line Crew

Hazardous Materials: There is the potential for Ozone Depleting Substances (ODS) contained within equipment at the building. The contractor performing the work will include FAR Clause (23.804 a and b) regarding ODS in contract scope. Ensure that service records, disposal records, and new installation records are forwarded to NAVFAC refrigeration management office (POC Bill Summers, william.m.summers@navy.mil).

ASTs: Disposal of Aboveground Storage Tanks (ASTs) must be coordinated with the Spill Prevention Control and Countermeasures Manager (Bobby Harrison, x2259). Removal must have the associated lines cleaned of any residual fuel and removed along with the tank itself.

PCBs: If any Polychlorinated Biphenyl (PCB)-containing lighting ballasts or lamps are present, contractor performing the work will follow the Unified Facilities Guide Specifications, Section 02 84 16, "Handling of Lighting Ballasts and Lamps Containing PCBs and Mercury." If any other PCB-containing equipment is present, contractor performing the work will contact the Indian Head Environmental Office Hazardous Waste Program Manager (Mark Yeaton) for direction.

Asbestos: A survey of the building and its associated infrastructure for asbestos-containing material (ACM) is required prior to demolition. If ACM is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations.

Lead Paint: A survey of the building and its associated infrastructure for lead-containing paint is required prior to demolition. If lead-containing paint is found, any remediation and/or demolition will require adherence to MDE and federal lead-containing paint management regulations.

Building 116: REC-SHIP/Fabrications

Contaminants: Building 116 is adjacent to railroad tracks that may have historically been treated with an herbicide containing arsenic. If extensive earthwork in the immediate vicinity of the railroad tracks becomes necessary, the contractor performing the work must: a) consult with Health and Safety personnel to determine the appropriate personal protective equipment required to ensure worker safety, and b) consult with the NAVFAC PWD Site Indian Head Environmental Office to determine appropriate soil handling procedures.

Hazardous Materials: Previously stored hazardous materials will be removed or recovered by NSWC or NAVFAC shops prior to demolition. An inspection will be performed after equipment is removed to identify any residual contamination. Risk of contamination is very little because hazardous materials are not used here, just stored in sealed containers for a minimal amount of time. However, if residual contamination is found, any remediation and/or demolition will require adherence to MDE and federal hazardous material management regulations.

There are Ozone Depleting Substances (ODS) within a Split System Compressor. The contractor performing the work will include FAR Clause (23.804 a and b) regarding ODS in contract scope. Ensure that service records, disposal records, and new installation records are forwarded to NAVFAC refrigeration management office (POC Bill Summers, william.m.summers@navy.mil).

Asbestos: A survey of the building and its associated infrastructure for asbestos-containing material (ACM) is required prior to demolition. If ACM is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations.

Lead Paint: A survey of the building and its associated infrastructure for lead-containing paint is required prior to demolition. If lead-containing paint is found, any remediation and/or demolition will require adherence to MDE and federal lead-containing paint management regulations.

Building 117: Storehouse- General

Contaminants: Building 117 is adjacent to railroad tracks that may have historically been treated with an herbicide containing arsenic. If extensive earthwork in the immediate vicinity of the railroad tracks becomes necessary, the contractor performing the work must: a) consult with Health and Safety personnel to determine the appropriate personal protective equipment required to ensure worker safety, and b) consult with the NAVFAC PWD Site Indian Head Environmental Office to determine appropriate soil handling procedures.

Hazardous Materials: Previously stored hazardous materials will be removed or recovered by NSWC or NAVFAC shops prior to demolition. An inspection will be performed after equipment is removed to identify any residual contamination. If residual contamination is found, any remediation and/or demolition will require adherence to MDE and federal hazardous material management regulations.

There is the potential for Ozone Depleting Substances (ODS) contained within equipment at the building. The contractor performing the work will include FAR Clause (23.804 a and b) regarding ODS in contract scope. Ensure that service records, disposal records, and new installation records are forwarded to NAVFAC refrigeration management office (POC Bill Summers, william.m.summers@navy.mil).

Asbestos: A survey of the building and its associated infrastructure for asbestos-containing material (ACM) is required prior to demolition. If ACM is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations.

Lead Paint: A survey of the building and its associated infrastructure for lead-containing paint is required prior to demolition. If lead-containing paint is found, any remediation and/or demolition will require adherence to MDE and federal lead-containing paint management regulations.

Munitions and Explosives of Concern: Prior to demolition, the building must be inspected by NSWC personnel to determine if explosives contamination is present. If suspected within the building, the building must be decontaminated using a high-pressure hot water power wash (to be performed by NSWC decontamination personnel). Any equipment to be relocated would be inspected for explosives contamination and would receive certification prior to relocation. Any equipment to be disposed of would be decontaminated prior to disposal if it were found to be contaminated. Decontamination would take place at the Industrial Waste Processor or at the Strauss Avenue Thermal Treatment Area (for significant and reactive levels of explosives contamination). If contamination is suspected outside the building, the area will be sampled to identify the type and degree of contamination present.

Building 268: Machine/Electronics Shop

Contaminants: Building 268 is adjacent to railroad tracks that may have historically been treated with an herbicide containing arsenic. If extensive earthwork in the immediate vicinity of the railroad tracks becomes necessary, the contractor performing the work must: a) consult with Health and Safety personnel to determine the appropriate personal protective equipment required to ensure worker safety, and b) consult with the NAVFAC PWD Site Indian Head Environmental Office to determine appropriate soil handling procedures.

Hazardous Wastes: Prior to demolition, Building 268 must be visually inspected to determine presence of hazardous wastes. If previously stored wastes are still present, NSWC or NAVFAC shops should remove and properly dispose of materials prior to demolition. All equipment should also be removed prior to demolition. If residual contamination is expected, ensure proper personal protective equipment (PPE) is utilized.

Hazardous Materials: Previously stored hazardous materials will be removed or recovered by NSWC or NAVFAC shops prior to demolition. An inspection will be performed after equipment is removed to identify any residual contamination. If residual contamination is found, any remediation and/or demolition will require adherence to MDE and federal hazardous material management regulations.

There are Ozone Depleting Substances found in a Split System Compressor. The contractor performing the work will include FAR Clause (23.804 a and b) regarding ODS in contract scope. Ensure that service records, disposal records, and new installation records are forwarded to NAVFAC refrigeration management office (POC Bill Summers, william.m.summers@navy.mil).

PCBs: If any Polychlorinated Biphenyl (PCB)-containing lighting ballasts or lamps are present, contractor performing the work will follow the Unified Facilities Guide Specifications, Section 02 84 16, "Handling of Lighting Ballasts and Lamps Containing PCBs and Mercury." If any other PCB-containing equipment is present, contractor performing the work will contact the Indian Head Environmental Office Hazardous Waste Program Manager (Mark Yeaton) for direction.

Asbestos: A survey of the building and its associated infrastructure for asbestos-containing material (ACM) is required prior to demolition. If ACM is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations.

Lead Paint: A survey of the building and its associated infrastructure for lead-containing paint is required prior to demolition. If lead-containing paint is found, any remediation and/or demolition will require adherence to MDE and federal lead-containing paint management regulations.

Munitions and Explosives of Concern: Prior to demolition, the building must be inspected by NSWC personnel to determine if explosives contamination is present. If suspected within the building, the building must be decontaminated using a high-pressure hot water power wash (to be performed by NSWC decontamination personnel). Any equipment to be relocated would be inspected for explosives contamination and would receive certification prior to relocation. Any equipment to be disposed of would be decontaminated prior to disposal if it were found to be

contaminated. Decontamination would take place at the Industrial Waste Processor or at the Strauss Avenue Thermal Treatment Area (for significant and reactive levels of explosives contamination). If contamination is suspected outside the building, the area will be sampled to identify the type and degree of contamination present.

