

FINAL

**ENVIRONMENTAL CONDITION OF
PROPERTY REPORT**

**BLOOMSBURG
U.S. ARMY RESERVE CENTER (PA009)
1469 OLD BERWICK ROAD
BLOOMSBURG, PA 17815**

Prepared For:

**U.S. Army Corps of Engineers – Louisville District
Engineering Division – Environmental Engineering Branch
600 Dr. Martin Luther King, Jr. Place
Louisville, Kentucky 40202-2232**

FEBRUARY 2007

CERTIFICATION

All information/documentation provided accurately reflects the environmental condition of the property. This ECP Report is in general accordance with the U.S. Department of Defense (DOD) requirements for completion of an Environmental Condition of Property (ECP) Report.

BRUCE L. KISH
Environmental Protection Specialist
99TH Regional Readiness Command

DATE

The undersigned certifies the contents of this report are in general accordance with DoD policies for the completion of an ECP.

LENARD GUNNELL, P.G
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DATE

Executive Summary

CH2M HILL and Plexus Scientific Corporation (Plexus), under contract to the United States Army Corps of Engineers (USACE), Louisville District, have prepared this Environmental Condition of Property (ECP) Report for the Bloomsburg United States Army Reserve (USAR) Center (Facility ID PA009), hereafter referred to as the "Property" or "USAR Center." The Property is in Bloomsburg, Columbia County, Pennsylvania and encompasses approximately 2.01 acres.

This ECP was conducted in general conformance with the Department of Defense's Base Redevelopment and Realignment Manual, DoD 4165.77-M (BRRM), Army Regulation 200-1, and the American Society for Testing and Materials (ASTM) Designation D 6008-96 (2005), *Standard Practice for Conducting Environmental Baseline Surveys*.

This ECP Report details the history of the Property, including the U.S. Army Reserve and any prior tenant uses of the Site and the resulting environmental condition of the Property.

The USAR Center is on approximately 2.01 acres of land with two permanent structures, a 4,400 square-foot administration building and a 1,200 square-foot organizational maintenance shop (OMS) building. The USAR Center is currently occupied by the 542nd Quartermaster Company.

Based on a review of aerial photographs and United States Geological Survey (USGS) topographical maps dating back to 1894, the Property was undeveloped prior to construction of the USAR Center. The administrative building and OMS building were constructed in 1956 and 1965, respectively. The USAR Center Property was leased by the United States Government prior to purchase in 1965.

Areas of potential environmental concern were reviewed, and CH2M HILL and Plexus found evidence indicating the potential release of hazardous substances on the Property. A 1995 Installation Restoration Program/Installation Action Plan (IRP/IAP) (U.S. Army, 1995a) identified two Restoration Management Information System (RMIS) sites on the Property: 1) OMS vehicle service pit containing interior surfaces and (potentially) subsurface soils contaminated with industrial liquid wastes, and 2) waste petroleum, oil, lubricant (POL), and herbicides used to control vegetation along the OMS/MEP fence lines. The vehicle maintenance pit was later closed under the IRP program and filled with concrete. A Preliminary Assessment (PA) was prepared in 1994 for the waste disposal along the OMS/MEP fence lines. The PA suggested that a Focused Site Investigation (FSI) and possible remediation is required due to stressed vegetation and visible soil staining. No additional information was available concerning the performance of additional investigations and/or remediation in this area.

A leach pit, located northwest of the OMS building, received rinse water from the vehicle wash area. The vehicle wash area is not equipped with an oil/water separator (OWS) nor is it connected to the municipal sewer system. No information concerning the sampling of soil in the leach pit area or the waste streams to the pit were available.

Two fuel oil underground storage tanks (USTs) used to heat the administrative and OMS buildings were removed from the Property on October 29, 1996. Laboratory analysis of soil samples collected from the excavations and the stockpiled soil indicated that all results were below the regulatory action levels. Because the tanks stored fuel oil for purpose of space heating, the tanks were exempt from registration with Pennsylvania Department of Environmental Protection (PADEP) (Engineering Technologies Associates, 1996).

In accordance with Department of Defense (DoD) policy defining the classifications (See Sherri Goodman Memorandum dated 21 October 1996), the Property has been classified as Type 7. This classification does not include categorizing the property based on *de minimis* conditions that generally do not present material risk of harm to the public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

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Abbreviations and Acronyms

The following is a comprehensive list of abbreviations and acronyms that are used throughout this report.

ACM	asbestos-containing material
AMSA	Area Maintenance and Support Activity
AR	Army Regulation
AST	aboveground storage tank
ASTM	American Society for Testing and Materials
BRAC	Base Realignment and Closure
BRRM	Base Redevelopment and Realignment Manual
BTEX	benzene, toluene, ethylbenzene, and total xylenes
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	CERCLA Information System
CFR	Code of Federal Regulations
CONEX	Container Express
CORRACTS	Corrective Actions
DoD	Department of Defense
ECP	environmental condition of property
EDR	Environmental Data Resources, Inc.
ERNS	Emergency Response Notification System
FEMA	Federal Emergency Management Agency
FSI	Focused Site Investigation
IAP	Installation Action Plan
IRP	Installation Restoration Program
kg	kilogram
LBP	lead-based paint
LUST	leaking underground storage tank
MEC	munitions and explosives of concern
MEP	military equipment parking

msl	mean sea level
NGVD	National Geodetic Vertical Datum
NPL	National Priorities List
OMS	organizational maintenance shop
OWS	oil/water separator
PA	Preliminary Assessment
PCB	polychlorinated biphenyl
pCi/L	picoCuries per liter
PADEP	Pennsylvania Department of Environmental Protection
POL	petroleum, oil, and lubricant
POV	privately owned vehicle
PP&L	Pennsylvania Power & Light
PSOTNC	Pennsylvania Science Office of The Nature Conservancy
RCRA	Resource Conservation and Recovery Act
RCRIS	RCRA Information System
RMIS	Restoration Management Information System
RQ	reportable quantity
RRC	Regional Readiness Command
SI	Site Investigation
SWPPP	Storm Water Pollution Prevention Plan
SQG	Small Quantity Generator
STATSGO	State Soil Geographic Database
TSD	treatment, storage, or disposal
USACE	United States Army Corps of Engineers
USAEC	United States Army Environmental Center
USAR	United States Army Reserve
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
UST	underground storage tank
WSR	wild and scenic river

1 Introduction

CH2M HILL, under contract to the U.S. Army Corps of Engineers (USACE) Louisville District Engineering Division was authorized to conduct an Environmental Condition of Property (ECP) report for the Bloomsburg U.S. Army Reserve (USAR) Center (PA009). The facility is located at 1469 Old Berwick Road in Bloomsburg, Columbia County, Pennsylvania and is hereafter referred to as the "Property" or "USAR Center." CH2M HILL and Plexus Scientific Corporation prepared this ECP report under contract number W912QR-04-D-0020, Task Order No. 0018, with the Louisville District USACE.

A visual non-intrusive reconnaissance of the Property was conducted on August 9, 2006 in support of the ECP. The reconnaissance purpose was to visually obtain information indicating the likelihood of recognized environmental conditions associated with the Property or adjacent properties.

In preparing this ECP report, CH2M HILL and Plexus Scientific Corporation gathered information from the reasonably available records and previous work from others; interviews with individuals purporting to be familiar with the Property; and observations from a site reconnaissance. The accuracy of the information obtained from these sources was not verified by CH2M HILL or Plexus Scientific Corporation. As such, CH2M HILL and Plexus will make no warranty, expressed or implied, relative to the accuracy, completeness, or reliability of the information used to create the records and reports prepared by others.

1.1 Purpose of Environmental Condition of Property (ECP)

The Military Department with real property accountability shall assess, determine and document the environmental condition of all transferable property in an ECP Report. This ECP Report is based on readily available information. Pursuant to the Department of Defense's policy, set forth in the Base Redevelopment and Realignment Manual (DoD 4165.66-M, March 1, 2006) Section C8.3 (BRRM), the primary purposes of the ECP Report include the following:

- Provide the Army with information it may use to make disposal decisions.
- Provide the public with information relative to the environmental condition of the property.
- Assist in community planning for the reuse of BRAC property.
- Assist Federal agencies during the property screening process.
- Provide information for prospective buyers.
- Assist prospective new owners in meeting the requirements under EPA's "All Appropriate Inquiry" regulations.
- Provide information about completed remedial and corrective actions at the property.
- Assist in determining appropriate responsibilities, asset valuation, and liabilities with other parties to a transaction.

The ECP Report contains the information required to comply with the provisions of 40 Code of Federal Regulations (CFR) Part 373, which require that a notice accompany contracts for the sale of, and deeds entered into, for the transfer of federal property on which any hazardous substance was stored, released or disposed of. The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Section 120(h) stipulates that a notice is required if certain quantities of designated hazardous substances have been stored on the property for one year or more – specifically, quantities exceeding 1,000 kilograms or the reportable quantity, whichever is greater, of the substances specified in 40 CFR 302.4 or one kilogram of acutely hazardous waste as defined in 40 CFR 261.30. A notice is also required if hazardous substances have been disposed of or released on the property in an amount greater than or equal to the reportable quantity. Army Regulation (AR) 200-1 requires that the ECP Report address asbestos, lead-based paint, radon and other substances potentially hazardous to human health.

This ECP Report used the American Society for Testing and materials (ASTM) Designation D 6008-96 (2005), *Standard Practice for Conducting Environmental Baseline Surveys*, the BRRM, CERCLA § 120, and Army Regulation 200-1.

1.2 Scope of Services

This ECP report covers the 2.01-acre USAR Center located at 1469 Old Berwick Road, Bloomsburg, Pennsylvania. The Property is bounded by Old Berwick Road to the south, and residential development to the west and north. An American Legion is also located to the west of the northern portion of the Property. A vacant grassed lot is located along the eastern boundary. All site maps, figures and aerial photographs referenced herein are provided in Appendix A, while Appendix B contains the photographs taken during the August 9, 2006 site reconnaissance. Appendix C contains the Property chain of title information, and lease or permit agreements if applicable. Relevant historical environmental documents and reports are provided in Appendix D, while Appendix E contains the Environmental Data Resources, Inc. (EDR) radius search reports commissioned for this effort.

This ECP report classifies the property into one of seven DoD Environmental ECP categories as defined by the Deputy Under Secretary of Defense Memorandum, *Clarification of "Uncontaminated" Environmental Condition of Property at Base Realignment and Closure (BRAC) Installations*, dated October 21, 1996. The property classification categories are as follows:

- ECP Area Type 1 – An area or parcel of real property where no release or disposal of hazardous substances or petroleum products or their derivatives has occurred (including no migration of these substances from adjacent properties).
- ECP Area Type 2 – An area or parcel of real property where only the release or disposal of petroleum products or their derivatives has occurred.
- ECP Area Type 3 – An area or parcel of real property where release, disposal, or migration, or some combination thereof, of hazardous substances has occurred, but at concentrations that do not require a removal or remedial action.

- ECP Area Type 4— An area or parcel of real property where release, disposal, or migration, or some combination thereof, of hazardous substances has occurred and all remedial actions necessary to protect human health and the environment have been taken.
- ECP Area Type 5— An area or parcel of real property where release, disposal, or migration, or some combination thereof, of hazardous substances has occurred and removal or remedial actions, or both, are underway, but all required actions have not yet been taken.
- ECP Area Type 6— An area or parcel of real property where release, disposal, or migration, or some combination thereof, of hazardous substances has occurred, but required response actions have not yet been initiated.
- ECP Area Type 7— An area or parcel of real property that is unevaluated or requires additional evaluation.

2 Site Location and Physical Description

2.1 Site Location

The Bloomsburg USAR Center is located in Columbia County, on the east side of the city of Bloomsburg, Pennsylvania, at 1469 Old Berwick Road. Figure 1 in Appendix A shows the site location. The 2.01-acre parcel is situated along Old Berwick Road, a two-lane city road, and residential development is located to the west and north. An American Legion is also located to the west of the northern portion of the Property. A vacant grassed lot is located along the eastern boundary.

2.2 Asset Information

Facility Name and Address:	Bloomsburg U.S. Army Reserve Center 1469 Old Berwick Road Bloomsburg, Pennsylvania
Property Owner:	United States Government
Date of Ownership:	November 30, 1965
Current Occupant:	542 nd Quartermaster Company
Zoning:	Residential-Suburban
County, State:	Columbia, Pennsylvania
USGS Quadrangle(s):	Bloomsburg, Pennsylvania
Section/Township/Range:	not applicable
Latitude/longitude:	41 0' 1.4"N; 76 25' 37.2"W

Legal Description:

According to the chain of title for the Property (Appendix C), the current property legal description is as follows:

Being that parcel or tract of land, known as Tract 100, containing 2 acres, more or less, situated and lying along Old U.S. Route No. 11 also known as Berwick Road in Scott Township, the City of Bloomsburg, Columbia County, State of Pennsylvania.

Assessor's Parcel No: 31 03B09200000

2.3 Physical Description

The Bloomsburg USAR Center is located on a 2.01-acre parcel on the eastern side of Bloomsburg, Pennsylvania. The Property is located on the United States Geological Survey (USGS) 7.5 minute Bloomsburg Quadrangle map, at an average elevation of 480 feet National Geodetic Vertical Datum (NGVD). The topography is generally flat, with a slight decrease in elevation to the south toward Old Berwick Road.

The USAR Center contains two permanent structures and two parking lots. Construction of both the 4,400 square-foot administration building and the 1,200 square-foot organizational maintenance shop (OMS) building were completed in 1956 and 1965, respectively (U.S. Army, 2001). Both structures are on concrete foundations, and consist of concrete block walls covered with a brick veneer. A military equipment parking (MEP) area and a privately owned vehicle (POV) parking area are also contained within the Property. Chain-link security fencing topped with barbed wire encloses the MEP area and OMS building. Figure 2, in Appendix A shows the site layout.

Approximately one-third of the Property is covered by impervious surface features such as asphalt parking areas, driveways, concrete walkways, and building footprints. The remaining land is grassed with deciduous trees located along portions of the northern and eastern boundaries.

The administration building is a rectangular-shaped single-level structure. The building's interior primarily consists of office space, classrooms, kitchen area, storage, and mechanical room.

One concrete pad is located on the north side of the administration building and was the former location of the portable cooking trailer (Photograph 6, Appendix B).

The multi-story OMS building provides unobstructed, open space to perform limited maintenance activities on military equipment. The building contains one service bay and is currently used for storage purposes. No vehicles were parked in the OMS building and no evidence of recent vehicle maintenance was observed. The former vehicle maintenance pit located in the vehicle bay portion of the OMS building was filled with concrete (Photograph 8, Appendix B). No floor drains were visible in the OMS building. Two steel 55-gallon open top drums labeled as containing antifreeze were observed on a pallet in the OMS building. According to site personnel, these two drums were temporarily being stored at the facility and were soon to be removed. No evidence of chemical-type odors or staining was observed in or around the drums.

At the time of the site reconnaissance, five Container Express (CONEX) type storage containers were observed in the MEP area. These storage containers generally contained electronic equipment, empty storage containers, tent equipment, sleeping mats, and empty pallets. No chemicals or chemical containers were observed in the storage containers.

Hazardous Material Storage Shed

One outdoor hazardous material storage shed was observed to the west of administration building (Photograph 2, Appendix B). This shed contained small quantities (5 gallons or

less) of latex and enamel paints, soap, starting fluid, gas cans, lube oils, and other lubricating sprays.

Vehicle Wash Area

A vehicle wash area consisting of a concrete pad is located west of the OMS building. According to site personnel, the vehicle wash area was rarely used. The vehicle wash area, constructed in 1965, contains one drain in the center of the concrete pad. The drain flows to a leach pit located north of the vehicle wash area (outside of the fenced OMS/MEP area). The vehicle wash area is not equipped with an oil/water separator (OWS) nor is it connected to the municipal sewer system (Photographs 3 and 4, Appendix B) (U.S. Army, 2001). At the time of the site reconnaissance, a large fork lift was parked on the vehicle wash area.

2.4 Site Hydrology and Geology

Bloomsburg USAR Center is located within the Eastern Appalachian Mountain section of the Ridge and Valley Physiographic Province. The area is characterized by long narrow ridges and broad to narrow valleys with some karstic terrain. Surface elevations in this province are variable and range from 300 feet mean sea level (msl) to 3,135 feet msl (KFS Historic Preservation Group, 1995).