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Building 314: PW Shops

Contaminants: Building 314 is adjacent to railroad tracks that may have historically been treated with an herbicide containing arsenic. If extensive earthwork in the immediate vicinity of the railroad tracks becomes necessary, the contractor performing the work must: a) consult with Health and Safety personnel to determine the appropriate personal protective equipment required to ensure worker safety, and b) consult with the NAVFAC PWD Site Indian Head Environmental Office to determine appropriate soil handling procedures.

Hazardous Waste: Prior to demolition, Building 314 must be visually inspected to determine presence of hazardous wastes. If previously stored wastes are still present, NSWC or NAVFAC shops should remove and properly dispose of materials prior to demolition. All equipment should also be removed prior to demolition. If residual contamination is expected, ensure proper personal protective equipment (PPE) is utilized.

Hazardous Materials: Previously stored hazardous materials will be removed or recovered by NSWC or NAVFAC shops prior to demolition. An inspection will be performed after equipment is removed to identify any residual contamination. If residual contamination is found, any remediation and/or demolition will require adherence to MDE and federal hazardous material management regulations.

There is the potential for Ozone Depleting Substances (ODS) contained within equipment at the building. The contractor performing the work will include FAR Clause (23.804 a and b) regarding ODS in contract scope. Ensure that service records, disposal records, and new installation records are forwarded to NAVFAC refrigeration management office (POC Bill Summers, william.m.summers@navy.mil).

PCBs: If any Polychlorinated Biphenyl (PCB)-containing lighting ballasts or lamps are present, contractor performing the work will follow the Unified Facilities Guide Specifications, Section 02 84 16, "Handling of Lighting Ballasts and Lamps Containing PCBs and Mercury." If any other PCB-containing equipment is present, contractor performing the work will contact the Indian Head Environmental Office Hazardous Waste Program Manager (Mark Yeaton) for direction.

Asbestos: A survey of the building and its associated infrastructure for asbestos-containing material (ACM) is required prior to demolition. If ACM is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations.

Lead Paint: A survey of the building and its associated infrastructure for lead-containing paint is required prior to demolition. If lead-containing paint is found, any remediation and/or demolition will require adherence to MDE and federal lead-containing paint management regulations.

Building 314A: Operational Storage

Hazardous Materials: There is the potential for Ozone Depleting Substances (ODS) contained within equipment at the building. The contractor performing the work will include FAR Clause (23.804 a and b) regarding ODS in contract scope. Ensure that service records, disposal records, and new installation records are forwarded to NAVFAC refrigeration management office (POC Bill Summers, william.m.summers@navy.mil).

PCBs: If any Polychlorinated Biphenyl (PCB)-containing lighting ballasts or lamps are present, contractor performing the work will follow the Unified Facilities Guide Specifications, Section 02 84 16, "Handling of Lighting Ballasts and Lamps Containing PCBs and Mercury." If any other PCB-containing equipment is present, contractor performing the work will contact the Indian Head Environmental Office Hazardous Waste Program Manager (Mark Yeaton) for direction.

Asbestos: A survey of the building and its associated infrastructure for asbestos-containing material (ACM) is required prior to demolition. If ACM is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations.

Lead Paint: A survey of the building and its associated infrastructure for lead-containing paint is required prior to demolition. If lead-containing paint is found, any remediation and/or demolition will require adherence to MDE and federal lead-containing paint management regulations.

Munitions and Explosives of Concern: Prior to demolition, the building must be inspected by NSWC personnel to determine if explosives contamination is present. If suspected within the building, the building must be decontaminated using a high-pressure hot water power wash (to be performed by NSWC decontamination personnel). Any equipment to be relocated would be inspected for explosives contamination and would receive certification prior to relocation. Any equipment to be disposed of would be decontaminated prior to disposal if it were found to be contaminated. Decontamination would take place at the Industrial Waste Processor or at the Strauss Avenue Thermal Treatment Area (for significant and reactive levels of explosives contamination). If contamination is suspected outside the building, the area will be sampled to identify the type and degree of contamination present.

Building 351: Office Building- PW

Hazardous Materials: There are Ozone Depleting Substances (ODS) in a Split System Compressor. The contractor performing the work will include FAR Clause (23.804 a and b) regarding ODS in contract scope. Ensure that service records, disposal records, and new installation records are forwarded to NAVFAC refrigeration management office (POC Bill Summers, william.m.summers@navy.mil).

Asbestos: A survey of the building and its associated infrastructure for asbestos-containing material (ACM) is required prior to demolition. If ACM is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations.

Lead Paint: A survey of the building and its associated infrastructure for lead-containing paint is required prior to demolition. If lead-containing paint is found, any remediation and/or demolition will require adherence to MDE and federal lead-containing paint management regulations

Building 376: Storage-Electrical

Hazardous Materials: There is the potential for Ozone Depleting Substances (ODS) contained within equipment at the building. The contractor performing the work will include FAR Clause (23.804 a and b) regarding ODS in contract scope. Ensure that service records, disposal records, and new installation records are forwarded to NAVFAC refrigeration management office (POC Bill Summers, william.m.summers@navy.mil).

Asbestos: A survey of the building and its associated infrastructure for asbestos-containing material (ACM) is required prior to demolition. If ACM is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations.

Lead Paint: A survey of the building and its associated infrastructure for lead-containing paint is required prior to demolition. If lead-containing paint is found, any remediation and/or demolition will require adherence to MDE and federal lead-containing paint management regulations.

Munitions and Explosives of Concern: Prior to demolition, the building must be inspected by NSWC personnel to determine if explosives contamination is present. If suspected within the building, the building must be decontaminated using a high-pressure hot water power wash (to be performed by NSWC decontamination personnel). Any equipment to be relocated would be inspected for explosives contamination and would receive certification prior to relocation. Any equipment to be disposed of would be decontaminated prior to disposal if it were found to be contaminated. Decontamination would take place at the Industrial Waste Processor or at the Strauss Avenue Thermal Treatment Area (for significant and reactive levels of explosives contamination). If contamination is suspected outside the building, the area will be sampled to identify the type and degree of contamination present.

Building 377B: Storage – Lumber/Miscellaneous

Contaminants: Building 377B is adjacent to railroad tracks that may have historically been treated with an herbicide containing arsenic. If extensive earthwork in the immediate vicinity of the railroad tracks becomes necessary, the contractor performing the work must: a) consult with Health and Safety personnel to determine the appropriate personal protective equipment required to ensure worker safety, and b) consult with the NAVFAC PWD Site Indian Head Environmental Office to determine appropriate soil handling procedures.

Hazardous Materials: There is the potential for Ozone Depleting Substances (ODS) contained within equipment at the building. The contractor performing the work will include FAR Clause (23.804 a and b) regarding ODS in contract scope. Ensure that service records, disposal records, and new installation records are forwarded to NAVFAC refrigeration management office (POC Bill Summers, william.m.summers@navy.mil).

PCBs: If any Polychlorinated Biphenyl (PCB)-containing lighting ballasts or lamps are present, contractor performing the work will follow the Unified Facilities Guide Specifications, Section 02 84 16, "Handling of Lighting Ballasts and Lamps Containing PCBs and Mercury." If any other PCB-containing equipment is present, contractor performing the work will contact the Indian Head Environmental Office Hazardous Waste Program Manager (Mark Yeaton) for direction.

Asbestos: A survey of the building and its associated infrastructure for asbestos-containing material (ACM) is required prior to demolition. If ACM is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations.

Lead Paint: A survey of the building and its associated infrastructure for lead-containing paint is required prior to demolition. If lead-containing paint is found, any remediation and/or demolition will require adherence to MDE and federal lead-containing paint management regulations.

Building 435: Engineering Offices Building

Hazardous Materials: Ozone Depleting Substances (ODS) are contained within 5 chillers at Building 435. The contractor performing the work will include FAR Clause (23.804 a and b) regarding ODS in contract scope. Ensure that service records, disposal records, and new installation records are forwarded to NAVFAC refrigeration management office (POC Bill Summers, william.m.summers@navy.mil).