The Bloomsburg USAR Center is found on the USGS 7.5 minute Bloomsburg quadrangle map. As shown on this map, ground surface elevations at the center average 480 feet above msl.

2.4.1 Surface Water Characteristics

Figure 3 in Appendix A provides a portion of the 1999 Bloomsburg, Pennsylvania USGS topographic map which includes the Property. As shown, the Property is situated at an elevation of approximately 480 feet above msl and is relatively flat. In the immediate vicinity of the Property, the land surface is situated on a plateau like plain that gently slopes towards the Susquehanna River located south of the Property.

In general, storm water from the southeastern two-thirds of the Property sheet flows across the Property to the south towards Old Berwick Road. Storm water runoff from the northwestern one-third of the Property sheet flows to the north. Runoff from this grassy northern portion of the Property would be minimal due to the limited impervious surfaces in this area.

The nearest storm drain is located along the north side of Old Berwick Road, within the grassy right-of-way, near the center of the Property. Water that enters this storm drain flows into the municipal storm water system.

No surface water features are located in the immediate vicinity of the Property. The nearest major surface water features are Kinney Run and the Susquehanna River, located approximately 600 feet north and south of the Property, respectively.

In a letter dated September 28, 1995, from EA Engineering, Science, and Technology, the Pennsylvania Department of Environmental Protection (PADEP) issued a Storm Water

Pollution Prevention Plan (SWPPP) exemption letter for the Bloomsburg USAR Center (EA, 1995a).

According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map, Community Panel 4211370005B, the Property is included in the 100-year floodplain elevation. The Property is located within Zone C, which is defined as an area that experiences minimal flooding (EDR 2006, Appendix E).

2.4.2 Hydrogeological Characteristics

According to information acquired from the Soil Conservation Service's State Soil Geographic Database (STATSGO) for Columbia County, specific types of soil at the Property are from the Pope Series. Surface soils of Pope Series (0 to 42 inches) are listed as a fine sandy loam with moderate infiltration rates. The subsurface soils (42 to 85 inches) are defined as a sandy loam. These soils do not meet the requirements for a hydric soil (EDR, 2006).

The Appalachian Mountain Section is underlain by a wide variety of sedimentary rocks including sandstone, siltstone, shale, conglomerate, limestone, dolomite and others ranging in age from Pennsylvania to Ordovician. The geologic structure consists of open and closed plunging folds having narrow hinges and planar limbs with thrust, reserved, and strike-slip faults. The drainage patterns in this section include trellis, angulate, and some karstic drainage patterns. This physiography originated from fluvial erosion, periglacial mass wasting, glacial erosion and deposition in the north and east, and solution of carbonate rocks (KFS Historic Preservation Group, 1995).

2.5 Site Utilities

Water Service—The City of Bloomsburg provides potable water service to the Property.

Sanitary Sewer System—The City of Bloomsburg provides sanitary sewer service to the Property. The primary source of wastewater that is directed to the city sewer system includes non-process wastewater (bathrooms, sinks, etc.).

Gas and Electric—Natural gas service is provided to the Property. Pennsylvania Power & Light (PP&L) provides electric service to the Property.

2.6 Water Supply Wells and Septic Systems

Based upon a review of available historical site and agency records and interviews with site personnel, a water supply well is presently not located at the Property. Potable water is presently supplied by the City of Bloomsburg. According to the 99th RRC USAR Environmental Protection Specialist for the Property, a water well was formerly present on the Property. The location, date, and method of abandonment are unknown.

A search of Federal and State water well databases did not identify any water supply sources within a 0.25-mile radius of the property. Thirty water supply sources were identified within a 0.25 to 1 mile radius of the Property with the nearest wells located

approximately 0.5-mile north/northwest of the Property. These wells are located topographically up-gradient.

According to site personnel, the facility presently is connected to the municipal sewer system. Before sanitary sewer lines were extended to this Property, the buildings were serviced with a septic tank system and leach field lines. According to the site utility site plans, dated June 1964 and March 1990, for the USAR Center, a septic field is located south of the administration building. The system was designed for a normal sewage load from the office and classroom restrooms. There is no evidence to suggest that this septic system was connected to the OMS building, which is supported by the presence of the leach pit in the OMS area (U.S. Army, 1964; Entech Engineering, 1990).

According to the 99th RRC USAR Environmental Protection Specialist for the Property, the septic tank was removed from the Property; however, the removal date is unknown.

No evidence of the presence of an active or previous septic system was visible during the August 2006 site reconnaissance.

3 Site History

3.1 History of Ownership

Land titles for the Property, which are included in the chain of title report in Appendix C, were available back to 1926. According to the chain of title provided by NETR-Real Estate Research & Information, the Property (Assessor's Parcel No: 31 03B09200000) was purchased by the United States of America on November 30, 1965 from the American Legion Home Association (identified in Appendix C). The report did not identify any environmental liens, institutional controls or engineering controls for the USAR Center Property. According to 99th Regional Readiness Command (RRC) personnel, the USAR Center Property was leased by the United States Government prior to purchase in 1965.

According to a City Directory summary provided by EDR and dated July 20, 2006, the address of the USAR Center was first listed in the research source (Polk's City Directory) in 1995. The listed 2000 and 2005 city directories also list the Bloomsburg USAR Center. The remaining listings for the surrounding properties along Old Berwick Road for the years 1980, 1985, 1990, 1995, 2000, to 2005 indicate the presence of residences. No commercial or industrial properties are listed for the surrounding properties. A copy of the City Directory summary is included in Appendix E.

3.2 Past Uses and Operations

The U.S. Government purchased the 2.01-acre USAR Center Property in 1965. Construction of the administration building and OMS building occurred in 1956 and 1965, respectively (U.S. Army, 2001). Prior to purchase in 1965, the Property was leased by the U.S. Government. Historical information sources suggest that the Property was undeveloped prior to the U.S. Government leasing the property in 1956. The Property has always served as a reserve training and mobilization center for the U.S. Army Reserve since the U.S. Government constructed the USAR Center in 1956.

The Property primarily functioned as an administrative, logistical, and educational facility, with limited maintenance of military vehicles occurring in the OMS building. The Property was historically used by reservists for drill activities on various weekends throughout the year. The 542nd Quartermaster Company (force provider) is the occupying unit at the USAR Center. The mission of this unit is to provide fuel and laundry supply in the Forward Theater of Operations. At the time of the site reconnaissance, the administration building contained various items, including desks, office furniture, folding tables, and stored equipment such as sleeping bags, clothes, boots, and shovels.

The OMS building was used to perform limited maintenance activities on military equipment. Activities inside the OMS building were limited to preventative maintenance checks, including checking vehicle fluids such as motor oil, water, and antifreeze, and light maintenance activities. Any equipment requiring heavier maintenance activities was sent to

an Area Maintenance Support Activity (AMSA) shop located at one of the other Reserve Centers in Pennsylvania.

The OMS building contains one service bay and is currently used for storage purposes. A vehicle was not parked in the OMS and no evidence of recent vehicle maintenance was observed. A former vehicle maintenance pit located in the vehicle bay portion of the OMS building was filled with concrete. No floor drains were visible in the OMS building. At the time of the site reconnaissance, two steel 55-gallon open top drums labeled as containing antifreeze were observed on a pallet in the OMS building. According to site personnel, these two drums were temporarily being stored at the facility and were soon to be removed. No evidence of chemical-type odors or staining was observed in or around the drums.

A petroleum, oil, lubricant (POL) storage room is located at the northwest corner of the OMS building. The storage room was observed to contain a 5-gallon gas can and miscellaneous light duty tools and equipment. No other chemicals were observed in the POL storage room.

A flammable storage cabinet was located outside in the MEP area. At the time of the site reconnaissance, the cabinet was empty.

Vehicle washing would have historically occurred on the vehicle wash area to the west of the OMS building. According to site personnel, the vehicle wash area was rarely used. The vehicle wash area, constructed in 1965, contains one drain in the center of the concrete pad. The drain flows to a leach pit located north of the vehicle wash area. The vehicle wash area is not equipped with an OWS nor is it connected to the municipal sewer system (U.S. Army, 2001).

Historical aerial photographs and topographic maps were the primary source of information on the past use and operations at the Property. Figures 3 - 11 in Appendix A provide USGS topographical maps and aerial views of the Property and surrounding areas in 1894, 1947, 1953, 1969, 1975, 1976, 1983, and 1999.

The 1894 USGS topographical map (Figure 4, Appendix A) depicts the Property and surrounding properties as undeveloped. Old Berwick Road is shown to the south.

Similar to the 1894 USGS topographical map, the 1947 USGS topographical map (Figure 5, Appendix A) shows the Property and surrounding properties to the north, west, and south as undeveloped. The single-family residence to the east of the Property is shown. Additional development is depicted further to the west and east of the Property.

The 1953 USGS topographical map (Figure 6, Appendix A) show the Property and surrounding properties relatively unchanged from the 1947 USGS topographical map. Further development is depicted further to the west and east of the Property.

The USAR Center with administration and OMS buildings are shown on 1969 aerial photograph (Figure 7, Appendix A). The MEP and POV parking areas are also visible on the Property. Military vehicles or CONEX structures are visible in and to the south of the MEP area. The American Legion Quonset hut and residential trailers are visible on the western adjacent property. A single-family residential development is visible to the north of the

Property. Residential trailers and a single-family residence are present to the south, across Old Berwick Road.

The 1975 USGS topographical map, 1976 aerial photograph, and 1983 USGS topographical map (Figures 8, 9, and 10, respectively, Appendix A) show the Property and surrounding properties relatively unchanged from the 1969 aerial photograph.

With the exception of the removal of the residential trailers on the property to the south across Old Berwick Road, the 1999 aerial photograph (Figure 11, Appendix A) also shows the Property and surrounding properties relatively unchanged from the 1976 aerial photograph. No building structures are depicted on the Property and surrounding properties on the 1999 USGS topographical map (Figure 3, Appendix A).

3.3 Past Use, Storage, Disposal, and Release of Hazardous Substances

3.3.1 Past Use and Storage of Hazardous Substances

Information related to the past use and storage of hazardous substances at the Property was compiled through review of available site records, search of Federal and State environmental databases, and interviews with Army Reserve personnel. Chemicals formerly used and stored at the Property were associated with vehicle and facility maintenance activities, and janitorial services. Janitorial chemicals and building maintenance-related products were stored in the designated storage area within the janitorial closet located in the administration building. Vehicle maintenance products and small amounts of POL products would have been stored within designated areas (POL Storage Room) within the OMS building.

According to the Hazardous Waste Management Plan, dated July 1995, for the Bloomsburg USAR Center, spent waste oil and spent antifreeze (estimated 25 gallons per year) were stored in drums staged to the west of the OMS building (EA, 1995b).

The outdoor hazardous material storage shed contained small quantities (5 gallons or less) of latex and enamel paints, soap, starting fluid, gas cans, lube oils, and other lubricating sprays.

There is no evidence that CERCLA hazardous substances were stored at the Property for one year or more in excess of corresponding reportable quantities.

3.3.2 Past Disposal and Release of Hazardous Substances

Information related to past disposal and potential release of hazardous substances at the Property was compiled through review of available site records, search of Federal and State environmental databases, and interviews with Army Reserve personnel.

Based on the review of an Installation Restoration Program/Installation Action Plan (IRP/IAP) prepared for the Bloomsburg USAR Center in 1995, two Restoration Management Information System (RMIS) sites were identified on the Property. The OMS vehicle service pit was identified as having interior building surfaces contaminated with

industrial liquid wastes (U.S. Army, 1995a). In addition, waste POL was used to control vegetation along fence lines and fence line areas not treated with waste POL were subsequently treated with herbicides. Further discussion of the two RMIS sites is included in Sections 3.5.4 and 6.3.

Available records or interviews did not indicate other practices of disposal and releases of hazardous substances; however, the historical use of vehicle wash area and leach pit may have had the potential to release hazardous substances to the Property. Further discussion of the leach pit is included in Section 6.4.

No stained soil or stressed vegetation was observed during the August 2006 site reconnaissance. Additionally, the MEP area and POV parking area did not show any signs of staining and no noxious or foul odors were noted during the site reconnaissance.

3.4 Past Presence of Bulk Petroleum Storage Tanks

Based upon a review of available site records, a search of Federal and State environmental databases, and interviews with Army Reserve personnel, two underground storage tanks (USTs) were previously located at this facility, but they were removed on October 29, 1996. The former 1,500-gallon and 550-gallon USTs were used to store fuel oil used to heat the administrative and OMS buildings, respectively. The former 1,500-gallon UST was located near the northwest corner of the administration building and the former 550-gallon UST was located near the northeast corner of the OMS building (see Photographs 4 and 5, Appendix B). Soil samples were collected from the excavation and the stockpiled soil, prior to backfill operations. All soil analytical results were below the regulatory remedial action levels. The tanks and associated piping were hauled off-site for recycling and the excavations were back filled with crushed stone and soil. A closure report was prepared for the site; however, because the tanks stored fuel oil for the purpose of space heating, the tanks were exempt from regulation and the closure report did not fulfill any regulatory requirement (Engineering Technologies Associates, 1996). The former USTs were not listed in the EDR database report provided in Appendix E.

The administration building is presently heated with a natural gas forced hot air with central air conditioning system. The OMS building is heated by one natural gas-fired unit heater and one natural gas infrared heater. No evidence for the current presence of USTs or aboveground storage tanks (ASTs) was observed on the Property during the August 9, 2006 site reconnaissance.

3.5 Review of Previous Environmental Reports

A review of site records produced several reports pertaining to the Property. The following subsections provide a brief summary of these reports. Copies of the reports, unless otherwise specified, are provided in Appendix D.

3.5.1 1994 Environmental Compliance Assessment Report

The 416th Engineer Command's Fort Indiantown Gap Facility Engineer Teams performed an Environmental Compliance Assessment Report on January 26, 1994 for the Bloomsburg

USAR Center. This involved an external environmental compliance assessment for the facility. Results of the assessment identified numerous findings; many of which included the proper documentation, training, and handling of hazardous substances. Other findings included the following: the USTs were not equipped with overfill protection and transformers were not tested for polychlorinated biphenyls (PCBs). None of the findings presented any significant environmental issues (U.S. Army, 1994a). The report available for review was an internal draft version marked confidential; therefore, the report has not been included in Appendix D and only the findings are summarized in this report.

3.5.2 1995 Cultural Resources Report

A Cultural Resources Management Plan was prepared for the 79th Army Reserve Command by the KFS Historic Preservation Group in 1995. The purpose of the survey was to identify and evaluate historic architectural resources and archeological site potential for all properties controlled or leased by the 79th Army Reserve Command in the State of Pennsylvania. No archaeological sites were identified in the vicinity of the Property (KFS Historic Preservation Group, 1995).

3.5.3 1995 Significant Biological Resources

A report entitled *An Inventory of Significant Biological Resources At U.S. Army Reserve Centers in Central and Eastern Pennsylvania* was prepared for the 99th RRC in 1995 in an effort to inventory and manage natural resources found at 99th RRC facilities in Pennsylvania. The report noted that this USAR Center did not contain any species of concern, natural communities or wetlands. There is no potential due to the absence of suitable habitats (PSOTNC, 1995).

3.5.4 1995 Installation Restoration Program/Installation Action Plan

In 1995, an IRP/IAP was prepared for the Bloomsburg USAR Center. The report identified two RMIS sites on the Property including: 1) building interior surfaces and (potentially) subsurface soils contaminated with industrial liquid wastes (OMS vehicle service pit), and 2) perimeter portions of the property affected by surficial hazardous waste disposal and/or herbicide application. The most widespread identified contaminant of concern at the USAR Center is the POL. At the time of the report, there had not been any Site Investigation (SI) activities to determine the nature of the contaminants. Media of concern were identified as the surficial and subsurface soil and building interior surfaces. The U.S. Army Environmental Center (USAEC) had been the lead IRP agency and USACE Baltimore District was the execution support agency for activities performed on the Property. The report indicates that a Preliminary Assessment (PA) for waste disposal along the facility fence line was completed in 1994. This PA suggested that a Focused Site Investigation (FSI) and possible remediation is required due to stressed vegetation and visible soil staining. Waste POL was used to control vegetation along fence lines as a security measure. Fence line areas not treated with waste POL were subsequently treated with herbicides. At the time of the report, there had been no assessment of liquid waste management practices in the OMS service pit area (U.S. Army, 1995a). The vehicle maintenance pit was subsequently filled with concrete (refer to Section 6.4).

3.5.5 1995 Hazardous Waste Management Plan

In 1995, EA Engineering, Science, and Technology prepared a Hazardous Waste Management Plan for the Bloomsburg USAR Center. The Hazardous Waste Management Plan provided the USAR Center with the guidance and tools for effective hazardous waste management. The plan lists the USAR Center as a Small Quantity Generator (SQG). The plan indicated spent waste oil and spent antifreeze (estimated 25 gallons per year) as the waste stream for the Property. These substances were stored in drums staged to the west of the OMS building. The plan indicated that the USAR Center does not have a designated hazardous waste storage area because it does not anticipate future hazardous waste streams (EA, 1995b).

3.5.6 1996 UST Closure Report

In 1996, Engineering Technologies Associates prepared a UST closure report documenting the October 29, 1996 removal of one 1,500-gallon and one 550-gallon UST from the Property. The former 1,500-gallon and 550-gallon USTs were used to store fuel oil used to heat the administrative and OMS buildings, respectively. The former 1,500-gallon UST was located near the northwest corner of the administration building and the former 550-gallon UST was located near the northeast corner of the OMS building. Soil samples were collected from the excavation and the stockpiled soil, prior to backfill operations. All soil analytical results were below the regulatory action levels. The tanks and associated piping were hauled off-site for recycling and the excavations were back filled with crushed stone and soil. A closure report indicating no further action was required was prepared for the site; however, because the tanks stored fuel oil for purpose of space heating, the tanks were exempt from regulation (Engineering Technologies Associates, 1996).

3.5.7 2001 OWS Survey Report

Horne Engineering Services prepared an OWS survey report for numerous USAR sites within the Commonwealth of Pennsylvania, including the Bloomsburg USAR Center. As part of the reporting process, Horne Engineering Services was responsible for documenting and locating each OWS located at USAR facilities throughout Pennsylvania. No OWS are present on the Property. A dry well separator (namely the leach pit) with an unknown discharge location was identified. It was recommended that the leach pit and vehicle wash area be closed (Horne Engineering Services, 2001).

3.5.8 2001 Engineering and Environmental Facility Assessment Report

The 416th Engineer Command's Fort Indiantown Gap Facility Engineer Teams performed a facility assessment from May 31, 2001 to June 1, 2001 for the Bloomsburg USAR Center. This involved an external environmental compliance assessment for the facility. The assessment identified a total of nine findings (one Class I, four Class III, and four Regulatory Health/Safety findings). The Class I finding was related to the vehicle wash area, which is not equipped with an OWS and flows to a leach pit. The inspection team recommended that the vehicle wash area be either permanently closed or reconstructed to include an OWS. Additionally, it was recommended that the facility manager ensure that the existing wash area be taken out of service (U.S. Army, 2001).

3.5.9 2004 Engineering and Environmental Facility Assessment Report

The 416th Engineer Command's Fort Indiantown Gap Facility Engineer Teams performed a facility assessment on December 2, 2004 for the Bloomsburg USAR Center. This involved an external environmental compliance assessment for the facility. The assessment identified a total of nine findings (four Class II, three Regulatory Health/Safety, and two Class II Management findings). The vehicle wash area was identified as containing a drain that flows to a leach pit that is not equipped with an OWS nor is it connected to the municipal sewer system. The inspection team recommended that the vehicle wash area be either permanently closed or reconstructed to include an OWS. Suspect asbestos-containing material (ACM) was identified in the administration building; however, an asbestos management plan was not available. An asbestos survey was recommended to determine the presence of asbestos for the facility. The remaining findings were related to the proper documentation and training for hazardous substances (U.S. Army, 2004).

4 Adjacent Properties

Adjacent property land uses are significant to the ECP process, as these current or past uses may have an environmental impact on the USAR Center. Adjacent properties were included in the EDR report review for this reason. Typically adjacent properties within 0.25-mile of the USAR Center property boundaries are reviewed and visually surveyed. For the purposes of this ECP, the adjacent property reconnaissance was performed from the USAR Center property boundaries and from public access points. Historical aerial photographs and topographic maps are also reviewed for conditions or activities that may have had an environmental impact on the Property.

4.1 Land Uses

Main land use within an approximately 0.25-mile radius of the USAR Center is residential. The commercial district along Old Berwick Road is located approximately 0.25-mile west of the Property. The nearest commercial business, located at 1311 Old Berwick Road, is owned by Boyer Oil Service, Incorporated. Immediately south of the Property is the right-of-way for Old Berwick Road. The road is a two-lane paved street. Two single-family residences are directly south of the USAR Center on the south side of the road.

A single-family residence (separated by a grassy lot) is located to the east of the Property.

A small group of trailers is located adjacent to the west of the USAR Center along Old Berwick Road. An American Legion is located adjacent to the west of the northern portion of the Property.

Two single-family residences are located adjacent to the north of the Property.

Table 1 summarizes the current adjacent properties, their type, and zoning.

TABLE 1
 List of Properties Adjacent to Bloomsburg USAR Center, Bloomsburg, Pennsylvania

Name/Type of Property	Address	Distance and Direction from Property	Zoning	Remarks
American Legion	110 Juniper St Bloomsburg, PA 17815	Adjacent to west	Residential-Urban	
Single Family Residences (Trailers)	1419 & 1429 Old Berwick Rd Bloomsburg, PA 17815	Adjacent to west	Residential-Urban	One small fuel oil AST noted next to trailer
Residences	175 & 185 Nottingham Rd Bloomsburg, PA 17815	Adjacent to north	Residential-Suburban	
Vacant Lot Residence	Old Berwick Road Bloomsburg, PA 17815 1529 Old Berwick Road Bloomsburg, PA 17815	Adjacent to east	Residential-Suburban	
Residences	1434 & 1440 Old Berwick Rd. Bloomsburg, PA 17815	Adjacent to east	Residential-Suburban	

Source: Scott Township Zoning Department

4.2 Findings

The EDR database search results were reviewed for any evidence that adjacent properties may have past or present environmental issues that would impact the USAR Center. None of the adjacent properties were listed in the results.

A search of Federal and State water well databases did not identify any water supply sources within a 0.25-mile radius of the property. Thirty water supply sources were identified within a 0.25 to 1 mile radius of the Property with the nearest wells located approximately 0.5-mile north/northwest of the Property. These wells are located topographically up-gradient.

Land use at adjacent properties does not appear to have changed significantly over the years, based on a review of available aerial photographs and topographic maps. With the exception of the residence to the east of the Property (depicted on the 1947 topographic map), the historical topographic maps do not depict any development on the adjacent properties until the 1975 version. The 1969 aerial photograph already shows the adjacent properties as developed with their present day structures. Previous land use prior to development on the adjacent properties is unknown.

5 Review of Regulatory Information

An essential component of an ECP is the review of records and databases containing information on the Property and adjacent properties. The review includes reasonably obtainable federal, state, and local government records, and is intended to identify a release or likely release of any hazardous substance or any petroleum product, which is likely to cause or contribute to a release or threatened release of any hazardous substance or any petroleum product to the Property.

The majority of the regulatory information for this ECP was obtained from EDR on July 19, 2006. EDR provides a regulatory database summary that consolidates standard federal, state, local, and tribal environmental record sources based on ASTM recommended minimum search distances from the Property.

All findings reported in Sections 5.1, 5.2, and 5.3 below are from the EDR report unless otherwise noted. A copy of the complete EDR report is included in Appendix E.

5.1 Federal Environmental Records

5.1.1 Federal National Priorities List (NPL) Sites within 1 Mile

U.S. Environmental Protection Agency (USEPA) maintains a record of the nations' worst uncontrolled or abandoned hazardous waste sites, known as the NPL. Sites on the NPL undergo long-term remedial action under CERCLA. The Bloomsburg USAR Center is not an NPL site, nor were any such sites located within 1 mile of the Property.

5.1.2 Federal Comprehensive Environmental Response, Compensation and Liability Act Information Systems (CERCLIS) Sites within 0.5 Mile

The CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by state, municipalities, private companies and private persons, pursuant to Section 103 of the Act. CERCLIS contains sites that are either proposed to be or are on the NPL and sites that are in the screening and assessment phase for possible inclusion on the NPL.

The Bloomsburg USAR Center is not a CERCLIS site and there are no CERCLIS sites located within 0.5 mile of the center.

5.1.3 Resource Conservation and Recovery Act (RCRA) Corrective Action (CORRACTS) Sites within 1 Mile

RCRA CORRACTS sites represent facilities that have generated or managed hazardous wastes and require corrective action. The Bloomsburg USAR Center is not a CORRACTS site, nor are there any such sites identified within one mile of the USAR Center.

5.1.4 RCRA Treatment, Storage, and/or Disposal Sites within 0.5 Mile

RCRA defines and regulates sites that generate, treat, store, and/or dispose (TSD) of hazardous wastes. The RCRA Information System (RCRIS) includes selective information on these sites.

The Bloomsburg USAR Center is not a RCRIS-TSD site and there are no such sites located within 0.5-mile of the Property.

5.1.5 Federal RCRA Small and Large Quantity Generators List within 0.25 Mile

Conditionally exempt small quantity generators are defined as facilities generating less than 100 kg of hazardous waste and less than 1 kg of acutely hazardous waste per month. RCRA small quantity generators are defined as facilities generating between 100 kg and 1,000 kg of hazardous waste and less than 1 kg of acute hazardous waste per month. A facility generating more than 1,000 kg of hazardous waste or over 1 kg of acutely hazardous waste per month is defined as a large quantity generator.

The Bloomsburg USAR Center is listed as an RCRA-registered conditionally exempt small quantity generator. No RCRA violations are associated with the USAR Center.

No other large or small quantity generators are located within 0.25-mile of the Center.

5.1.6 Federal Emergency Response Notification System (ERNS) List

The ERNS List maintains information on reported releases of oil and hazardous substances. The Bloomsburg USAR Center is not on this notification list.

5.2 State and Local Environmental Records

Most of the information presented in this subsection was obtained from the EDR report. Additional information was also obtained from online database searches of PADEP's website. Occasionally state and local agency personnel were interviewed via telephone to answer questions about any database issues.

5.2.1 State Lists of Hazardous Waste Sites within 1 Mile

The USAR Center is not on the state list of hazardous waste sites.

No properties within 1 mile of the Center were listed as having a hazardous waste site.

5.2.2 State-Registered Landfills or Solid Waste Disposal Sites within 0.5 Mile

The USAR Center does not have a solid waste landfill, incinerator, or transfer station within the Property boundaries.

No properties within 0.5-mile of the Center have a solid waste landfill, incinerator, or transfer station.

5.2.3 State-Registered Leaking UST (LUST) Sites within 0.5 Mile

The Bloomsburg USAR Center is not listed in the State Leaking Underground Storage Tank (LUST) database and no sites were listed within 0.5-mile of the Property.

One site identified on Pennsylvania's leaking storage tank cases from unregulated storage tanks (UNREG LTANK) was identified within a 0.5-mile of the Property. This site, identified as Santo Lanzafame, located at 1743 Old Berwick Road, is approximately 500 feet east of the Property. The database indicates that cleanup of the tanks is using authorities other than Act 32. The listed contaminant is benzene, toluene, ethylbenzene, and total xylenes (BTEX). According to the EDR report, this site is located topographically downgradient of the Property. Based on the distance of this site from the Property, the potential that this site will affect the environmental condition of the Property is low.

5.2.4 State-Registered UST Sites within 0.5 Mile

The USAR Center is not listed in the State UST database and no sites were listed within 0.25-mile of the Center.

5.2.5 State Spills Incidents

The USAR Center is not listed on the Pennsylvania petroleum spill list.

5.2.6 Records of Contaminated Public Wells within 1 Mile

The City of Bloomsburg Water and Sewer Board does not own or operate any municipal water supply wells within 0.5-mile of the USAR Center.

A search of Federal and State water well databases did not identify any water supply sources within a 0.25- mile radius of the property. Thirty water supply sources were identified within a 0.25 to 1 mile radius of the Property with the nearest wells located approximately 0.5-mile north/northwest of the Property. These wells are located topographically up-gradient.

5.2.7 Voluntary Remediation Program Sites within 0.5 Mile

The USAR Center is not listed in Pennsylvania's Brownfield's Program (the successor to the Voluntary Cleanup Program). No sites located within 0.5-mile of the Center are listed as being in the Brownfield's Program either.

5.2.8 State Registered Bulk Fertilizer and Pesticide Storage Facilities within 0.25 Mile

According to the EDR database and a search of the PADEP's website, Pennsylvania does not maintain a state database with registered bulk fertilizer and pesticide storage facilities.

5.3 Unmapped Sites

Some sites within the databases EDR searches have the same zip code as the USAR Center, but no street address. These sites, known as unmapped or orphan sites, can not be mapped

from the EDR results alone. Additional efforts described herein were made to locate these sites and assess their environmental importance to the USAR Center.

Using the mapping utility provided at maps.google.com, the locations of the orphan sites were identified and mapped. However, none of the sites were located within corresponding ASTM search radius distance.

5.4 Summary of Properties Evaluated to Determine Risk to the Property

To summarize Subsections 5.1 through 5.3, no properties near or adjacent to the USAR Center were evaluated as potential risk properties to the Property since no adjacent properties were identified that could have potential impact as a result of information obtained during area reconnaissance, interviews, and regulatory database searches.

6 Site Investigation and Review of Hazards

Findings documented in the following subsections are based on the August 9, 2006 site reconnaissance, a review of available site records, and information obtained from U.S. Army Reserve personnel.

6.1 USTs/ASTs

Two fuel oil USTs associated with this facility were removed from the Property on October 29, 1996 (see Photographs 4 and 5, Appendix B). The former 1,500-gallon and 550-gallon fuel oil USTs were used to heat the administrative and OMS buildings, respectively. Soil samples were collected from the excavations and the stockpiled soil, prior to backfill operations. All soil analytical results were below the regulatory remedial action levels. Because the tanks stored fuel oil for the purpose of space heating, the tanks were exempt from regulatory requirements (Engineering Technologies Associates, 1996). The former USTs were not listed in the EDR database report (EDR, 2006). The 1,500-gallon UST passed tightness testing on August 17, 1993 (U.S. Army, 1994a).

No evidence of the current presence of USTs or ASTs was observed on the Property during the August 9, 2006 site reconnaissance.

6.2 Inventory of Chemicals/Hazardous Substances

Records pertaining to chemicals including hazardous materials, chemical bulk storage, petroleum products, hazardous waste, and petroleum waste were reviewed in addition to interviews and the site reconnaissance to develop the inventory for this Property. Available records indicate that hazardous materials and/or POLs have been stored at this facility. Vehicle maintenance products and quantities up to 5-gallons of POL products were stored within designated areas within the OMS shop building in support of limited maintenance activities on military equipment. In addition, two steel 55-gallon open top drums labeled as containing antifreeze were observed on a pallet in the OMS building. According to site personnel, these two drums were temporarily being stored at the facility and were soon to be removed.

At the time of the site reconnaissance, an outdoor hazardous material storage shed contained small quantities (5 gallons or less) of latex and enamel paints, soap, starting fluid, gas cans, lube oils, and other lubricating sprays. No chemicals/hazardous substances were observed in the POL storage room in the OMS building.

Current tenants use a licensed commercial company for application of lawn herbicides on the Property. In addition, other than the assumed routine household use of pesticides and herbicides, no evidence of pesticide/herbicide use (empty containers, dead or stressed vegetation) was observed during the site reconnaissance.

6.3 Waste Disposal Sites

An IRP/IAP was prepared for the Bloomsburg USAR Center in 1995. The report identified two RMIS sites on the Property including: 1) the OMS vehicle service pit was identified as having interior building surfaces contaminated with industrial liquid wastes, as well as potentially contaminated subsurface soils, and 2) perimeter portions of the property affected by surficial hazardous waste disposal and/or herbicide application.

The vehicle maintenance pit was subsequently filled with concrete (Photograph 8, Appendix B). Based on the remedial design drawings for the closure of the maintenance pits, the pit contained a sump and drain (CH2M Hill, 1995). The discharge point of the sump and drain was not known. At the time of this report, no additional information was available regarding the closure of the maintenance pit.