Asbestos: A survey of the building and its associated infrastructure for asbestos-containing material (ACM) is required prior to demolition. If ACM is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations.

Lead Paint: A survey of the building and its associated infrastructure for lead-containing paint is required prior to demolition. If lead-containing paint is found, any remediation and/or demolition will require adherence to MDE and federal lead-containing paint management regulations.

Building 490: Engineering Offices Building

Contaminants/Munitions or Explosives of Concern: Due to association with IR Site 24, an Explosives Safety Submission (ESS) Determination Request will be prepared and submitted to NOSSA for review prior to demolition or earth work within this area. If NOSSA determines that an ESS is required for this demolition, the Navy will prepare an ESS. All demolition activities will proceed in accordance with the NOSSA-approved ESS. If NOSSA determines that an ESS is not required for this project, the contractor performing the work will follow any NOSSA-specified requirements during these demolition activities. To avoid the distribution of contaminated soils, any soil that is excavated at Building 490 must not be transported outside of IR Site 24. Any construction equipment that becomes covered in soil at this site (e.g., within tire treads or excavator buckets) must be washed down prior to leaving that site.

Hazardous Materials: Ozone Depleting Substances (ODS) are in a Split System Compressors. The contractor performing the work will include FAR Clause (23.804 a and b) regarding ODS in contract scope. Ensure that service records, disposal records, and new installation records are forwarded to NAVFAC refrigeration management office (POC Bill Summers, william.m.summers@navy.mil).

Asbestos: A survey of the building and its associated infrastructure for asbestos-containing material (ACM) is required prior to demolition. If ACM is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations.

Lead Paint: A survey of the building and its associated infrastructure for lead-containing paint is required prior to demolition. If lead-containing paint is found, any remediation and/or demolition will require adherence to MDE and federal lead-containing paint management regulations.

Building 503: Office Building- PW

Contaminants: Building 503 is adjacent to railroad tracks that may have historically been treated with an herbicide containing arsenic. Extent of earthwork near railroad tracks, and the associated risk of exposure to arsenic contamination, is expected to be minimal. If extensive earthwork in the immediate vicinity of the railroad tracks becomes necessary, the contractor performing the work must: a) consult with Health and Safety personnel to determine the appropriate personal protective equipment required to ensure worker safety, and b) consult with the NAVFAC PWD Site Indian Head Environmental Office to determine appropriate soil handling procedures.

Hazardous Materials: Ozone Depleting Substances are in a chiller at Building 503. The contractor performing the work will include FAR Clause (23.804 a and b) regarding ODS in contract scope. Ensure that service records, disposal records, and new installation records are forwarded to NAVFAC refrigeration management office (POC Bill Summers, william.m.summers@navy.mil).

PCBs: If any Polychlorinated Biphenyl (PCB)-containing lighting ballasts or lamps are present, contractor performing the work will follow the Unified Facilities Guide Specifications, Section 02 84 16, "Handling of Lighting Ballasts and Lamps Containing PCBs and Mercury." If any other PCB-containing equipment is present, contractor performing the work will contact the Indian Head Environmental Office Hazardous Waste Program Manager (Mark Yeaton) for direction.

Asbestos: A survey of the building and its associated infrastructure for asbestos-containing material (ACM) is required prior to demolition. If ACM is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations.

Lead Paint: A survey of the building and its associated infrastructure for lead-containing paint is required prior to demolition. If lead-containing paint is found, any remediation and/or demolition will require adherence to MDE and federal lead-containing paint management regulations.

Building 510: Railroad/Heavy Equipment Building

Contaminants: Building 510 is adjacent to railroad tracks that may have historically been treated with an herbicide containing arsenic. If extensive earthwork in the immediate vicinity of the railroad tracks becomes necessary, the contractor performing the work must: a) consult with Health and Safety personnel to determine the appropriate personal protective equipment required to ensure worker safety, and b) consult with the NAVFAC PWD Site Indian Head Environmental Office to determine appropriate soil handling procedures.

Hazardous Materials: There is the potential for Ozone Depleting Substances (ODS) contained within equipment at the building. The contractor performing the work will include FAR Clause (23.804 a and b) regarding ODS in contract scope. Ensure that service records, disposal records, and new installation records are forwarded to NAVFAC refrigeration management office (POC Bill Summers, william.m.summers@navy.mil).

USTs: There are three USTs within 100 feet of Building 510. Disposal of Underground Storage Tanks (USTs) must be coordinated with the Spill Prevention Control and Countermeasures Manager (Bobby Harrison, x2259). Removed tanks must be permanently closed in accordance with the requirements of 40 CFR Part 280 Subpart G and COMAR 26.10. Contractor performing the work must be an MDE-certified tank remover.

Asbestos: A survey of the building and its associated infrastructure for asbestos-containing material (ACM) is required prior to demolition. If ACM is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations.

Lead Paint: A survey of the building and its associated infrastructure for lead-containing paint is required prior to demolition. If lead-containing paint is found, any remediation and/or demolition will require adherence to MDE and federal lead-containing paint management regulations.

Munitions and Explosives of Concern: Prior to demolition the building must be inspected by NSWC personnel to determine if explosives contamination is present. If suspected within the building, the building must be decontaminated using a high-pressure hot water power wash (to be performed by NSWC decontamination personnel). Any equipment to be relocated would be inspected for explosives contamination and would receive certification prior to relocation. Any equipment to be disposed of would be decontaminated prior to disposal if it were found to be contaminated. Decontamination would take place at the Industrial Waste Processor or at the Strauss Avenue Thermal Treatment Area (for significant and reactive levels of explosives contamination). If contamination is suspected outside the building, the area will be sampled to identify the type and degree of contamination present.

Building 521: CBIRF Warehouse/Elec Shop

Contaminants: Building 521 is adjacent to railroad tracks that may have historically been treated with an herbicide containing arsenic. If extensive earthwork in the immediate vicinity of the railroad tracks becomes necessary, the contractor performing the work must: a) consult with Health and Safety personnel to determine the appropriate personal protective equipment required to ensure worker safety, and b) consult with the NAVFAC PWD Site Indian Head Environmental Office to determine appropriate soil handling procedures.

Hazardous Waste: Prior to demolition, Building 521 must be visually inspected to determine presence of hazardous wastes. If previously stored wastes are still present, CBIRF should remove and properly dispose of materials prior to demolition. All equipment should also be removed prior to demolition. If residual contamination is expected, ensure proper personal protective equipment (PPE) is utilized.

Hazardous Materials: Previously stored hazardous materials will be removed or recovered by CBIRF prior to demolition. An inspection will be performed after equipment is removed to identify any residual contamination. If residual contamination is found, any remediation and/or demolition will require adherence to MDE and federal hazardous material management regulations.

Ozone Depleting Substances (ODS) are in two chillers at Building 521. The contractor performing the work will include FAR Clause (23.804 a and b) regarding ODS in contract scope. Ensure that service records, disposal records, and new installation records are forwarded to NAVFAC refrigeration management office (POC Bill Summers, william.m.summers@navy.mil).

PCBs: If any Polychlorinated Biphenyl (PCB)-containing lighting ballasts or lamps are present, contractor performing the work will follow the Unified Facilities Guide Specifications, Section 02 84 16, "Handling of Lighting Ballasts and Lamps Containing PCBs and Mercury." If any other PCB-containing equipment is present, contractor performing the work will contact the Indian Head Environmental Office Hazardous Waste Program Manager (Mark Yeaton) for direction.

Asbestos: A survey of the building and its associated infrastructure for asbestos-containing material (ACM) is required prior to demolition. If ACM is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations.