The 1995 IRP/IAP report indicated that a PA for waste disposal along the facility fence line was completed in 1994. Waste POL was used to control vegetation along fence lines as a security measure. Fence line areas not treated with waste POL were subsequently treated with herbicides. This PA suggested that a FSI and possible remediation is required due to stressed vegetation and visible soil staining (U.S. Army, 1995a). As shown in the 1995 IRP/IAP in Appendix D, the previously observed area of staining is not delineated on the drawings but just identified along the northern MEP fence line. At the time of this report, no records were available that would indicate if the FSI was performed. No evidence of soil staining along the fence line was observed during the August 9, 2006 site reconnaissance.

Available records or interviews did not indicate other practices of onsite waste disposal other than through managed storage and offsite disposal, or through the sewer or septic systems (refer to Section 2.4), or leach pit (refer to Section 6.4). One steel garbage can containing ash and partially burned debris was observed next to the dumpsters on the Property (Photograph 10, Appendix B). The origin of the materials was unknown. No staining or chemical-like odors were observed on the surrounding asphalt paved area. No other waste disposal sites were observed during the site reconnaissance, nor were any signs of past onsite waste disposal (such as stressed vegetation or suspicious depressions in the landscape) observed.

6.4 Pits, Sumps, Drywells, and Catch Basins

The drain of the vehicle wash area, located west of the OMS building, flows to a leach pit located north of the vehicle wash area (outside of the fenced OMS/MEP area) (Figure 2 in Appendix A) (Photographs 3 and 4, Appendix B). The vehicle wash area is not equipped with an OWS nor is it connected to the municipal sewer system. During a 2001 facility assessment, the inspection team recommended that the vehicle wash area be either permanently closed or reconstructed to include an OWS. Additionally, it was recommended that the facility manager ensure that the existing wash area be taken out of service (U.S. Army, 2001). According to site personnel, the vehicle wash area was rarely used. At the time of the site reconnaissance, a large fork lift was parked on the vehicle wash area and evidence of recent use of the wash area was not present. No evidence of permanent closure of the vehicle wash area was observed.

As previously noted, one vehicle maintenance pit was formerly located in the vehicle bay portion of the OMS building (CH2M Hill, 1995). Additional information concerning the vehicle maintenance pit is included in Section 6.3.

6.5 Asbestos-containing Material

The 2004 facility assessment performed by the 416th Engineer Command's Fort Indiantown Gap Facility Engineer Teams indicated that suspect ACM was identified in the administration building; however, an asbestos management plan or asbestos survey was not available for review. Abatement of asbestos insulation to facilitate the installation of natural gas service was completed between November 1994 and January 1995 (U.S. Army, 2004). The area where asbestos abatement was performed was not specified in the report. During the August 2006 site reconnaissance, insulation observed in the mechanical room appeared to be fiberglass and in good condition.

Prior to the early 1980s, asbestos commonly was used as an insulating material for buildings and piping and as filler for vinyl floor tile. Because of this practice, asbestos is likely to remain in the USAR buildings, although no sampling was performed as part of the site reconnaissance and no asbestos survey reports were identified.

6.6 PCB-containing Equipment

Three pole-mounted transformers located on a single pole are located in the western portion of the Property. These units are owned by PP&L. No labels indicating the presence or absence of PCBs were present on the transformers. During the August 2006 site reconnaissance, the units appeared to be in good condition and no evidence of leakage was observed.

Based on review of a Hazardous Waste Management Consultation provided by the 79th Army Reserve Command dated April 2-5, 1995, the pole-mounted transformers located on the site are noted as being utility owned (U.S. Army, 1995b). Based on a January 27, 1994 letter from PP&L, the three transformers have an in-service date of June 1965. The PCB content of these transformers was unknown (PP&L, 1994). No additional information concerning the PCB content of the transformers was available at the time of this report.

6.7 Lead-based Paint (LBP)

A LBP survey was not available for the USAR Center. All buildings on the Property were constructed before 1978 and are presumed to contain lead based paint. At the time of the site reconnaissance, the painted surfaces at this facility were in good condition.

6.8 Radon

Based on site-specific radon sampling results performed in 1994, the administration building contained radon levels above 4 picoCuries per liter (pCi/L) of air. Radon sampling results in the OMS building were 0.9 pCi/L and 1.4 pCi/L. Radon sampling results in the

administration building ranged from 2.2 pCi/L to 4.2 pCi/L (U.S. Army, 1994). A soil depressurization radon reduction mitigation system was installed in the administrative building by Ecosphere Corporation in August 1995 (Photograph 7, Appendix B). Post-mitigation testing performed in December 1995 indicated that the radon levels were below 4 pCi/L (U.S. Army, 1996). During an external environmental compliance assessment performed in 2001 for the facility, it was noted that the radon mitigation system appeared to be functioning properly; however, there does not appear to be any follow-up radon testing to evaluate the ongoing effectiveness of this system (U.S. Army, 2001).

In addition, the USEPA Map of Radon Zones for Columbia County, Pennsylvania confirms that the county lies within the high priority zone, Zone 1, which has a predicted average indoor screening level greater than 4 pCi/L, USEPA's residential action level.

The EDR report provides radon test results for the 17815 zip code area. The results concluded that 46.61 percent of 826 sites tested had a radon activity level of less than 4 pCi/L, with a maximum result of 362.5 pCi/L.

6.9 Munitions and Explosives of Concern (MEC)

Based on a review of available records, the site reconnaissance, and interviews with USAR Center personnel, there are no indications that MEC is or was present at the Property. There are no firing ranges on the Property, and there is no evidence that a firing range occurred on the Property historically.

6.10 Radioactive Materials

Based on a review of available records, the site reconnaissance, and interviews with USAR Center personnel, there is no indication that radioactive materials were stored, used or released at the USAR Center.

7 Review of Special Resources

7.1 Land Use

The City of Bloomsburg's Planning and Zoning Department has designated this Property and surrounding properties as residential-suburban and residential urban.

7.2 Coastal Zone Management

The Pennsylvania Department of Environmental Conservation, Division of Water is the lead agency for the Pennsylvania Coastal Management Program. This Property is not included in the coastal zone management plan, nor is it in a coastal zone.

7.3 Wetlands

A report entitled *An Inventory of Significant Biological Resources at U.S. Army Reserve Centers in Central and Eastern Pennsylvania* was prepared for the 99th RRC (PSOTNC, 1995) in an effort to inventory and manage natural resources found at 99th RRC facilities in Pennsylvania. The report noted that this USAR Center did not contain any wetlands.

According to the 1988 U.S. Fish and Wildlife Service (USFWS) National Wetlands maps, the Pennsylvania State Wetlands, and visual observations, no wetlands were observed on the Property, or on adjacent properties. The nearest wetland is located approximately 1,000 feet north of the Property and associated with Kinney Run (EDR 2006, Appendix E).

According to information acquired from the STATSGO for Columbia County, specific types of soil at the Property are from the Pope complex. The Pope soils are well drained and do not meet the requirements of a hydric soil (i.e., wetland indicator soils) (EDR, 2006).

7.4 100-year Flood Plain

According to the FEMA Flood Insurance Rate Map, Community Panel 4211370005B, the Property is included in the 100-year floodplain elevation. The Property is located within Zone C, which is defined as an area that experiences minimal flooding (EDR 2006, Appendix E).

7.5 Natural Resources

A report entitled *An Inventory of Significant Biological Resources at U.S. Army Reserve Centers in Central and Eastern Pennsylvania* was prepared for the 99th RRC (PSOTNC, 1995) in an effort to inventory and manage natural resources found at 99th RRC facilities in Pennsylvania. The report noted that this USAR Center did not contain any species of concern due to the absence of suitable habitats.

7.6 Cultural Resources

A Cultural Resources Management Plan was prepared for the 79th Army Reserve Command by the KFS Historic Preservation Group in 1995. The purpose of the survey was to identify and evaluate historic architectural resources and archeological site potential for all properties controlled or leased by the 79th Army Reserve Command in the Commonwealth of Pennsylvania. No archaeological sites have been identified in the vicinity of the Property (KFS Historic Preservation Group, 1995).

7.7 Other Special Resources

Two designated wild and scenic rivers (WSRs), Allegheny River and Clarion River, occur within the western part of Pennsylvania. These rivers are located greater than 100 miles west of the Bloomsburg area. Based on the location of the WSRs and historical activities conducted at the USAR Center, no activities conducted at the site would adversely impact any of the designated WSRs.

8 Conclusions

The following information was obtained after conducting an environmental record search including records for adjacent properties, reviewing available historical information, conducting interviews with knowledgeable parties connected with the Property or with state and local agencies, and conducting a reconnaissance of the Property and adjacent properties.

8.1 Review of Findings

Hazardous Substances. Hazardous substances pursuant to CERCLA 101(14) (42 USC 9601 (14)) were used and stored at the Property in amounts necessary to support unit-level vehicle and building maintenance activities.

A 1995 IRP/IAP (U.S. Army, 1995a) identified two RMIS sites on the Property: 1) OMS vehicle service pit containing interior surfaces and (potentially) subsurface soils contaminated with industrial liquid wastes (OMS vehicle service pit), and 2) Waste POL and herbicides were used to control vegetation along OMS/MEP fence line.

As observed during the August 2006 site reconnaissance, the vehicle maintenance pit, which contained a sump and drain, was later closed and filled with concrete (CH2M Hill, 1995). The discharge point of the sump and drain was not known at the time of this report and no additional information (i.e. sample data) was available regarding the closure of the maintenance pit.

The 1995 IRP/IAP indicated that a PA was prepared in 1994 for the waste disposal along the OMS/MEP fence line. Fence line areas that were not treated with waste POL were subsequently treated with herbicides. The PA suggested that a FSI and possible remediation is required due to stressed vegetation and visible soil staining. No evidence of soil staining along the fence line was observed during the August 9, 2006 site reconnaissance.

Available records or interviews did not indicate other practices of storage for one year or more, disposal and releases of hazardous substances above reportable quantities.

USTs/ASTs. Two fuel oil USTs used to heat the administrative and OMS buildings were removed from the Property on October 29, 1996. Laboratory analysis of soil samples collected from the excavations and the stockpiled soil indicated that all results were below the regulatory action levels. Because the tanks stored fuel oil for purpose of space heating, the tanks were exempt from registration with PADEP (Engineering Technologies Associates, 1996).

Non-UST/AST Petroleum Storage. Petroleum storage in excess of 55 gallons, other than in USTs, was not observed on the Property. See previous discussion on the use of used POL products along the fence lines.

PCBs. Three pole-mounted transformer located on a single pole are located in the western portion of the Property. These units are owned by PP&L. No labels indicating the presence or absence of PCBs were present on the transformer. During the August 2006 site reconnaissance, the units appeared to be in good condition and no evidence of leakage was observed.

ACM. The 2004 facility assessment indicated that suspect ACM was identified in the administration building; however, an asbestos management plan or asbestos survey was not available for review. Abatement of asbestos insulation to facilitate the installation of natural gas service was completed between November 1994 and January 1995 (U.S. Army, 2004). The area where asbestos abatement was performed was not specified in the report. During the August 2006 site reconnaissance, insulation observed in the mechanical room appeared to be fiberglass and in good condition. Based on the construction date of the USAR buildings, ACM is still likely to remain in the USAR buildings.

LBP. No LBP surveys have been conducted at the Property. Facilities constructed before 1978 are presumed to contain LBP. All buildings on the property were constructed before 1978 and, therefore, are presumed to contain LBP. At the time of the site survey, painted surfaces were in good condition with no chipped or peeling paint.

Radiological Materials. Based on available records review, interviews and a site reconnaissance, there is no evidence of any radiological materials storage or releases at the Property.

Radon. Based on site-specific radon sampling results collected in 1994, a soil depressurization radon reduction mitigation system was installed in the administrative building by Ecosphere Corporation in August 1995 (U.S. Army, 2001). Post-mitigation testing performed at Bloomsburg USAR Center in December 1995 indicated that the radon levels were below 4 pCi/L (U.S. Army, 1996).

Munitions and Explosives of Concern. Available records do not indicate any MEC are currently or were formerly located at this Property.

Surrounding Properties. Potential environmental sites of concern, located within the ASTM D6008 recommended minimum search distances (included in Section 5) from the Property, were evaluated through database review and site reconnaissance. None of the adjacent properties evaluated exhibited environmental conditions that had or have the potential to adversely affect environmental conditions at the Property.

Wetlands and Flood Plain. A report entitled *An Inventory of Significant Biological Resources at U.S. Army Reserve Centers in Central and Eastern Pennsylvania* was prepared for the 99th RRC indicated that the Bloomsburg USAR Center does not contain any wetlands. Additionally, based on the 1988 USFWS National Wetlands maps, the Pennsylvania State Wetlands, and visual observations, no wetlands were observed on the Property, or on adjacent properties.

The Property is included in the 100-year floodplain elevation. The Property is located within Zone C, which is defined as an area that experiences minimal flooding.

The Property is not located within a coastal zone.

Threatened and Endangered Species. A report entitled *An Inventory of Significant Biological Resources at U.S. Army Reserve Centers in Central and Eastern Pennsylvania* was prepared for the 99th RRC (PSOTNC, 1995) in an effort to inventory and manage natural resources found at 99th RRC facilities in Pennsylvania. The report noted that this USAR Center did not contain any species of concern due to the absence of suitable habitats.

Archaeological and Historical Resources. A Cultural Resources Management Plan was prepared for the 79th Army Reserve Command in 1995. No archaeological sites have been identified in the vicinity of the Property (KFS Historic Preservation Group, 1995).

8.2 Environmental Condition of Property

Findings of this ECP report were based on readily available environmental information, interviews with site and state and local personnel, review of previous environmental studies and federal and state database and file information related to the storage, release, treatment or disposal of hazardous substances or petroleum products. Results were also based on visual observations of the Property and adjacent properties.

In accordance with the Deputy Under Secretary of Defense Memorandum, *Clarification of "Uncontaminated" Environmental Condition of Property at Base Realignment and Closure (BRAC) Installations*, dated October 21, 1996, the Property has been classified into one of seven property types. Based on the results of this ECP study, the property has been assigned an overall DoD Environmental Condition Type 7.

The property type is based on the following major findings:

- Historical information indicates that waste POL was used to control vegetation along the OMS/MEP fence lines. Fence line areas that were not treated with waste POL were subsequently treated with herbicides. The PA suggested that a FSI and possible remediation is required due to stressed vegetation and visible soil staining. No additional information was available concerning the performance of additional investigations and/or remediation in this area.
- A leach pit, located northwest of the OMS building, received rinse water from the vehicle wash area. The vehicle wash area is not equipped with an OWS nor is it connected to the municipal sewer system. No information on sampling of the soil in the area or the waste streams to the pit was available.
- Location of a former 1,500-gallon UST adjacent to the Administration Building removed in 1996 and the location of a 550-gallon UST adjacent to the OMS Building removed in 1996. Both tanks were removed and soil sample results collected during closure were below PADEP standards. A closure report was submitted to PADEP.
- Historical information indicates that the OMS vehicle service pit contained interior surfaces and (potentially) subsurface soils contaminated with industrial liquid wastes. The vehicle maintenance pit was later closed under the IRP program and filled with concrete. The discharge point of the sump and drain was not known at the time of this report and no additional information (i.e. sample data) was available regarding the closure of the maintenance pit.

9 References

Persons Contacted

- Mr. Jason Clutter, U.S. Army Reserve, GS Environmental Protection Specialist, (570) 417-9556, August 9, 2006.
- Mr. Ray Spriggs, U.S. Army Reserve, GS Environmental Protection Specialist, (570) 417-7815, August 9, 2006.
- Mr. Eric Staley, Scott Township Zoning Department, Administrator, (570) 784-9114, September 6, 2006

Resources Consulted

- Aerial Photographs provided by Banks Information Solutions, Inc. dated 1969, 1976, and 1999.
- National Wild and Scenic Rivers, <http://www.nps.gov/rivers/wildriverslist.html#pa>
- USEPA Map of Radon Zones, <http://www.epa.gov/radon/zonemap.html>
- Pennsylvania Coastal Zone Management, <http://www.dep.state.pa.us/river/czmp.htm>
- U.S. Fish and Wildlife mapping tool, <http://wetlandsfws.er.usgs.gov/wtlnds/launch.html>
- FEMA Flood Hazard Insurance Map, <http://msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView>
- Federal Regulatory Databases (See EDR Report for a complete list)
 - NPL, April 19, 2006
 - Proposed NPL Sites, April 19, 2006
 - Delisted NPL Sites, April 19, 2006
 - NPL Recovery Sites, October 15, 1991
 - CERCLIS, February 1, 2006
 - CERCLIS-NFRAP, February 1, 2006
 - CORRACTS, March 15, 2006
 - RCRA, March 9, 2006
 - ERNS, December 31, 2005
 - HMIRS, December 31, 2005
 - U.S. Engineering Controls Sites List, March 21, 2006
 - U.S. Institutional Controls, March 21, 2006
 - DoD, December 31, 2004
 - FUDS, December 5, 2005
 - U.S. Brownsfields, April 26, 2006
 - CONSENT (Superfund Consent Decrees), December 14, 2004

- Records of Decision (ROD), April 13, 2006
 - Uranium Mill tailings Sites, November 4, 2005
 - Open Dump Inventory, June 30, 1985
 - Toxic Chemical Release Inventory System (TRIS), December 31, 2003
 - Toxic Substances Control Act (TSCA), December 31, 2002
 - Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)/ TSCA, March 29, 2006
 - FIFRA/TSCA Tracking System, March 31, 2006
 - Section 7 Tracking Systems, December 31, 2004
 - Integrated Compliance Information system, February 13, 2006
 - PCB Activity Database System, December 27, 2005
 - Material Licensing Tracking system, April 12, 2006
 - Mines Master Index File, February 9, 2006
 - Facility Index System/Facility Registry system (FINDS), April 27, 2006
 - RCRA Administrative Action Tracking System, April 17, 1995
 - Biennial Reporting System, December 31, 2003
- State and Local Regulatory Databases (See EDR Report for complete list)
 - Hazardous Sites Cleanup Act Site List, February 1, 2006
 - HSCA Remedial Sites Listing, May 5, 2004
 - Solid Waste Facilities/ Landfills, March 15, 2006
 - Abandoned Landfills, January 4, 2005
 - Historical Landfills Inactive, December 20, 1994
 - Historical Landfills Inventory, June 2, 1999
 - LUST, March 9, 2006
 - Unregulated Leaking Tanks, June 2, 2002
 - UST, June 1, 2006
 - Archived UST, June 1, 2006
 - Leaking AST, March 9, 2006
 - AST, June 1, 2006
 - Archived AST, June 1, 2006
 - Manifest, June 12, 2006
 - Act 2-Deed, June 20, 2006
 - Engineering Controls, March 8, 2006
 - Institutional Controls, March 8, 2006
 - VCP, June 20, 2006
 - Drycleaners, May 1, 2006
 - Pennsylvania Brownfields, June 20, 2006
 - Permit and Emissions Inventory Database, December 31, 2004

Agencies Contacted

- City of Bloomsburg, Pennsylvania
- Scott Township Zoning Department
- Pennsylvania Department of Environmental Protection

- Columbia County, Pennsylvania

Works Cited

CH2M Hill, 1995. 79th ARCOM remedial Design Closures of 20 OMS Pits, U.S. Army Reserve Centers. April.

EA (EA Engineering, Science, and Technology), 1995a. Environmental compliance Assessment, Army Reserve (ECAAR), Follow-up Actions for the 79th ARCOM.

EA (EA Engineering, Science, and Technology), 1995b. Hazardous Waste Management Plan, Bloomsburg USAR Center. July.

Engineering Technologies Associates, 1996. UST Closure Report for Bloomsburg USARC, 1469 Old Berwick Road, Bloomsburg, PA 17815-3027. November.

Entech Engineering, 1990. Utility Site Plan for HVAC Renovations for USAR Center, Bloomsburg, Pennsylvania. Drawing No. 8951. March.

Goodman, Sheri, 1996. Deputy Under Secretary of Defense Memorandum: Clarification of "Uncontaminated" Environmental Condition of Property at Base Realignment and Closure (BRAC) Installations. October 21.

Horne Engineering Services, 2001. Oil/Water Separator Survey Report for 99th RSC Customer Support Team #1. January 24.

KFS Historic Preservation Group, 1995. Cultural Resource Management Plan, 79th Army Reserve Command. July.

PP&L (Pennsylvania Power & Light), 1994. USAR Centers (Lewisburg, Bloomsburg, Williamsport) Transformer Inquiry.

PSOTNC (Pennsylvania Science Office of The Nature Conservancy), 1995. An Inventory of Significant Biological Resources At U.S. Army Reserve Centers in Central and Eastern Pennsylvania.

U.S. Army, 1964. Site Landscape Drawing for Army Reserve Center, Bloomsburg, Pennsylvania. Drawing No. 16-12-20. June 5.

U.S. Army, 1994a. Environmental Compliance Assessment performed by the 416th Engineer Command's Fort Indiantown Gap Facility Engineer Teams for the Bloomsburg USARC. January 26.

U.S. Army, 1994b. Memorandum: Radon Testing Results. February 28.

U.S. Army, 1995a. Installation Restoration Program/Installation Action Plan, Bloomsburg USAR Center, 1469 Old Berwick Road, Bloomsburg, Pennsylvania.

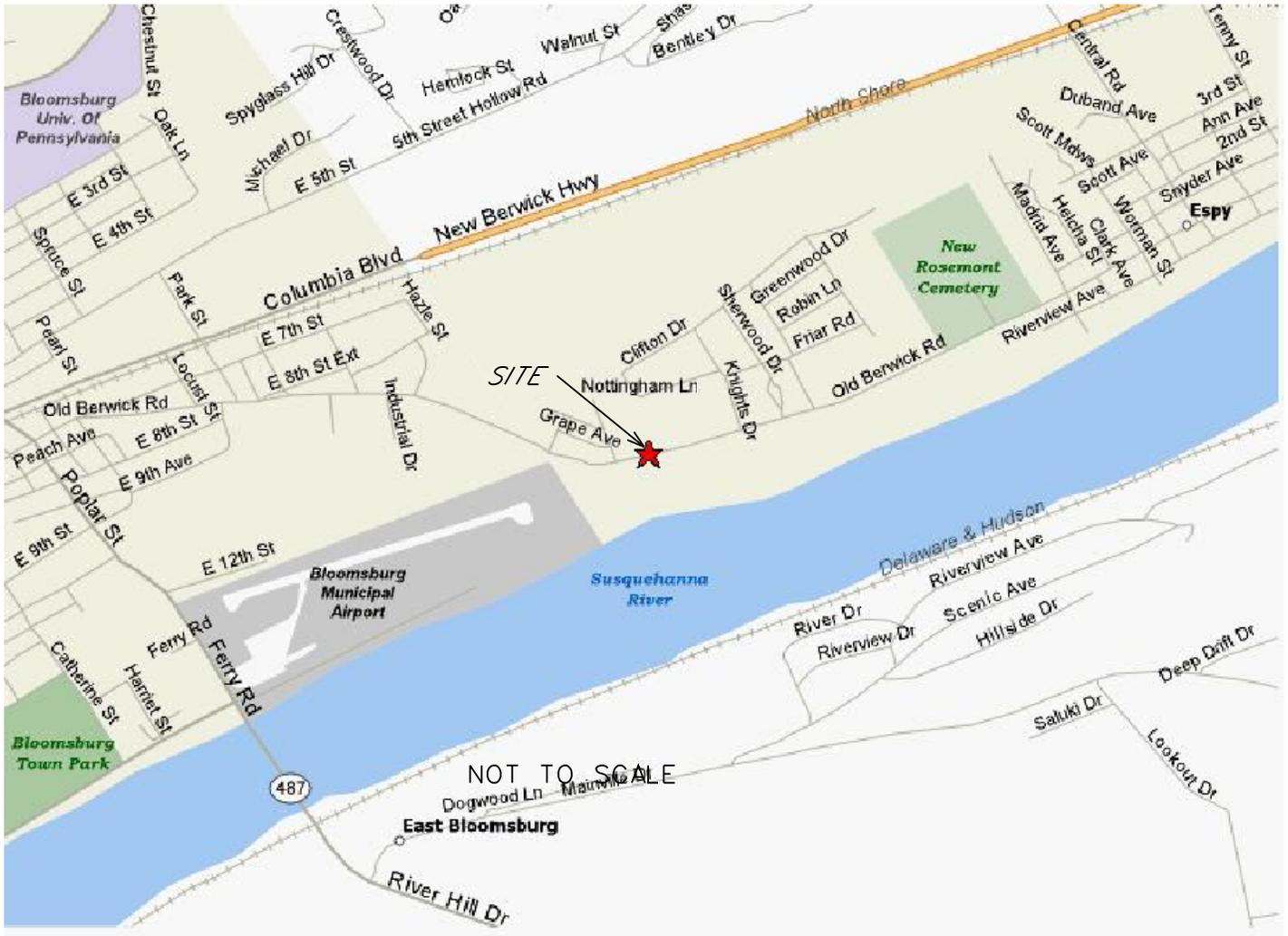
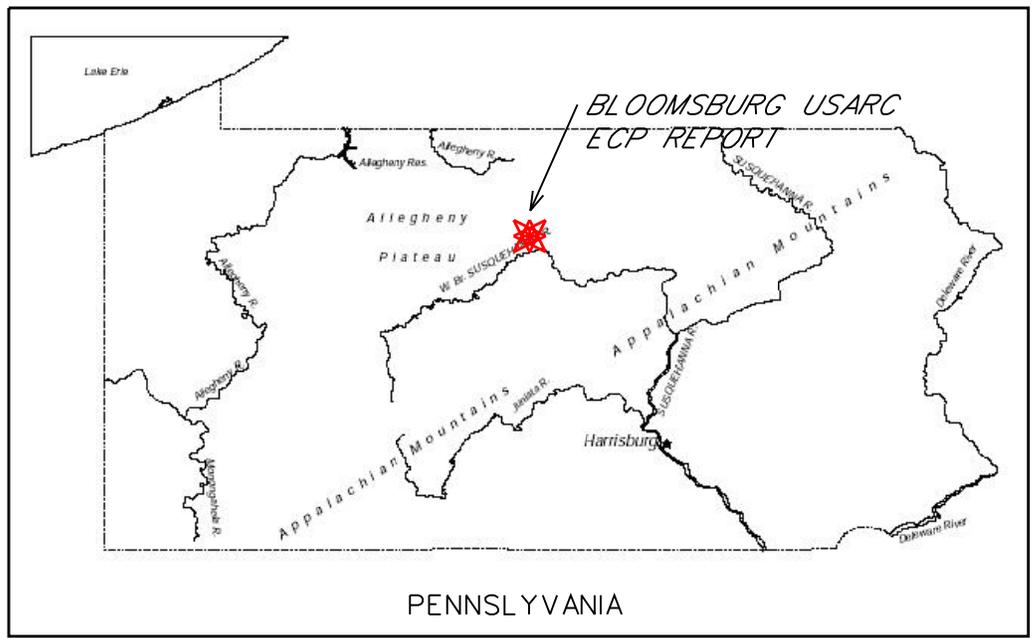
U.S. Army, 1995b. Hazardous Waste Management Consultation provided by the 79th Army Reserve Command. April 2-6.

U.S. Army, 1996. Radon Program: Bloomsburg USAR Center, Bloomsburg, Pennsylvania.

U.S. Army, 2001. Engineering and Environmental Facility Assessment for Bloomsburg USAR Center, Bloomsburg, Pennsylvania, Facility ID No. PA009. June 3.

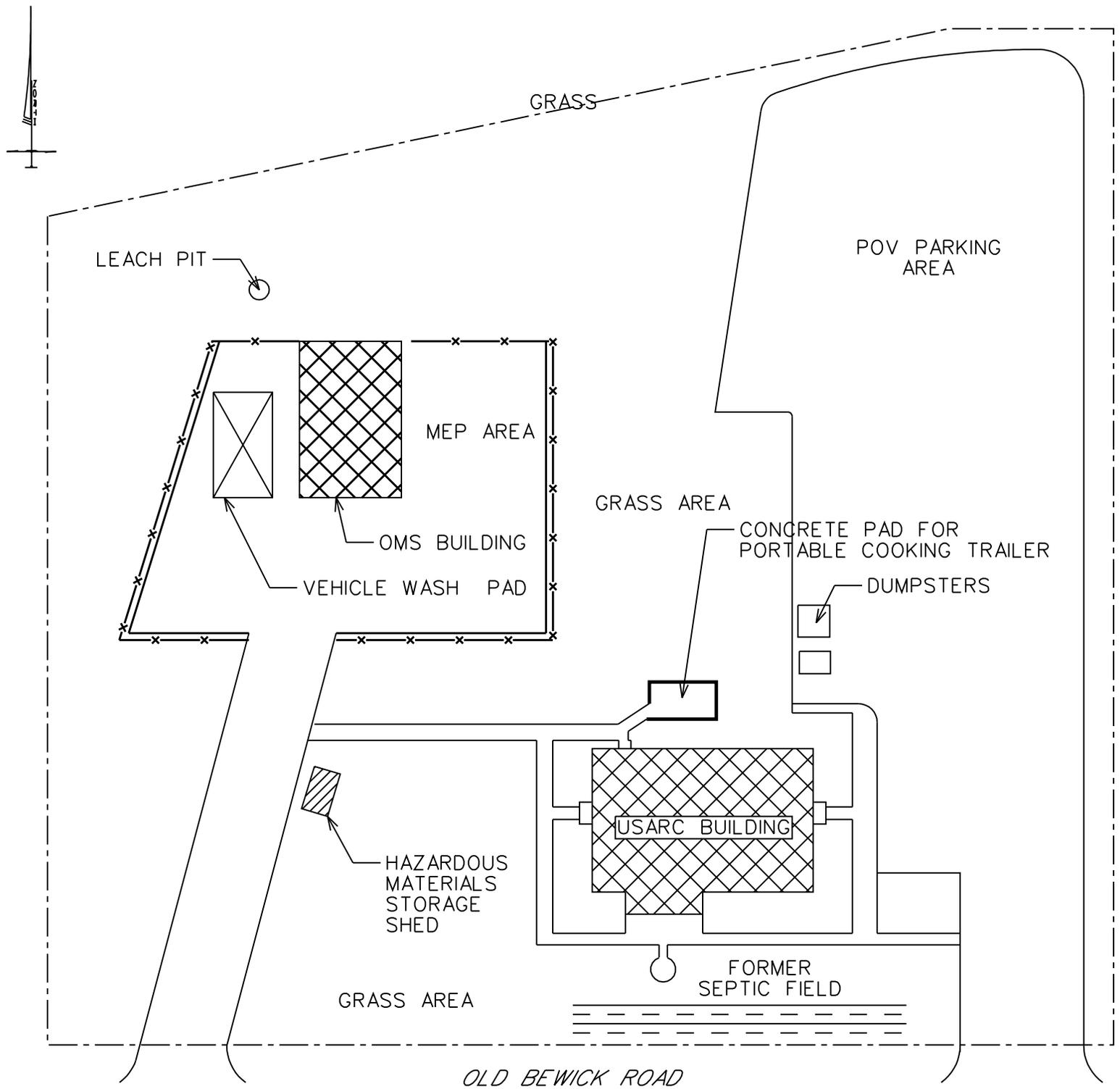
U.S. Army, 2004. Engineering and Environmental Facility Assessment for Bloomsburg USAR Center, Bloomsburg, Pennsylvania, Facility ID No. PA009. December 2.