Lead Paint: A survey of the building and its associated infrastructure for lead-containing paint is required prior to demolition. If lead-containing paint is found, any remediation and/or demolition will require adherence to MDE and federal lead-containing paint management regulations.

Munitions and Explosives of Concern: Prior to demolition, the building must be inspected by NSWC personnel to determine if explosives contamination is present. If suspected within the building, the building must be decontaminated using a high-pressure hot water power wash (to be performed by NSWC decontamination personnel). Any equipment to be relocated would be inspected for explosives contamination and would receive certification prior to relocation. Any equipment to be disposed of would be decontaminated prior to disposal if it were found to be

contaminated. Decontamination would take place at the Industrial Waste Processor or at the Strauss Avenue Thermal Treatment Area (for significant and reactive levels of explosives contamination). If contamination is suspected outside the building, the area will be sampled to identify the type and degree of contamination present.

Building 551: Office Building – PW

Contaminants: Building 551 is adjacent to railroad tracks that may have historically been treated with an herbicide containing arsenic. If extensive earthwork in the immediate vicinity of the railroad tracks becomes necessary, the contractor performing the work must: a) consult with Health and Safety personnel to determine the appropriate personal protective equipment required to ensure worker safety, and b) consult with the NAVFAC PWD Site Indian Head Environmental Office to determine appropriate soil handling procedures.

Asbestos: A survey of the building and its associated infrastructure for asbestos-containing material (ACM) is required prior to demolition. If ACM is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations.

Lead Paint: A survey of the building and its associated infrastructure for lead-containing paint is required prior to demolition. If lead-containing paint is found, any remediation and/or demolition will require adherence to MDE and federal lead-containing paint management regulations.

Building 627: General Storage Facility

Hazardous Materials: There is the potential for Ozone Depleting Substances (ODS) contained within equipment at the building. The contractor performing the work will include FAR Clause (23.804 a and b) regarding ODS in contract scope. Ensure that service records, disposal records, and new installation records are forwarded to NAVFAC refrigeration management office (POC Bill Summers, william.m.summers@navy.mil).

Asbestos: A survey of the building and its associated infrastructure for asbestos-containing material (ACM) is required prior to demolition. If ACM is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations.

Lead Paint: A survey of the building and its associated infrastructure for lead-containing paint is required prior to demolition. If lead-containing paint is found, any remediation and/or demolition will require adherence to MDE and federal lead-containing paint management regulations.

Building 639: Meter House Fresh

Hazardous Materials: There is the potential for Ozone Depleting Substances (ODS) contained within equipment at the building. The contractor performing the work will include FAR Clause (23.804 a and b) regarding ODS in contract scope. Ensure that service records, disposal records, and new installation records are forwarded to NAVFAC refrigeration management office (POC Bill Summers, william.m.summers@navy.mil).

PCBs: If any Polychlorinated Biphenyl (PCB)-containing lighting ballasts or lamps are present, contractor performing the work will follow the Unified Facilities Guide Specifications, Section 02 84 16, "Handling of Lighting Ballasts and Lamps Containing PCBs and Mercury." If any other PCB-containing equipment is present, contractor performing the work will contact the Indian Head Environmental Office Hazardous Waste Program Manager (Mark Yeaton) for direction.

Asbestos: A survey of the building and its associated infrastructure for asbestos-containing material (ACM) is required prior to demolition. If ACM is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations.

Lead Paint: A survey of the building and its associated infrastructure for lead-containing paint is required prior to demolition. If lead-containing paint is found, any remediation and/or demolition will require adherence to MDE and federal lead-containing paint management regulations.

Building 700: CBIRF Vehicle Maintenance Shop

Hazardous Materials: Previously stored hazardous materials will be removed or recovered by CBIRF prior to demolition. An inspection will be performed after equipment is removed to identify any residual contamination. If residual contamination is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations.

There is the potential for Ozone Depleting Substances (ODS) contained within equipment at the building. The contractor performing the work will include FAR Clause (23.804 a and b) regarding ODS in contract scope. Ensure that service records, disposal records, and new installation records are forwarded to NAVFAC refrigeration management office (POC Bill Summers, william.m.summers@navy.mil).

Hazardous Waste: Prior to demolition, Building 700 must be visually inspected to determine presence of hazardous wastes. If previously stored wastes are still present, CBIRF should remove and properly dispose of materials prior to demolition. All equipment should also be removed prior to demolition. If residual contamination is expected, ensure proper personal protective equipment (PPE) is utilized.

PCBs: If any Polychlorinated Biphenyl (PCB)-containing lighting ballasts or lamps are present, contractor performing the work will follow the Unified Facilities Guide Specifications, Section 02 84 16, "Handling of Lighting Ballasts and Lamps Containing PCBs and Mercury." If any other PCB-containing equipment is present, contractor performing the work will contact the Indian Head Environmental Office Hazardous Waste Program Manager (Mark Yeaton) for direction.

Asbestos: A survey of the building and its associated infrastructure for asbestos-containing material (ACM) is required prior to demolition. If ACM is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations.

Lead Paint: A survey of the building and its associated infrastructure for lead-containing paint is required prior to demolition. If lead-containing paint is found, any remediation and/or demolition will require adherence to MDE and federal lead-containing paint management regulations.

Munitions and Explosives of Concern: Prior to demolition, the building must be inspected by NSWC personnel to determine if explosives contamination is present. If suspected within the building, the building must be decontaminated using a high-pressure hot water power wash (to be performed by NSWC decontamination personnel). Any equipment to be relocated would be inspected for explosives contamination and would receive certification prior to relocation. Any equipment to be disposed of would be decontaminated prior to disposal if it were found to be contaminated. Decontamination would take place at the Industrial Waste Processor or at the Strauss Avenue Thermal Treatment Area (for significant and reactive levels of explosives contamination). If contamination is suspected outside the building, the area will be sampled to identify the type and degree of contamination present.

Building 870: Maintenance Shop- SEABEE'S

Hazardous Waste: Prior to demolition, Building 870 must be visually inspected to determine presence of hazardous wastes. If previously stored wastes are still present, SEABEE's shops should remove and properly dispose of materials prior to demolition. All equipment should also be removed prior to demolition. If residual contamination is expected, ensure proper personal protective equipment (PPE) is utilized.

Hazardous Materials: There is the potential for Ozone Depleting Substances (ODS) contained within equipment at the building. The contractor performing the work will include FAR Clause (23.804 a and b) regarding ODS in contract scope. Ensure that service records, disposal records, and new installation records are forwarded to NAVFAC refrigeration management office (POC Bill Summers, william.m.summers@navy.mil).

PCBs: If any Polychlorinated Biphenyl (PCB)-containing lighting ballasts or lamps are present, contractor performing the work will follow the Unified Facilities Guide Specifications, Section 02 84 16, "Handling of Lighting Ballasts and Lamps Containing PCBs and Mercury." If any other PCB-containing equipment is present, contractor performing the work will contact the Indian Head Environmental Office Hazardous Waste Program Manager (Mark Yeaton) for direction.

Asbestos: A survey of the building and its associated infrastructure for asbestos-containing material (ACM) is required prior to demolition. If ACM is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations.

Lead Paint: A survey of the building and its associated infrastructure for lead-containing paint is required prior to demolition. If lead-containing paint is found, any remediation and/or demolition will require adherence to MDE and federal lead-containing paint management regulations.

Building 1406: Transformer Station

Hazardous Materials: There is the potential for Ozone Depleting Substances (ODS) contained within equipment at the building. The contractor performing the work will include FAR Clause (23.804 a and b) regarding ODS in contract scope. Ensure that service records, disposal records, and new installation records are forwarded to NAVFAC refrigeration management office (POC Bill Summers, william.m.summers@navy.mil).

PCBs: If any Polychlorinated Biphenyl (PCB)-containing lighting ballasts or lamps are present, contractor performing the work will follow the Unified Facilities Guide Specifications, Section 02 84 16, "Handling of Lighting Ballasts and Lamps Containing PCBs and Mercury." If any other PCB-containing equipment is present, contractor performing the work will contact the Indian Head Environmental Office Hazardous Waste Program Manager (Mark Yeaton) for direction.

Asbestos: A survey of the building and its associated infrastructure for asbestos-containing material (ACM) is required prior to demolition. If ACM is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations.

Lead Paint: A survey of the building and its associated infrastructure for lead-containing paint is required prior to demolition. If lead-containing paint is found, any remediation and/or demolition will require adherence to MDE and federal lead-containing paint management regulations.

Building 1407: Transformer Station

Hazardous Materials: There is the potential for Ozone Depleting Substances (ODS) contained within equipment at the building. The contractor performing the work will include FAR Clause (23.804 a and b) regarding ODS in contract scope. Ensure that service records, disposal records, and new installation records are forwarded to NAVFAC refrigeration management office (POC Bill Summers, william.m.summers@navy.mil).

PCBs: If any Polychlorinated Biphenyl (PCB)-containing lighting ballasts or lamps are present, contractor performing the work will follow the Unified Facilities Guide Specifications, Section 02 84 16, "Handling of Lighting Ballasts and Lamps Containing PCBs and Mercury." If any other PCB-containing equipment is present, contractor performing the work will contact the Indian Head Environmental Office Hazardous Waste Program Manager (Mark Yeaton) for direction.

Asbestos: A survey of the building and its associated infrastructure for asbestos-containing material (ACM) is required prior to demolition. If ACM is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations.

Lead Paint: A survey of the building and its associated infrastructure for lead-containing paint is required prior to demolition. If lead-containing paint is found, any remediation and/or demolition will require adherence to MDE and federal lead-containing paint management regulations.

Building 1489: Filling Station

Hazardous Materials/USTs: Building 1489 is the filling station for the three Underground Storage Tanks (USTs) at 1979. Disposal of USTs must be coordinated with the Spill Prevention Control and Countermeasures Manager (Bobby Harrison, x2259). Removed tanks must be permanently closed in accordance with the requirements of 40 CFR Part 280 Subpart G and COMAR 26.10. Contractor performing the work must be an MDE-certified tank remover.

Hazardous Materials: There is the potential for Ozone Depleting Substances (ODS) contained within equipment at the building. The contractor performing the work will include FAR Clause (23.804 a and b) regarding ODS in contract scope. Ensure that service records, disposal records, and new installation records are forwarded to NAVFAC refrigeration management office (POC Bill Summers, william.m.summers@navy.mil).

Asbestos: A survey of the building and its associated infrastructure for asbestos-containing material (ACM) is required prior to demolition. If ACM is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations.

Lead Paint: A survey of the building and its associated infrastructure for lead-containing paint is required prior to demolition. If lead-containing paint is found, any remediation and/or demolition will require adherence to MDE and federal lead-containing paint management regulations.

Building 1732: Cooling Tower- Water

Hazardous Materials: There is the potential for Ozone Depleting Substances (ODS) contained within equipment at the building. The contractor performing the work will include FAR Clause (23.804 a and b) regarding ODS in contract scope. Ensure that service records, disposal records, and new installation records are forwarded to NAVFAC refrigeration management office (POC Bill Summers, william.m.summers@navy.mil).

Asbestos: A survey of the building and its associated infrastructure for asbestos-containing material (ACM) is required prior to demolition. If ACM is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations.

Lead Paint: A survey of the building and its associated infrastructure for lead-containing paint is required prior to demolition. If lead-containing paint is found, any remediation and/or demolition will require adherence to MDE and federal lead-containing paint management regulations.

Building 1753: Storage Shed

Hazardous Materials: There is the potential for Ozone Depleting Substances (ODS) contained within equipment at the building. The contractor performing the work will include FAR Clause (23.804 a and b) regarding ODS in contract scope. Ensure that service records, disposal records, and new installation records are forwarded to NAVFAC refrigeration management office (POC Bill Summers, william.m.summers@navy.mil).

Hazardous Waste: Prior to demolition, Building 1753 must be visually inspected to determine presence of hazardous wastes. If previously stored wastes are still present, NSWC or NAVFAC shops should remove and properly dispose of materials prior to demolition. All equipment should also be removed prior to demolition. If residual contamination is expected, ensure proper personal protective equipment (PPE) is utilized.

Asbestos: A survey of the building and its associated infrastructure for asbestos-containing material (ACM) is required prior to demolition. If ACM is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations.

Lead Paint: A survey of the building and its associated infrastructure for lead-containing paint is required prior to demolition. If lead-containing paint is found, any remediation and/or demolition will require adherence to MDE and federal lead-containing paint management regulations.

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Building 1800: Storage Box- HAZ WST MAT

Hazardous Materials: There is the potential for Ozone Depleting Substances (ODS) contained within equipment at the building. The contractor performing the work will include FAR Clause (23.804 a and b) regarding ODS in contract scope. Ensure that service records, disposal records, and new installation records are forwarded to NAVFAC refrigeration management office (POC Bill Summers, william.m.summers@navy.mil).

Hazardous Waste: Prior to demolition, Building 1800 must be visually inspected to determine presence of hazardous wastes. If previously stored wastes are still present, NSWC or NAFVAC shops should remove and properly dispose of materials prior to demolition. All equipment should also be removed prior to demolition. If residual contamination is expected, ensure proper personal protective equipment (PPE) is utilized.

Asbestos: A survey of the building and its associated infrastructure for asbestos-containing material (ACM) is required prior to demolition. If ACM is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations.

Lead Paint: A survey of the building and its associated infrastructure for lead-containing paint is required prior to demolition. If lead-containing paint is found, any remediation and/or demolition will require adherence to MDE and federal lead-containing paint management regulations.

Building 1894: Storage Building- Chemicals

Hazardous Materials: Previously stored hazardous materials will be removed or recovered by NSWC or NAVFAC shops prior to demolition. An inspection will be performed after equipment is removed to identify any residual contamination. If residual contamination is found, any remediation and/or demolition will require adherence to MDE and federal hazardous material management regulations.

There is the potential for Ozone Depleting Substances (ODS) contained within equipment at the building. The contractor performing the work will include FAR Clause (23.804 a and b) regarding ODS in contract scope. Ensure that service records, disposal records, and new installation records are forwarded to NAVFAC refrigeration management office (POC Bill Summers, william.m.summers@navy.mil).

Asbestos: A survey of the building and its associated infrastructure for asbestos-containing material (ACM) is required prior to demolition. If ACM is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations..

Lead Paint: A survey of the building and its associated infrastructure for lead-containing paint is required prior to demolition. If lead-containing paint is found, any remediation and/or demolition will require adherence to MDE and federal lead-containing paint management regulations.

Building 1905: Transformer Station

Hazardous Materials: There is the potential for Ozone Depleting Substances (ODS) contained within equipment at the building. The contractor performing the work will include FAR Clause (23.804 a and b) regarding ODS in contract scope. Ensure that service records, disposal records, and new installation records are forwarded to NAVFAC refrigeration management office (POC Bill Summers, william.m.summers@navy.mil).

PCBs: If any Polychlorinated Biphenyl (PCB)-containing lighting ballasts or lamps are present, contractor performing the work will follow the Unified Facilities Guide Specifications, Section 02 84 16, "Handling of Lighting Ballasts and Lamps Containing PCBs and Mercury." If any other PCB-containing equipment is present, contractor performing the work will contact the Indian Head Environmental Office Hazardous Waste Program Manager (Mark Yeaton) for direction.

Asbestos: A survey of the building and its associated infrastructure for asbestos-containing material (ACM) is required prior to demolition. If ACM is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations.