Appendix A
Figures



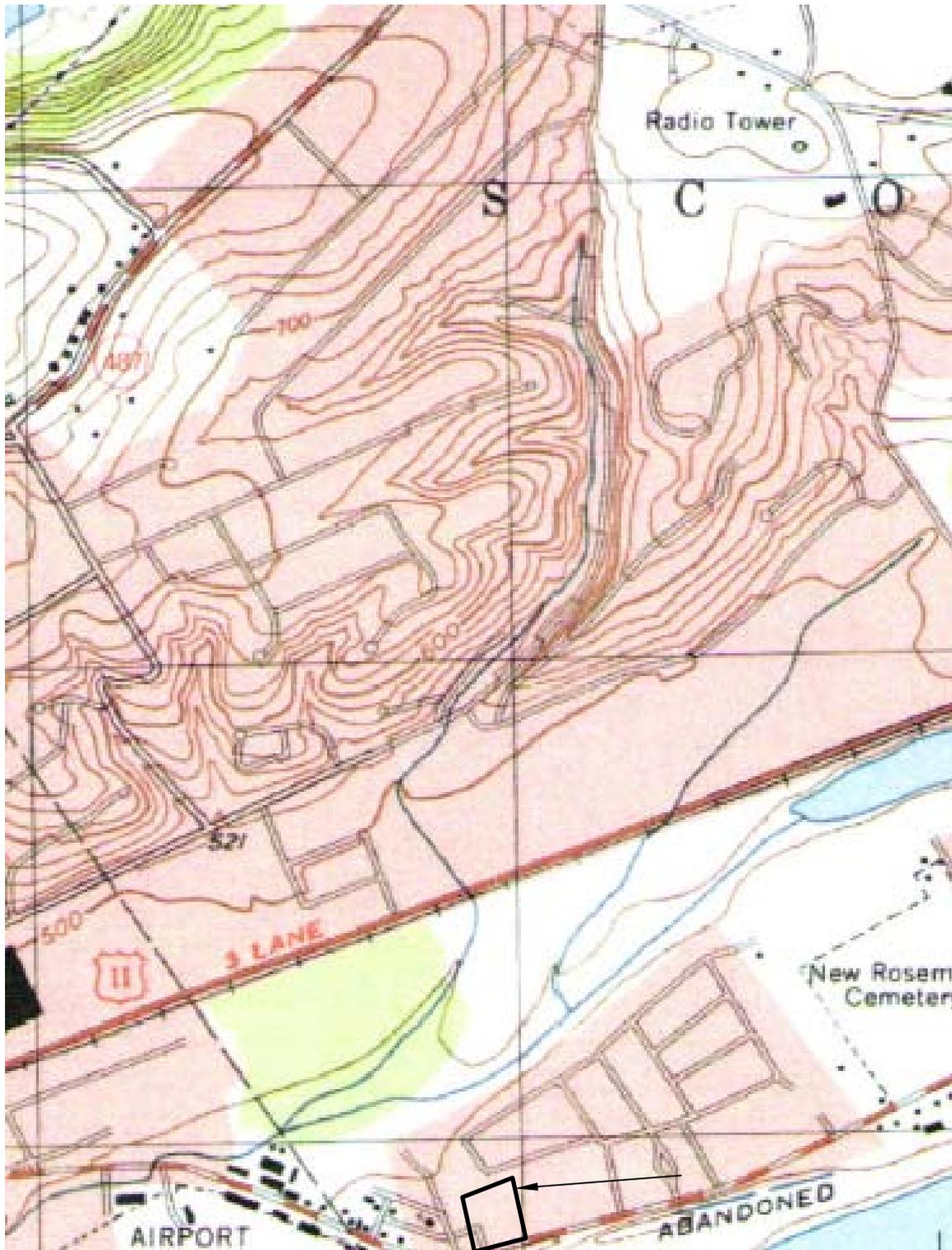
NOT TO SCALE

FIGURE 1
 GENERAL SITE LAYOUT MAP
 Bloomsburg USARC Center ECP Report
 Bloomsburg, Pennsylvania



NOT TO SCALE

FIGURE 2
 SITE LAYOUT PLAN
 Bloomsburg USAR Center ECP Report
 Bloomsburg, Pennsylvania



— = 900'
Source: EDR

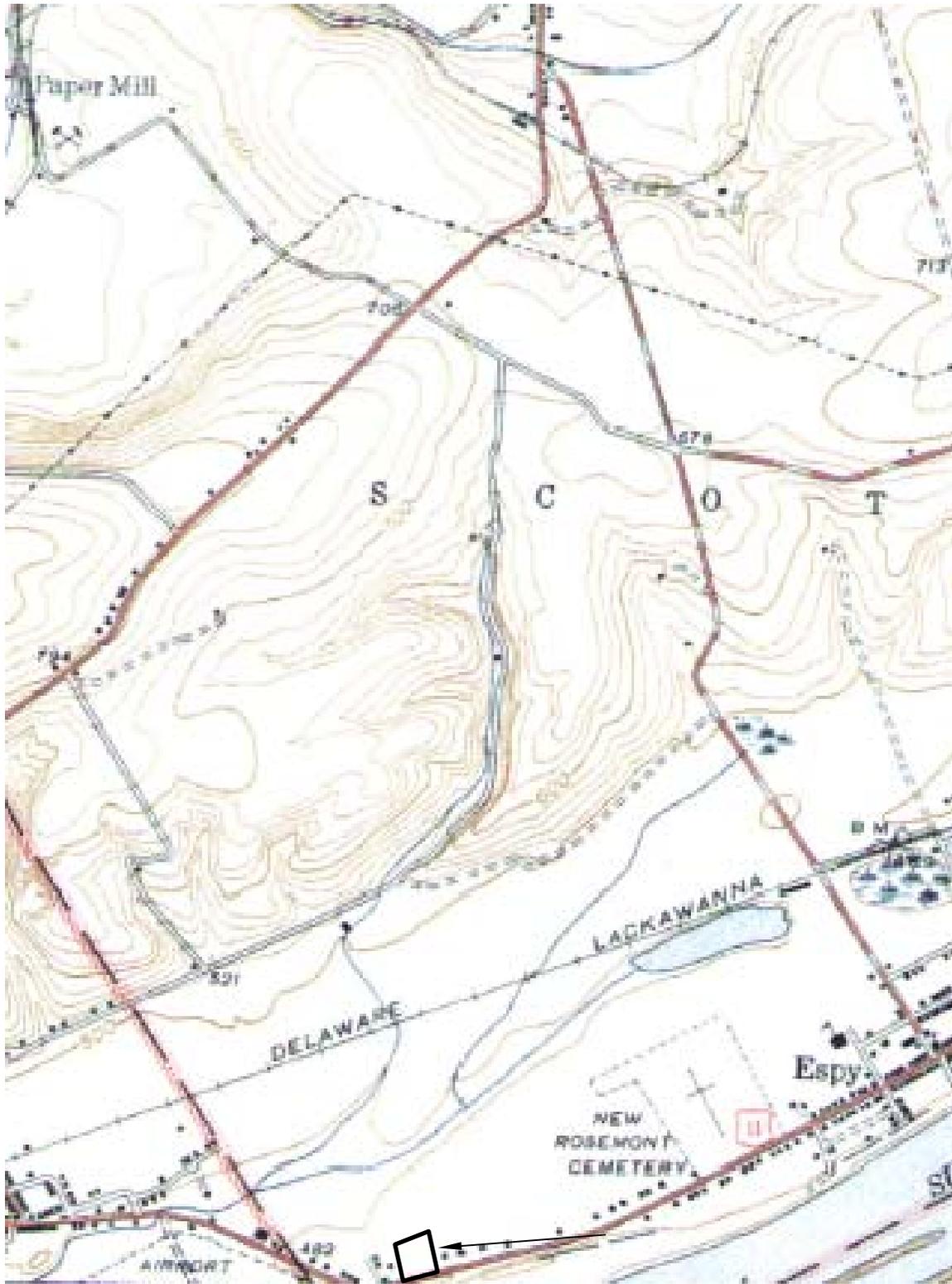
FIGURE 3
1999 USGS 7.5 Minute, Topographic Map, Bloomsburg, PA
Bloomsburg USAR Center ECP Report
Bloomsburg, Pennsylvania



— = 2800'
Source: EDR

FIGURE 4
1894 USGS Historical Topographic Map
Bloomsburg USAR Center ECP Report
Bloomsburg, Pennsylvania

↑ N



— = 1350'
Source: EDR

FIGURE 5
1947 USGS Historical Topographic Map
Bloomsburg USAR Center ECP Report
Bloomsburg, Pennsylvania

↑ N



— = 900'
Source: EDR

FIGURE 6
1953 USGS Historical Topographic Map
Bloomsburg USAR Center ECP Report
Bloomsburg, Pennsylvania



CH2MHILL



FIGURE 7
1969 Aerial Photograph
Bloomsburg USAR Center ECP Report
Bloomsburg, Pennsylvania

— = 600'
Source: Banks Information Solutions



↑N



— = 900'
Source: EDR

FIGURE 8
1975 USGS Historical Topographic Map
Bloomsburg USAR Center ECP Report
Bloomsburg, Pennsylvania



FIGURE 9
1976 Aerial Photograph
Bloomsburg USAR Center ECP Report
Bloomsburg, Pennsylvania

— = 550'

Source: Banks Information Solutions



↑ N



— = 900'
Source: EDR

FIGURE 10
1983 USGS Historical Topographic Map
Bloomsburg USAR Center ECP Report
Bloomsburg, Pennsylvania



FIGURE 11
1999 Aerial Photograph
Bloomsburg USAR Center ECP Report
Bloomsburg, Pennsylvania

— = 750'
Source: Banks Information Solutions



Appendix B
Site Reconnaissance
Photographs

APPENDIX B

Site Reconnaissance Photographs



1. View to the north of the OMS building.



2. View to the east of flammable storage shed on western portion of Property.



3. View to north of vehicle wash area located on west side of OMS building.



4. View to the east of the leach pit located north of the vehicle wash area (former 550-gallon fuel oil UST location to east of leach pit).



5. View to the west of the north side of the administration building (former 1,500-gallon fuel oil UST location between concrete pad and CONEX containers in background).



6. View to the southwest of concrete pad on north side of administration building (location of portable cooking trailer).



7. View to northeast of the radon mitigation system on the south side of the administration building.



8. View to northwest of the former vehicle maintenance pit located inside the OMS building.



9. View to west of the southern portion of the Property along Old Berwick Road.



10. Garbage can located next to dumpsters containing ash and partially burned debris of an unknown origin.

Appendix C
**Property Acquisition Documents
and Chain of Title Report**



2055 East Rio Salado Parkway, Suite 201
Tempe, Arizona 85281
Phone: (480) 967-6752
Fax Number: (480) 966-9422
Web Site: www.netronline.com

HISTORICAL CHAIN OF TITLE REPORT

**BLOOMSBURG USARC, PA
1469 OLD BERWICK RD
BLOOMSBURG, PENNSYLVANIA**

Submitted to:

**ENVIRONMENTAL DATA RESOURCES, INC.
C/O
CH2M HILL
1569 Stampmill Way
Lawrenceville, Georgia 30043
(770) 338-1589**

Attention: Mary Jacques

Project No. N06-5595

Tuesday, September 19, 2006

NETR- Real Estate Research & Information hereby submits the following ASTM historical chain-of-title to the land described below, subject to the leases/miscellaneous shown in Section 2. Title to the estate or interest covered by this report appears to be vested in:

UNITED STATES OF AMERICA

The following is the current property legal description:

Being that parcel or tract of land, known as Tract 100, containing 2 acres, more or less, situated and lying along Old U.S. Route No. 11 also known as Berwick Road in Scott Township, the City of Bloomsburg, Columbia County, State of Pennsylvania

Assessor's Parcel No: 31 03B09200000

1. HISTORICAL CHAIN OF TITLE

1. DEED:
 - RECORDED: 12-02-1926
 - GRANTOR: Fred D. Hughes, et ux
 - GRANTEE: Nita Melody
 - INSTRUMENT: Bk 103, Pg 135

2. DEED:
 - RECORDED: 06-28-1939
 - GRANTOR: Gertrude Keller
 - GRANTEE: Legion Home Association
 - INSTRUMENT: Bk 116, Pg 434

3. DEED:
 - RECORDED: 04-19-1940
 - GRANTOR: Rolland Bower
 - GRANTEE: Charles Pursel and Hervey B. Smith
 - INSTRUMENT: Bk 119, Pg 685

4. DEED:
 - RECORDED: 03-12-1947
 - GRANTOR: Charles M. Pursel & Janet C. Pursel, his wife and
Hervey B. Smith & Pauline L. Smith, his wife
 - GRANTEE: Legion Home Association
 - INSTRUMENT: Bk 130, Pg 440

5. DEED:
 - RECORDED: 09-08-1949
 - GRANTOR: Mrs. Nita Melody, widow, sometimes known as Nina
Clossen
 - GRANTEE: Legion Home Association
 - INSTRUMENT: Bk 140, Pg 157

6. DEED:
 - RECORDED: 11-30-1965
 - GRANTOR: American Legion Home Association
 - GRANTEE: The United States of America
 - INSTRUMENT: Bk 230, Pg 413

7. CORRECTIVE DEED:

RECORDED: 10-31-1996

GRANTOR: American Legion Home Association, also known as
Valley of Bloomsburg, Post #273, American Legion,
Department of Pennsylvania

GRANTEE: The United States of America

INSTRUMENT: Bk 640, Pg 852

2. LEASES AND MISCELLANEOUS

1. No environmental liens, institutional controls or engineering controls were found of record.

3. LIMITATION

This report was prepared for the use of Environmental Data Resources, Inc., and CH2M Hill, exclusively. This report is neither a guarantee of title, a commitment to insure, or a policy of title insurance. NETR- Real Estate Research & Information does not guarantee nor include any warranty of any kind whether expressed or implied, about the validity of all information included in this report since this information is retrieved as it is recorded from the various agencies that make it available. The total liability is limited to the fee paid for this report.

Appendix D
**Previous Environmental
Site Assessment Reports**

SUMMARY OF FINDINGS
BLOOMSBURG

DESCRIPTION	SOLUTION
** CATEGORY 03	
* Question No. VA01-04 The facility does not have an air pollution emissions inventory.	Initiate an inventory of all sources of air pollution, estimate the total emissions for each, and prepare and maintain an inventory report.
* Question No. VA01-46 CFC's are suspected to be present in the refrigeration equipment, water cooler, and ice machine. No CFC and Halon Annual Report was available.	Prepare and forward a Chlorofluorocarbon and Halon Annual Report.
* Question No. VA02-04 There is no system for investigating water pollution complaints.	Initiate a procedure for investigating water pollution complaints and allegations.
** CATEGORY 01	
* Question No. VA02-05 The USARC has a point source discharge without a NPDES permit.	Obtain a NPDES permit through contract with the Army Corps of Engineers.
** CATEGORY 03	
* Question No. VA02-15 There is no periodic surveillance of stormwater discharge.	Check stormwater surveillance locations, OMS shop area and parking lot, after heavy rains for oil sheen. The results should be documented in a log.
** CATEGORY 01	
* Question No. VA02-43 There is no SPCC Plan for the facility.	The Army Corp of Engineers is contracted to prepare an updated SPCC Plan and ISCP.
** CATEGORY 03	
* Question No. VA02-50 There is no plan for the management of reclaimed, recoverable and liquid petroleum products.	Prepare a site specific waste management plan.

SUMMARY OF FINDINGS
BLOOMSBURG

DESCRIPTION

SOLUTION

** CATEGORY 01

* Question No. VA02-51

No training has been conducted in spill prevention and response.

Conduct training for the handling, spill prevention, and spill response of oil and hazardous substances.

* Question No. VA03-03

There is no backflow preventer on the 1" water main to the OMS. Also there is no backflow preventer on the janitor sink in Room 103 and the interior hose bibs in the boiler room and OMS.

Install backflow preventers on the water system and hose bibs.

** CATEGORY 03

* Question No. VA05-09

Facility waste receptacles are not being inspected quarterly.

Develop and implement a quarterly inspection program and maintain a written record of inspection.

* Question No. VA05-10

There is no program to keep personnel informed about proper waste disposal practices.

Incorporate a program to keep personnel informed of proper waste handling procedures. Couple this program with other routine programs, publications, and briefings.

** CATEGORY 01

* Question No. VA05-13

Contract documents do not require the vehicles used for the collection and transportation of solid wastes to meet applicable standards of 49 CFR parts 360 through 396-motor carrier safety standards; 40 CFR part 202-noise safety standards for motor carriers engaged in interstate commerce.

Require the waste hauler to comply with the applicable portions of these CFR's.