Lead Paint: A survey of the building and its associated infrastructure for lead-containing paint is required prior to demolition. If lead-containing paint is found, any remediation and/or demolition will require adherence to MDE and federal lead-containing paint management regulations.

Building 1919: Refrig – Recover and Recycle

Hazardous Materials: Ozone Depleting Substances (ODS) are found in seven (7) appliances at Building 1919. The contractor performing the work will include FAR Clause (23.804 a and b) regarding ODS in contract scope. Ensure that service records, disposal records, and new installation records are forwarded to NAVFAC refrigeration management office (POC Bill Summers, william.m.summers@navy.mil).

Hazardous Waste: Building 1919 served as a non-explosive 90-day waste site that was closed in 1999. Prior to demolition, the building must be visually inspected to determine presence of residual contamination. If residual contamination is expected, ensure proper personal protective equipment (PPE) is utilized.

Asbestos: A survey of the building and its associated infrastructure for asbestos-containing material (ACM) is required prior to demolition. If ACM is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations.

Lead Paint: A survey of the building and its associated infrastructure for lead-containing paint is required prior to demolition. If lead-containing paint is found, any remediation and/or demolition will require adherence to MDE and federal lead-containing paint management regulations.

Building 1979: Fuel Tank Area

Hazardous Materials: There is the potential for Ozone Depleting Substances (ODS) contained within equipment at the building. The contractor performing the work will include FAR Clause (23.804 a and b) regarding ODS in contract scope. Ensure that service records, disposal records, and new installation records are forwarded to NAVFAC refrigeration management office (POC Bill Summers, william.m.summers@navy.mil).

Hazardous Materials/USTs: There are three Underground Storage Tanks (USTs) for gasoline and diesel fuel storage at Building 1979. Disposal of USTs must be coordinated with the Spill Prevention Control and Countermeasures Manager (Bobby Harrison, x2259). Removed tanks must be permanently closed in accordance with the requirements of 40 CFR Part 280 Subpart G and COMAR 26.10. Contractor performing the work must be an MDE-certified tank remover.

Asbestos: A survey of the building and its associated infrastructure for asbestos-containing material (ACM) is required prior to demolition. If ACM is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations.

Lead Paint: A survey of the building and its associated infrastructure for lead-containing paint is required prior to demolition. If lead-containing paint is found, any remediation and/or demolition will require adherence to MDE and federal lead-containing paint management regulations.

Building 3034: Vehicle Washdown Facilities- CBIRF

Contaminants: Building 3034 is adjacent to railroad tracks that may have historically been treated with an herbicide containing arsenic. If extensive earthwork in the immediate vicinity of the railroad tracks becomes necessary, the contractor performing the work must: a) consult with Health and Safety personnel to determine the appropriate personal protective equipment required to ensure worker safety, and b) consult with the NAVFAC PWD Site Indian Head Environmental Office to determine appropriate soil handling procedures.

Hazardous Materials: There is the potential for Ozone Depleting Substances (ODS) contained within equipment at the building. The contractor performing the work will include FAR Clause (23.804 a and b) regarding ODS in contract scope. Ensure that service records, disposal records, and new installation records are forwarded to NAVFAC refrigeration management office (POC Bill Summers, william.m.summers@navy.mil).

USTs: Building 3034 is within 100 feet of the three Underground Storage Tanks (USTs) at Building 1979. Disposal of USTs must be coordinated with the Spill Prevention Control and Countermeasures Manager (Bobby Harrison, x2259). Removed tanks must be permanently closed in accordance with the requirements of 40 CFR Part 280 Subpart G and COMAR 26.10. Contractor performing the work must be an MDE-certified tank remover.

Asbestos: A survey of the building and its associated infrastructure for asbestos-containing material (ACM) is required prior to demolition. If ACM is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations.

Lead Paint: A survey of the building and its associated infrastructure for lead-containing paint is required prior to demolition. If lead-containing paint is found, any remediation and/or demolition will require adherence to MDE and federal lead-containing paint management regulations.

Building 3035: Loading Dock – Heavy Duty

Contaminants: Building 3035 is adjacent to railroad tracks that may have historically been treated with an herbicide containing arsenic. If extensive earthwork in the immediate vicinity of the railroad tracks becomes necessary, the contractor performing the work must: a) consult with Health and Safety personnel to determine the appropriate personal protective equipment required to ensure worker safety, and b) consult with the NAVFAC PWD Site Indian Head Environmental Office to determine appropriate soil handling procedures.

Hazardous Materials: There is the potential for Ozone Depleting Substances (ODS) contained within equipment at the building. The contractor performing the work will include FAR Clause (23.804 a and b) regarding ODS in contract scope. Ensure that service records, disposal records, and new installation records are forwarded to NAVFAC refrigeration management office (POC Bill Summers, william.m.summers@navy.mil).

USTs: Building 3035 is within 100 feet of the three Underground Storage Tanks (USTs) at Building 1979. Disposal of USTs must be coordinated with the Spill Prevention Control and Countermeasures Manager (Bobby Harrison, x2259). Removed tanks must be permanently closed in accordance with the requirements of 40 CFR Part 280 Subpart G and COMAR 26.10. Contractor performing the work must be an MDE-certified tank remover.

Asbestos: A survey of the building and its associated infrastructure for asbestos-containing material (ACM) is required prior to demolition. If ACM is found, any remediation and/or demolition will require adherence to MDE and federal asbestos management regulations.

Lead Paint: A survey of the building and its associated infrastructure for lead-containing paint is required prior to demolition. If lead-containing paint is found, any remediation and/or demolition will require adherence to MDE and federal lead-containing paint management regulations.

Preliminary Final

Environmental Condition of Property Report Enhanced Use Lease for Data Center

Naval Support Facility, Indian Head Indian Head, Maryland

Prepared for:

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Public Works Department
NSF Indian Head
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Updated July 15, 2010

NAVFACWASH Contract No. N40080-08-D-0307
Delivery Order No. 0037

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ENVIRONMENTAL CONDITION OF PROPERTY (ECP) CHECKLIST

Installation: Naval Support Facility Indian Head

Parcel/Site Location and Description: The potential data center, often referred to as the "Snow Cone" Area, is located in the northern most section of Cornwallis Neck. It encompasses an approximately 16-acre area that is outlined by Earle Road to the west, Mason Road to the north, CDC Drive to the east, and Couden Road to the east and south. The area is crossed by Perkins Street, Haines Street, Mauldin Street, and Holden Drive. The area borders an area that is leased and under development by Lincoln Properties.

Proposed Real Estate Action Description: This property would be leased to a private developer for potential redevelopment with light industrial facilities, potentially including a data center.

SITE SUMMARY INFORMATION

1. Information regarding site uses and any hazardous materials, contamination, or conditions. All available and pertinent files, records, reports and aerial photographs were reviewed and, where necessary, a site inspection and/or personal interviews were conducted to document the environmental conditions of the property to support the proposed real estate action. A summary of the conditions, sources of information (including location), and any required use restrictions are provided for each environmental condition.

A. Parcel/Site Uses:

Prior Uses: This area was previously used as a housing area for base personnel and their families. Many of the housing units were established during the WWII time frame when almost 1,000 new residential units were constructed on and off the base. None of the buildings currently remain within the area. The area had also been used for mobile housing units. None of these units currently remain within the area.

Current Uses: This area is vacant land that currently has roads, concrete pads, and utility lines from previous use as a housing area.

Future Uses: Leased to a private developer for light industrial facilities.

B. Contaminants: ☒ Yes ☐ No ☐ Unknown

If yes, identify contaminant and media: From this area's past use as a housing site, there is the potential for minor contamination from residential application of pesticides or other chemicals. The area is bordered on the south and east ends by a fence that has been identified as a Worker Notification Area due to potential contamination with arsenic. The fence is on the opposite side of Couden Road from the area of interest. There is potential of contaminant migration, however significant contamination is not expected within the subject area.

Source of information: Current Geographic Information System (GIS) Database; IR Program studies; interviews with Tommy Wright, Bobby Harrison, and Nick Carros, Environmental Program Office

Restrictions or Land Use Controls: ☐ Yes ☒ No

If yes, please identify and explain in detail in Section 2 below.

C. Hazardous Materials Use: ☐ Yes ☒ No ☐ Unknown

Hazardous Materials Storage: ☐ Yes ☒ No ☐ Unknown

Type of HM: N/A

Type of Use and/or Storage: N/A

Source of information: Mark Yeaton, Environmental Program Office

Restrictions or Land Use Controls: ☐ Yes ☒ No

If yes, please identify and explain in detail in Section 2 below.

D. Treatment, Storage, Disposal of Hazardous Waste: ☐ Yes ☒ No ☐ Unknown

Source of information:

Mark Yeaton, Environmental Program Office

Restrictions or Land Use Controls: ☐ Yes ☒ No

If yes, please identify and explain in detail in Section 2 below.

E. Underground Storage Tanks: ☐ Yes ☒ No ☐ Unknown

UST No._____ Gals. _____

Source of information: The former housing area utilized ASTs not USTs for fuel oil storage; therefore, there is no historical use of USTs. No USTs are currently within the subject area.

Bobby Harrison, Environmental Program Office; Current GIS Data

Restrictions or Land Use Controls: ☐ Yes ☒ No

If yes, please identify and explain in detail in Section 2 below.

F. Above-Ground Storage Tanks: ☐ Yes ☒ No

AST No._____ Gals. _____

Source of information: As a former housing area, there is potential for past use of ASTs for residential application. No ASTs are currently present at the location. Contamination from AST use is expected to be minimal.

Current GIS Data; Bobby Harrison, Environmental Program Office

Restrictions or Land Use Controls: ☐ Yes ☒ No

If yes, please identify and explain in detail in Section 2 below.

G. Presence of Polychlorinated Biphenyl's (PCB's): ☐ Yes ☐ No ☒ Unknown

Source of information: There are two transformer poles within the area. One pole has two transformers and the other has three transformers. It is unknown if these transformers contain PCBs.

Current GIS Data

Restrictions or Land Use Controls: ☒ Yes ☐ No

If yes, please identify and explain in detail in Section 2 below.

H. Asbestos: ☐ Yes ☒ No ☐ Unknown

If yes: ☐ Friable ☐ Non-friable ☐ Unknown

Source of information: No buildings exist within the area.

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Restrictions or Land Use Controls: ☐ Yes ☒ No

If yes, please identify and explain in detail in Section 2 below.

I. Lead Paint: ☐ Yes ☐ No ☒ Unknown

Source of information: No buildings currently exist within the subject area. During the time the area was used for housing, it was common for paint that was used on both the exterior and interior of the buildings to be lead containing. Minor contamination from peeling paint could be present, but due to the amount of time since buildings were in the area, it is not of concern.

Nick Carros, Environmental Programs Office

Restrictions or Land Use Controls: ☐ Yes ☒ No

If yes, please identify and explain in detail in Section 2 below.

J. Radon: ☐ Yes ☒ No ☐ Unknown

Source of information: Radon survey performed in the 1980s. Likely no radon levels of concern.

Mark Yeaton, Environmental Program Office

Restrictions or Land Use Controls: ☐ Yes ☒ No

If yes, please identify and explain in detail in Section 2 below.

K. Radiological Materials: ☐ Yes ☒ No ☐ Unknown

Source of information: Mark Yeaton, Environmental Program Office

Restrictions or Land Use Controls: ☐ Yes ☒ No

If yes, please identify and explain in detail in Section 2 below.

L. Solid/Bio-Hazardous Waste: ☐ Yes ☒ No ☐ Unknown

Source of information: Land is currently vacant and has not been used for the storage or disposal of solid or bio-hazardous waste.

Nicholas Carros, Environmental Programs Office

Restrictions or Land Use Controls: ☐ Yes ☒ No

If yes, please identify and explain in detail in Section 2 below.

M. Munitions and Explosives of Concern: ☐ Yes ☒ No ☐ Unknown

Source of information: The area is not located within a Munitions Response Program (MRP) Site based on current GIS data.

Restrictions or Land Use Controls: ☐ Yes ☒ No

If yes, please identify and explain in detail in Section 2 below.

N. Threatened or Endangered Species: ☐ Yes ☒ No ☐ Unknown

Source of information:

Current GIS Data

Restrictions or Land Use Controls: ☐ Yes ☒ No

If yes, please identify and explain in detail in Section 2 below.

O. Natural or Cultural Resources: ☐ Yes ☒ No ☐ Unknown

Source of information: A portion of this area was identified as having the potential for containing cultural resources. A Phase 1 Archeological Survey was performed on the area in June 2010. During the survey, no archeological artifacts were encountered at the site. The area includes a Bald Eagle's nest located along Haines Road called the Riverview Nest. It is considered an active nest that during an April 2010 survey had two chicks approximately 15 days old.

R. Christopher Goodwin & Associates, Inc.; Seth Berry, Natural Resources Manager

Restrictions or Land Use Controls: ☒ Yes ☐ No

If yes, please identify and explain in detail in Section 2 below.

P. Use of Adjacent Property:

Current Use: The area bordering the north and east is used for residential housing and community support. Building 1600 to the northwest is the Medical and Dental Clinic. To the west is forest. To the south and east along Couden Road is Charles County property which includes athletic fields.

Past Use: The surrounding area was previously used for housing and community support as it is currently.

Source of information: Current and historical building database; GIS data; Phase I Archeological and Phase II historic Architectural Investigations Naval Surface Warfare Center, Indian Head, Charles County, Maryland. Volume 1. TAMS Consultants, Inc. 1995.; Phase I Cultural Resources Survey of Stump Neck Annex and Supplemental Architectural Investigations, Indian Head Naval Surface Warfare Center, Charles County, Maryland. R. Christopher Goodwin and Associates, Inc. 1998.

Restrictions or Land Use Controls: ☐ Yes ☒ No

If yes, please identify and explain in detail in Section 2 below.

Q. Has the site had any Notices of Violation? ☐ Yes ☒ No.

If yes, please explain:

Source of information: Mark Yeaton, Environmental Program Office

Restrictions or Land Use Controls: ☐ Yes ☒ No

If yes, please identify and explain in detail in Section 2 below.

R. Additional information or comments regarding questions shown above (*attach sheet(s) if additional room is needed*):

.

Source of information:

Restrictions or Land Use Controls: ☐ Yes ☒ No

If yes, please identify and explain in detail in Section 2 below.

2. List of Land Use Controls required for Real Estate Action:

PCBs: The five transformers must be inspected for the presence of PCBs. If any PCB-containing equipment is present, contractor will dispose of the equipment properly.

Natural or Cultural Resources: For actions within 750 feet of the bald eagle nest, the U.S. Fish and Wildlife Services (USFWS) would be consulted to address potential adverse effects to the nest due to construction activities and removal of surrounding trees. Potential Time of Year (TOY) restriction may have to be implemented. In the event that removal of the bald eagle nest itself is required, USFWS would be consulted to address the mitigation procedures involved with an intentional "take" of a bald eagle or its nest. If the nest is removed, TOY restrictions would not apply to the area.

3. Signature:

Based on records reviews, site inspections, and interviews, the environmental professional(s) certify that the environmental conditions of the property are as stated in this document and this property is suitable for outgrant.

Environmental Professional:

Signature	Title
Print Name	Date

The real estate professional(s) acknowledge these restrictions and/or LUCs identified above and will ensure they are made a part of the outgrant document.