* Question No. VA05-14

Contract documents do not require the equipment to be operated and maintained adequately and to meet

Require the waste hauler to provide adequate equipment through the contract

SUMMARY OF FINDINGS
BLOOMSBURG

DESCRIPTION	SOLUTION
the standards established by the American National Standards Institute.	documents.
** CATEGORY 02	
* Question No. VA06-06 The 1,500 gallon and the 500 gallon heating oil tanks have no overfill prevention equipment.	Overfill prevention equipment is required by 1998. Issue a contract to install overflow prevention equipment.
** CATEGORY 03	
* Question No. VA07-04 There was no screening for past hazardous substances.	Screen for hazardous substances.
** CATEGORY 02	
* Question No. VA07-15 The facility has not submitted MSDS's to the local and state emergency management agencies and the local fire department for all petroleum products in amounts greater than 10,000 pounds or 1,500 gallons.	Submit a copy of MSDS's to the local and state emergency management agencies for all petroleum products in amounts greater than 10,000 pounds on hand and identify location.
** CATEGORY 01	
* Question No. VA08-14 Real property records indicate that transformers located on PP&L pole # 36480 N30659 are government property. Transformers have not been tested for PCB's.	First establish ownership of the transformer. Then test the transformer for PCB's.
** CATEGORY 03	
* Question No. VA10-04 No survey has been conducted to locate and inventory possible historic or cultural resources.	Conduct a site survey of historic or cultural resources to locate and preserve.
* Question No. VA12-09 No environmental assessment exists on this facility.	Perform a separate environmental assessment or utilize the 416th ENCOM ECARR and prepare an update/new categorical exclusion for the

SUMMARY OF FINDINGS
BLOOMSBURG

DESCRIPTION	SOLUTION
	facility.
* Question No. VA12-08 No documentation was found to indicate that proper environmental consideration was given to proposed activities at the facility, which may have qualified for a Categorical Exclusion (CX's).	Train facility environmental coordinator to assess proposed actions IAW current NEPA and Army regulations. Establish a SOP for documenting environmental assessment of proposed activities.
* Question No. VA13-04 No asbestos survey has been conducted by AHERA trained personnel at the center or OMS. Asbestos containing materials (ACM) exist in the facility based on results of previous studies.	Conduct a complete facility survey with qualified asbestos management personnel.
* Question No. VA13-05 There is no asbestos management plan.	Prepare, as part of the facility asbestos survey, an asbestos management plan.
* Question No. VA14-04 No record of an Installation Compatible Use Zone (ICUZ) program study was available at the facility.	Perform an abbreviated compatible use zone study.
* Question No. VA14-06 The facility is located adjacent to residential properties. The facility is in a residential suburban zoning district and is a nonconforming use. The Scott Township does not have a noise ordinance establishing maximum noise levels for daily time periods.	Conduct a noise study to measure levels and identify sensitive receptors. Develop a noise mitigation plan. Coordinate the plan with the appropriate agencies and solicit community input.
* Question No. VA14-11 The facility has not instituted a noise compliant procedure.	Establish a SOP for handling noise complaints and institute a noise compliant procedure.
* Question No. VA16-02 Facility did not have all relevant environmental publications.	Obtain copies of all relevant publications. Lists of Federal, DoD and Army publications can be obtained

SUMMARY OF FINDINGS
BLOOMSBURG

DESCRIPTION	SOLUTION
	from the Commanders Guide to Environmental Management and AR 200-1, Appendix A (References).
* Question No. VA16-21 The Facility Environmental Coordinator has not been formally informed of all environmental management responsibilities.	The designated Facility Environmental Coordinator should have environmental management responsibilities included in their job description and be actively involved with all environmental affairs.
* Question No. VA16-06 Installation has not developed an environmental affairs training program for its personnel which are involved in environmental matters.	Maintain formal training program and encourage all individuals involved to seek further education, through Army offered environmental schools. Obtain a copy of the Department of the Army Environmental Training Guide.
* Question No. VA11-13 No survey has been done for endangered and threatened species.	Conduct a survey for endangered and threatened species.
* Question No. VA04-04 There is no evidence of a site specific hazardous management plan.	Develop a generic Hazardous Materials Waste Management Plan. Adapt the generic plan to the USARC site specific needs. The plan should address hazmat/waste inventory and handling procedures, SPCC Plan, Personnel training records, MSDS's and copies of hazardous waste contracts and government QC/QA guidelines for haulers.
* Question No. VA04-05 There is no annual inventory of hazardous waste.	Incorporate hazardous materials and waste management plan, hazmin efforts, inventories, and inspection logs into one document.

SUMMARY OF FINDINGS
BLOOMSBURG

DESCRIPTION

SOLUTION

* Question No. VA04-06
Facility has not initiated a Haz Min program. Initiate a Haz Min program and incorporate inspection logs.

** CATEGORY 01

* Question No. VA04-25
Proper training is not being provided for individuals who handle hazardous waste. Develop training program for individuals involved with Haz Mat Management Plan and hazardous waste material handling. Also investigate if CFR requires handlers to be on a medical surveillance program.

* Question No. VA17-17
Storage areas for hazardous materials and hazardous waste and petroleum products do not afford secondary containment or an exhaust ventilation system. Utilize drum pallet included with spill kits or install other secondary containment. Train personnel on the use of spill kits. Install gravity or mechanical exhaust ventilation system.

** CATEGORY 03

* Question No. VA17-04
Master listing of hazardous materials has not been incorporated in Spill Prevention Control Countermeasures Plan (SPCCP). Develop and incorporate a master listing of hazardous substances into a SPCCP.

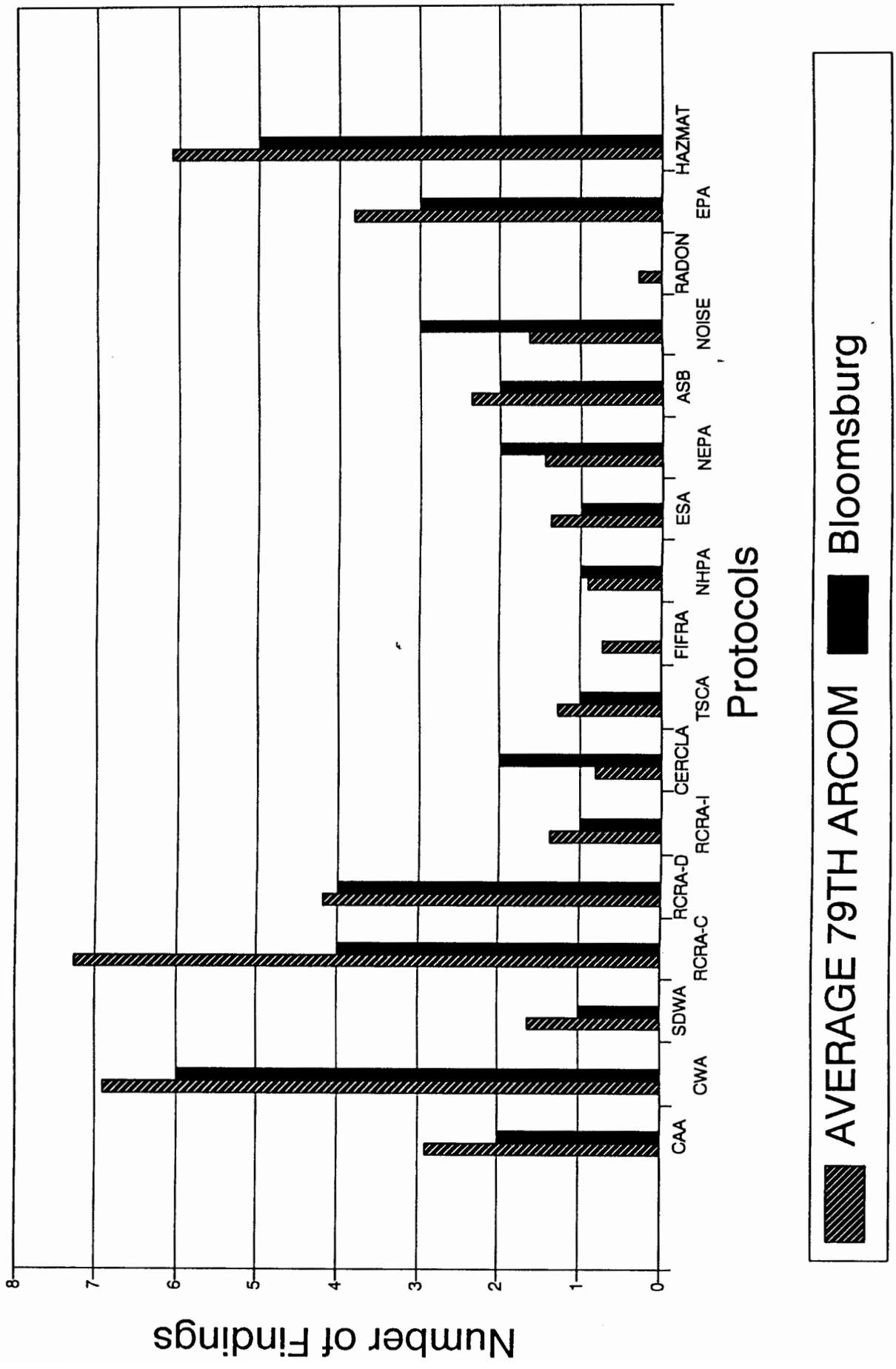
* Question No. VA17-07
Facility has not initiated hazardous material minimization program. Develop hazardous material management plan and initiate hazardous materials minimization.

* Question No. VA17-08
Unit has not coordinated with local fire department to correlate location and contents of hazardous materials. Coordinate with local fire department.

* Question No. VA17-16
Paint spray cans, spray lubricants, and other flammables stored outside flammable storage cabinets. Procure additional cabinets as necessary.

Bloomsburg/79th ARCOM Facilities

Findings By Media (All Classes)



AVERAGE 79TH ARCOM

 Bloomsburg



US Army Corps
of Engineers
Baltimore District

*79th Army Reserve Command
Cultural Resource Management Plan*

Prepared for: 79th Army Reserve Command

Prepared under contract to: U.S. Army Corps of Engineers, Baltimore District
(Contract No. DACW31-89-D-0054)
Delivery Order No. 32

Prepared by: KFS Historic Preservation Group
Kise Franks & Straw Inc.
Philadelphia, Pennsylvania

In Association with: Hunter Research, Inc.
Trenton, New Jersey

July 1995

IV. INVENTORY

A. Introduction

This chapter describes the process by which historic architectural resources and archeological site potential were identified and evaluated. Background research and site visits were conducted for each of the thirty-two facilities. The information derived from these tasks is presented on the facility data forms in Appendix C. Data entered on the forms include a research checklist of records examined, information on previous assessments, results of the current survey, and a summary description of the facility and its surroundings. The site visits were divided among three organizations: the Army Corps of Engineers, Baltimore District (ACOE), Hunter Research, Inc. (HRI), and Kise Franks & Straw (KFS).

B. Historic Architectural Resources

No historic architectural resources were identified at any of the thirty-two facilities. Facility construction dates range from 1951 to 1994. A large percentage of the facilities consist of two buildings, the reserve center and maintenance shop. Facility architecture is utilitarian, consisting of, for the most part, one and two-story rectangular brick and/or concrete block buildings with metal windows and built-up roofing. Architectural resources should be evaluated for the National Register when they attain fifty years of age.

Three of the facilities (Bristol, Edgemont, and Worcester) were established on the site of former Nike missile facilities. Most of the buildings and structures associated with the missile program were removed after the Nike program was terminated in the 1960s. In general, the only vestiges of the Nike tenancy at the facilities are underground storage silos, sewage treatment plants, and utility systems, such as sanitary sewer, storm sewer, electrical lines, water lines, and water well. In some instances, the storage silos have been converted to fire protection water storage or have been backfilled with building demolition debris. The large loss of buildings precludes these facilities from being considered significant as representatives of the Nike program. Nevertheless, the Pennsylvania SHPO only considers resources that are fifty years or older, thereby precluding resources related to the Cold War, such as the Nike missile program.¹

Although there are no eligible or potentially eligible resources on the facilities, there are adjacent or surrounding resources, namely buildings and districts, that may fall within an undertaking's area of potential effects. Adjacent resources at Bellefonte, Edgemont, and Gettysburg were previously listed on the National Register of Historic Places. In the course of field survey for the preparation of this plan, potentially eligible resources were identified neighboring the Chester and Harrisburg facilities. Facility managers should be cognizant of these issues when planning an undertaking. The specific resources are the following:

Bellefonte: Bellefonte Armory, located east of the facility, is listed on the National Register of Historic Places (NRHP).

Chester: Bell Mansion, located northeast of the facility, appears potentially eligible for the NRHP.

¹U.S. Department of Defense, Legacy Cold War Project, *Coming in from the Cold; Military Heritage in the Cold War* (Washington, 1994), 59.

Edgemont: Ridley Creek State Park Historic District, located south of the facility, is listed on the NRHP.

Gettysburg: Facility is located in the Gettysburg Historic District, listed on the NRHP.

Harrisburg: Facility is located in a residential district that appears potentially eligible for the NRHP.

C. Archeological Site Potential

Background research at the Bureau for Historic Preservation (BHP) in Harrisburg and pedestrian reconnaissance surveys of the thirty-two facilities revealed that eight of the facilities appear to have archeological site potential. Seven of the facilities are considered to have low archeological potential: Ashley, Edgemont, Gettysburg, Schuylkill Haven, State College, West Hazleton, Williamsport. Greencastle is considered to have high archeological potential. All of the facilities except Schuylkill Haven are considered to have prehistoric archeological potential. Schuylkill Haven, Greencastle and Gettysburg are considered to have historic archeological potential.

Phase 1b testing should be undertaken at facilities considered to have archeological site potential. The Phase 1b survey constitutes the next step in the determination of eligibility process. The Phase 1b results will determine if the specific location appears eligible for inclusion in the National Register of Historic Places. Appendix E contains archeological procedures for reference if archeological resources are discovered at any of the facilities, including those considered to have no potential.

The following summaries provide a fuller description of the nature of archeological potential at the facilities. The facilities are arranged by study units and references to quadrangle maps refer to archeological maps on file at the BHP.

Pennsylvania Study Unit I-- Piedmont and Coastal Plain:

Bristol: No archeological sites have been identified in the vicinity of the facility. A Phase I archeological survey (G on the U.S.G.S. Beverly quadrangle map) has been undertaken, and no archeological sites were found.

Chester: Survey records maintained by the Bureau for Historic Preservation in Harrisburg indicate that an archeological site (36DE30) containing 19th and 20th century artifacts is located near the facility.

Edgemont: Archeological site survey records maintained by the Bureau for Historic Preservation in Harrisburg indicate that three prehistoric sites in Delaware County (36DE15, 16 and 17) and two undefined sites in Chester County (36CH120 and 276) lie in the vicinity of the facility. The Delaware County sites yielded lithics and ceramics, the latter indicative of Woodland occupation. An 18th-century farmstead is located to the north of the facility. The facility is considered to have low archeological potential.

Germantown: Two archeological sites -- the Gardette Site (36PH50) and the Atwater Kent Factory Site (36PH51) -- are located in the vicinity of the facility.

Gettysburg: No archeological sites are known in the immediate vicinity, but an area of medium potential for prehistoric occupation was identified near wetlands in the southwest corner of the facility. Since the facility occupies a portion of the site of the Battle of

Gettysburg, the presence of Civil War artifacts within the property boundaries seems likely. The facility is considered to have low archeological potential.

Horsham: No archeological sites have been identified in the vicinity of the facility. An 18th-century structure stands to the south.

Lancaster: Archeological site survey records indicate that numerous prehistoric sites may be found in the vicinity of the facility. The sites (36LA421-423, 36LA655-680) are open-air loci yielding lithic artifacts.

Marcus Hook: No archeological sites have been identified in the vicinity of the facility. Since the entire site was constructed on fill placed along the Delaware River bank after 1870, no archeological sites are present within this fill. It should be noted, however, that deep excavations may encounter old river bottom with the potential for prehistoric and historic maritime artifacts.

Norristown: No archeological sites have been identified in the vicinity of the facility.

Willow Grove: No archeological sites have been identified in the vicinity of the facility.

Philadelphia (Woodhaven): No archeological sites have been identified in the vicinity of the facility.

Worcester: No archeological sites have been identified in the vicinity of the facility.

York: No archeological sites have been identified in the vicinity of the facility.

Pennsylvania Study Unit II-- Ridge and Valley:

Ashley: No archeological sites have been identified within the immediate vicinity of the facility. The presence of a wetland to the west of the facility suggests that evidence of prehistoric occupation could be found, but grading and filling throughout most of the facility have probably removed most of that potential. The facility is considered to have low archeological potential.

Bellefonte: No archeological sites have been identified in the immediate vicinity of the facility.

Bethlehem: No archeological sites have been identified in the vicinity of the Bethlehem facility.

Bloomsburg: No archeological sites have been identified in the vicinity of the facility. An archeological survey (D on the U.S.G.S. Bloomsburg quadrangle map) has been undertaken, but the report which described that survey was not available for study at the Bureau for Historic Preservation in Harrisburg.

Chambersburg: No archeological sites have been located in the vicinity of the facility.

Greencastle: A review of the Pennsylvania Archeological Site Survey files in Harrisburg indicates that numerous prehistoric sites (36FR205-222) may be found in the general vicinity of the facility. These sites date from the Early Archaic to the Late Woodland periods and have yielded lithic projectile points and other tools, ceramics, pipe fragments, a shell bead, and possibly human bone. The occupants of these sites utilized the local rhyolite outcrops for lithic raw material almost exclusively.