Real Estate Professional:

Signature	Title
Print Name	Date

Property Owner (Activity or Region) acknowledges and accepts the foregoing statement of environmental conditions and the land use controls (if any) that will be required for this real estate outgrant:

Signature	Title
Print Name	Date

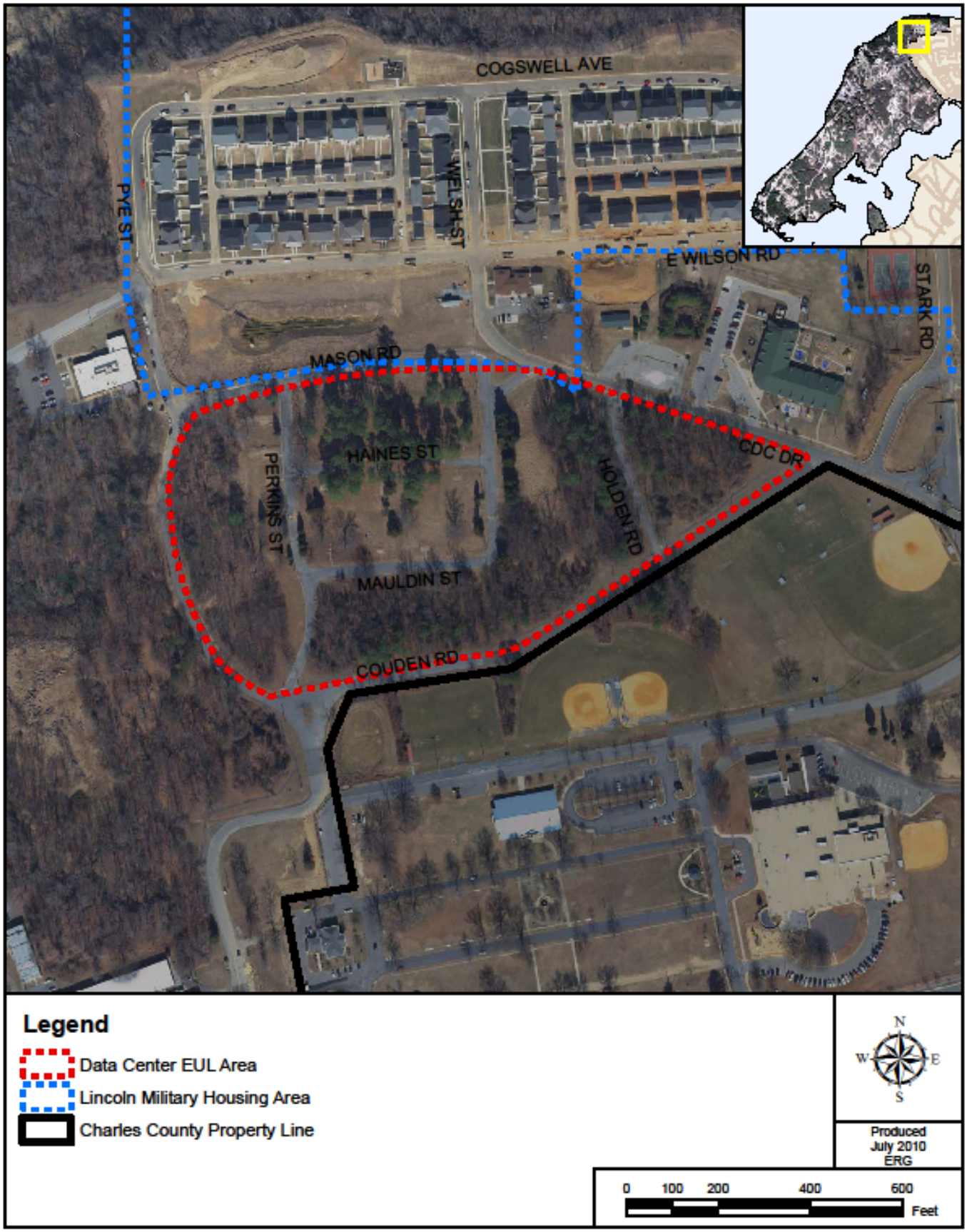

Figure 1: Aerial Map of Data Center EUL Area

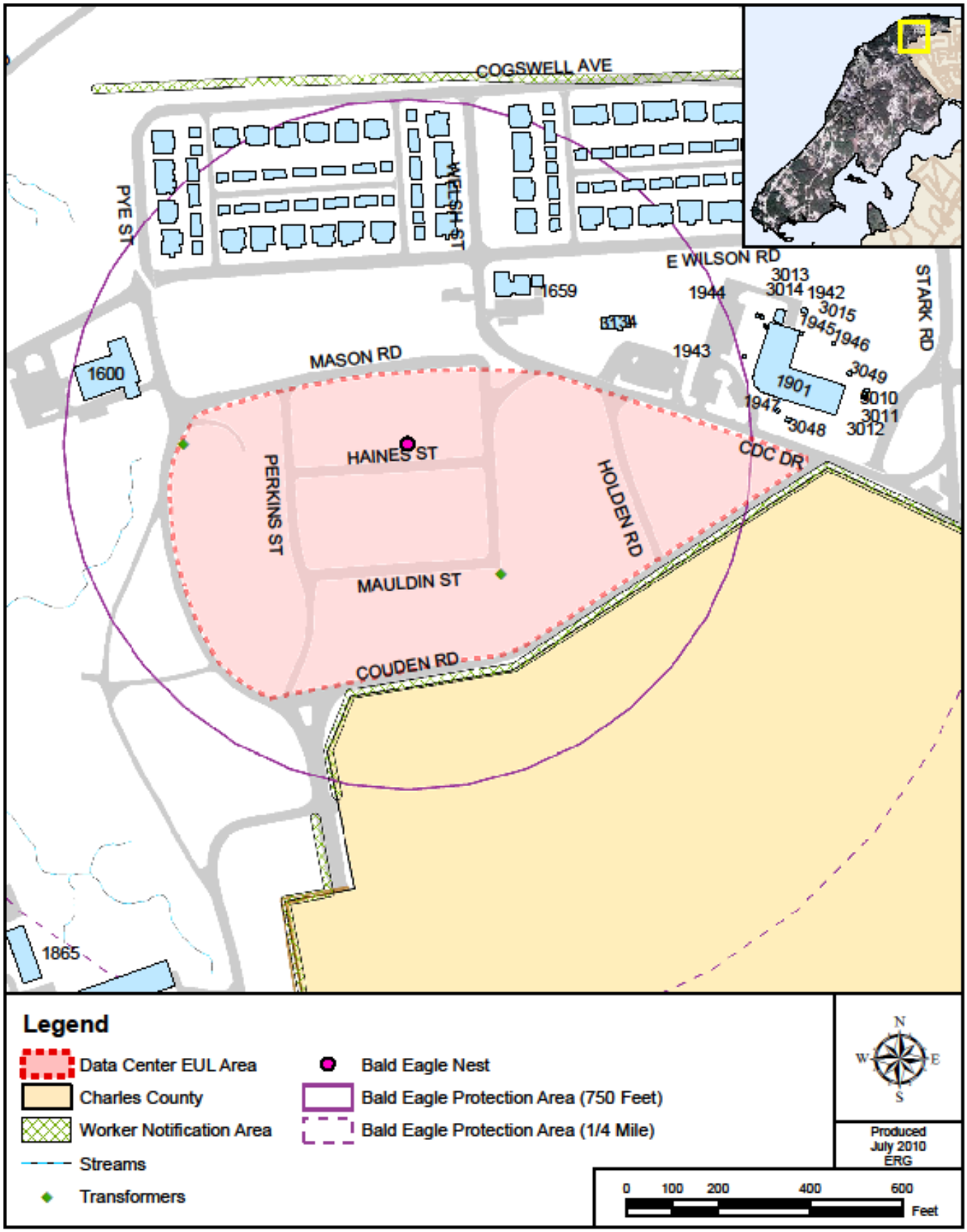

Figure 2: Environmental Constraints in Vicinity of Data Center EUL Area