The northern fenced portion of the facility appears to be completely disturbed, but the southern wooded portion contains rhyolite outcrops, and one shovel test excavation yielded a prehistoric rhyolite flake. A surface scatter of historic artifacts is also present in the southern portion. The facility is considered to have high archeological potential.

Harrisburg: No archeological sites have been located in the vicinity of the facility.

Lewisburg: The Pennsylvania SHPO has previously determined the Lewisburg facility contained no archeological potential and did not warrant archeological survey (see Appendix B).

Lewistown: No archeological sites have been located in the immediate vicinity of the facility.

New Cumberland: One prehistoric archeological site is located north of the facility on the Susquehanna River. There are no archeological sites in the general vicinity of the reserve center.

Reading: The Pennsylvania SHPO has previously determined the Reading facility contained no archeological potential and did not warrant archeological survey (see Appendix B).

Schuylkill Haven: The facility is located on or near the site of a late 19th-early 20th century almshouse. The site of a cemetery associated with the almshouse is reportedly immediately beyond the western boundary fence of the facility. No archeological sites are indicated in the vicinity of the facility. The facility is considered to have low archeological potential.

Scranton: A series of prehistoric rock shelters (36LW008) are located in the general vicinity of the facility. No specific temporal affiliations were indicated in the Pennsylvania Archeological Site Survey files.

State College: Three prehistoric sites (36CE281, 336 and 337) are located in the immediate vicinity of the facility. The sites, ranging in date from Early to Late Archaic, contain jasper flakes and chert projectile points. The proximity of these sites suggests evidence of prehistoric occupation may have existed within the boundaries of the facility, although construction associated with the buildings and parking areas have resulted in a certain degree of disturbance. The facility is considered to have low archeological potential.

West Hazleton: Pennsylvania Archeological Site Survey records in Harrisburg record that a prehistoric shell midden with associated pottery indicative of Woodland occupation (36LU175) is located near the facility. A historic site related to a 19th-20th century building (36LU126) is also located in the vicinity. The facility is considered to have low archeological potential.

Wilkes-Barre (Highway 315): No archeological sites have been recorded for the immediate vicinity of the facility.

Wilkes-Barre (AMSA #32, 100 Stephens Road): No archeological sites have been recorded for the immediate vicinity of the facility.

Williamsport: No archeological sites have been reported for the vicinity of the facility. The proximity of Miller's Run Creek, which forms the northern and eastern boundary of the facility, suggests that evidence of prehistoric occupation may be found within the grounds of the facility. The facility is considered to have low archeological potential.

Pennsylvania Study Unit III-- Appalachian Plateau:

Lock Haven: The Pennsylvania SHPO has previously determined the Lock Haven facility contained no archeological potential and did not warrant archeological survey (see Appendix B).

An Inventory Of Significant Biological Resources At U. S. Army Reserve Centers In Central And Eastern Pennsylvania

for

Commander

U. S. Army Garrison

Fort Indiantown Gap Military Reservation

Annville, PA 17003-5011

by

Pennsylvania Science Office

The Nature Conservancy

34 Airport Drive

Middletown, PA 17057

updated by

99th Reserve Support Command

Customer Support Team - Willow Grove

1995

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Acknowledgment

The Pennsylvania Science Office of The Nature Conservancy expresses appreciation to Ken Malick of Fort Indiantown Gap Military Reservation for his assistance during the study.

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Abstract

The presence of significant biological resources - federal and state listed animal and plant species of concern, state listed natural communities and wetlands - was investigated at thirty-nine U. S. Army reserve Centers in central and eastern Pennsylvania in 1993 and 1994. The project involved review and study of various databases and maps, particularly those of the Pennsylvania Natural Diversity Inventory, and field surveys. A small population of plant species of concern with a state status of tentatively undetermined, the rusty flatsedge (*Cyperus odoratus*), was found at Marcus Hook, Delaware County. An area of wetlands was identified at Ashley, Luzerne County. The Army Reserve facilities had, in general, a high degree of development and lacked natural and environmental conditions and suitable habitat for species of concern.

Introduction

In 1988, The Nature Conservancy and the U. S. Department of Defense agreed on a cooperative effort to identify, document and maintain biological diversity at Defense installations in the United States (Appendix I).

In keeping with that agreement, in 1993 and 1994 the Pennsylvania Science Office of The Nature Conservancy investigated the potential occurrence of significant biological resources at thirty-nine U. S. Army Reserve Centers (USARCs) supported by Fort Indiantown Gap Military Reservation (FTIG). The USARC facilities are located in twenty-three counties in eastern and central Pennsylvania.

The major focus was to document extant and historical occurrences of federal and state listed animal and plant species of concern and the presence of natural communities and wetlands at each USARC facility. Another objective was to provide protection, management and stewardship recommendations for the significant biological resources that were identified.

Prior to this study, the USARC facilities had never been specifically inventoried for biological resources. With the current awareness of the importance of biological diversity, the project was necessary to provide information that could be utilized in resource planning and land management decisions at each USARC.

A species of concern is an animal or plant species formally listed, proposed to be listed, or being considered as a candidate for listing by the federal government, a species listed by the Commonwealth of Pennsylvania, or a species having global or state rank of G1, G2, G3, S1, S2, S3, SU or SX, as determined by the Pennsylvania Natural Diversity Inventory (Appendices II, III and IV). The global and state ranking system, developed by The Nature Conservancy, gauges the rareness of a species in its overall range (global rank) and in its range within the boundaries of a state (state rank).

A natural community is defined as an outstanding example of a recognized habitat type (Appendix V). In general, a natural community is characterized by the following:

1. functioning, stable populations of the animal or plant a species that are representative of its type,
2. an absolute minimum of disturbance, and
3. the presence of a surrounding buffer.

Wetlands are considered to be areas inundated or saturated by surface or ground water at a high frequency and duration sufficient to support a prevalence of vegetation typically adapted for life in such soil conditions.

Methods

Office Research

The study involved research and investigation in the office and in the field. Although conducting field work was the main priority of the project, the office was used in planning the field investigations.

The initial phase of the study was to identify previously documented occurrences of species of concern and natural communities at the USARC facilities. The primary of this information were the databases and maps of the Pennsylvania Natural Diversity Inventory (PNDI). PNDI is the Pennsylvania component of the nationwide Natural Heritage network and is the major repository of data relating to species of concern and natural communities in the state (2; Appendix IV).

Documented occurrences of species of concern may be extant or historical. An extant occurrence is one in which living individuals or an established population of a given species have been documented by PNDI personnel. Extant occurrences date from 1981 (the beginning of PNDI) to 1994. A historical occurrence refers to a previous (before 1981) specimen record or observation of a species, which has not been confirmed or verified as still extant at the original location by PNDI personnel. Documented occurrences of natural communities may also be extant or historical.

Potential occurrences for species of concern, natural communities, and wetlands within the USARC installations were identified by inspection of aerial photographs, topographic maps, National Wetland Inventory maps issued by the U. S. Fish and Wildlife Service, and the databases and maps of the Pennsylvania Natural Diversity Inventory (2,3).

Field Surveys

Field investigations were conducted in May, June, July, August and September, 1994. Thirty-six of the facilities were visited once and three of the facilities were visited twice.

The field work at each installation consisted of visual surveys of the entire property, followed by more intensive surveys of areas that appeared to have potential for species of concern and natural communities, or were identified as wetlands.

Results

The first part of this section discusses the major results of the project. The second part contains a brief description and U. S. G. S. topographic quadrangle map of each USARC facility. Additional, more detailed maps of certain facilities are included, if applicable.

The preliminary office research, including a review of the databases and maps of the Pennsylvania Natural Diversity Inventory, did not reveal the presence of any documented extant or historical occurrences of species of concern or natural communities at the USARC installations/ (2).

The field surveys produced one occurrence of a state listed plant species of concern - the rusty flatsedge (*Cyperus odoratus*) - at Marcus Hook, Delaware County. No natural communities were found at the USARC installations. Wetlands were identified at Ashley, Luzerne County. These occurrences are discussed in greater detail under the respective USARC.

Bloomsburg USAR Center

USARC LOCATION: Bloomsburg

ADDRESS: 1469 Old Berwick Road
Bloomsburg
Pennsylvania
17815-3027

COUNTY: Columbia

MUNICIPALITY: Bloomsburg

U. S. G. S. QUADRANGLE: Bloomsburg

DATE OF VISIT: 2 June 1994
24 June 1994

DESCRIPTION OF FACILITY:

The facility consists of lawn, undeveloped waste ground, parking lot and buildings.

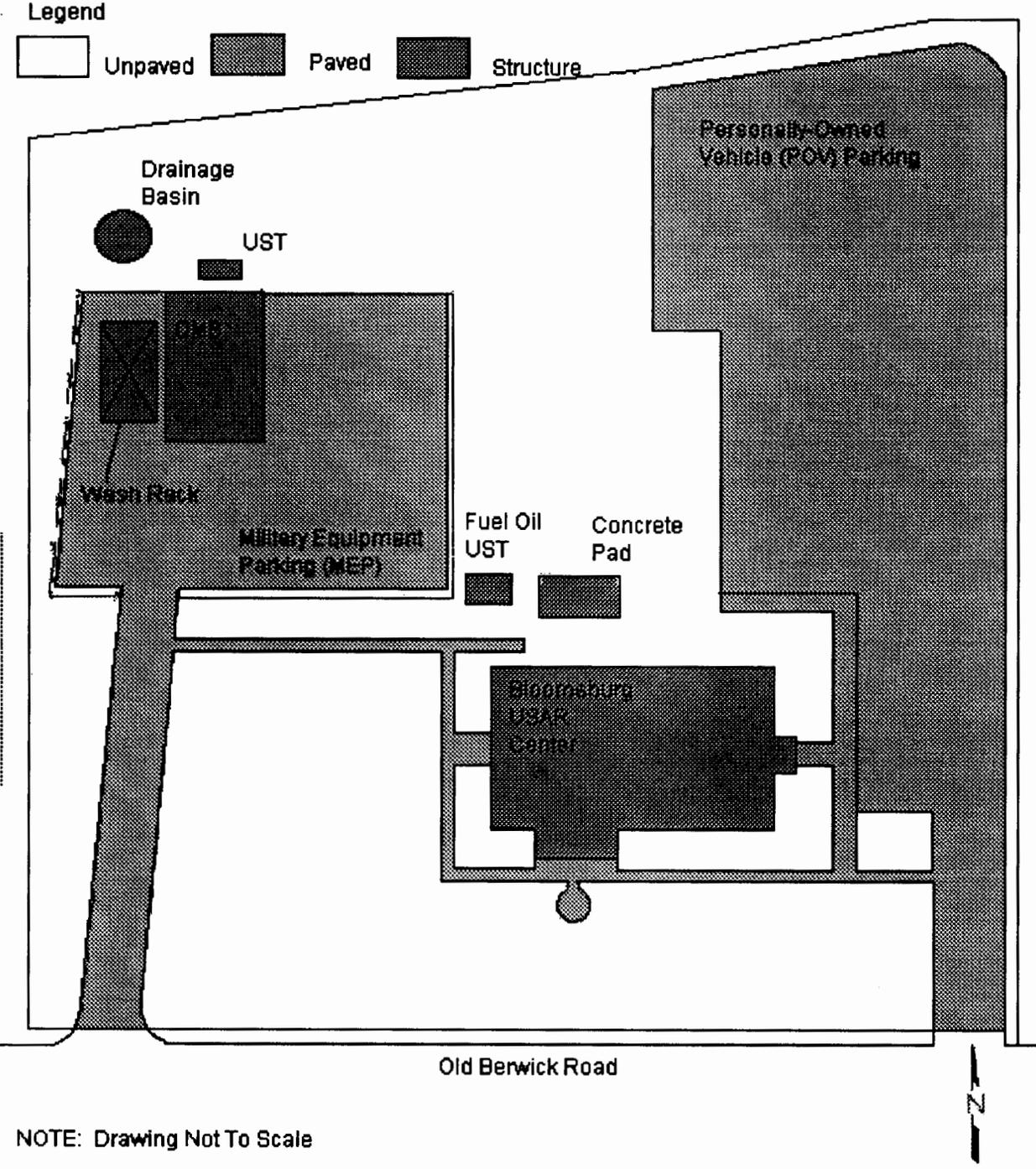
LOCAL LAND USE:

Light Industrial Park

SIGNIFICANT BIOLOGICAL RESOURCES:

No species of concern, natural communities or wetlands were found. There is no potential for species of concern due to the absence of suitable habitats.

Bloomsburg USAR Center Site Plan



Conclusions And Recommendations

1. A state listed plant species of concern, the rusty flatsedge (*Cyperus odoratus*), was found at the Marcus Hook Marine AMSA. In the opinion of the Pennsylvania Science Office of The Nature Conservancy, no special protection or management practices are needed for this occurrence.
2. A wetland was identified at the Ashley USARC. In the opinion of the Pennsylvania Science Office of The Nature Conservancy, this wetland is of low quality. Nevertheless, it should be protected from hydrological modifications and mowing.
3. A single butternut tree (*Juglans cinerea*) was encountered in a riparian environment at the Lycoming USARC. This species appears to be declining throughout its range due to a fungus. Although not currently tracked by the PNDI, it may become a candidate species in the future. It, and its riparian environment, should be protected from future development and site modification.
4. No natural communities were found at the USARC facilities.
5. In general, the USARC facilities have been highly modified and developed. The great majority consist of lawn, parking lot and buildings, and have no natural environmental conditions or suitable habitat for species of concern.

References

1. Gleason, H. A. 1952. *The New Britton and Brown illustrated flora of the northeastern United States and adjacent Canada*. 3 volumes. Hafner Press, New York.
2. Pennsylvania Natural Diversity Inventory. 1995. *The Nature Conservancy, Western Pennsylvania Conservancy, and Pennsylvania Department of Environmental Resources*, Harrisburg.
3. Rhoads, A. F. and W. M. Klein, Jr. 1993. *The vascular flora of Pennsylvania: annotated checklist and atlas*. American Philosophical Society, Philadelphia.

Cooperative Agreement Between The Department Of Defense (DoD) And The Nature Conservancy (TNC)

Preface

1. This agreement establishes a policy of cooperation and coordination between the DoD and TNC to identify, document and maintain biological diversity on Defense Installations.
2. The DoD has a long history of commitment of protection of the environment and the natural resources which have been entrusted to its care, while at the same time accomplishing its mission of national defense.
3. TNC's primary interest is biological diversity. Its goal is to identify, protect and maintain endangered species and the best examples of communities and ecosystems. TNC is the only organization in the nation continually collecting and managing data on these elements of diversity, and it is responsible for establishing a nation wide network of natural heritage programs in state government.
4. Therefore, the DoD and TNC agree to cooperate to locate and evaluated DoD lands that have a great natural value.

Purpose

The purpose of this cooperative agreement is to establish procedures for planning and conducting cooperative efforts by TNC and DoD on DoD lands. It also establishes policies and agreements for TNC to provide technical assistance to DoD.

Responsibilities

IT IS AGREED THAT

A. The Nature Conservancy Will:

Under the terms of separately funded Subagreements to this Cooperative Agreement, undertake such tasks as are enumerated here:

1. Provide as requested to the DoD or its individual installations, information and technical assistance for areas on DoD lands that have high natural values, such as pristine natural areas; areas of exceptional ecological importance; locations of rare or unusual plant or animal communities; and habitats of federally listed endangered, threatened, proposed, and candidate species and state listed species.
2. Locate, inventory, evaluate, provide management and monitoring recommendations for, prepare National Natural Landmark nominations for, review natural resource management plans for, and monitor the conditions of these DoD lands with high natural values, when practical.
3. Provide assistance in identifying special management designation areas on DoD installations relative to the protection of biological diversity.
4. Provide information and advice on the potential methods of managing specially designated areas based upon experience on TNC owned and managed reserves.
5. Provide information as available to support interpretation, evaluation and monitoring of biological diversity on DoD lands.
6. Identify at an early stage in the planning process DoD lands for which research by TNC is proposed, the nature and extent of such research, and a TNC representative who will serve as liaison for the proposed study.
7. Involve DoD representatives as early as practicable in the planning stages for any proposed research at DoD installations.
8. Provide to DoD, to the extent practical, a copy of all data collected.

The Department Of Defense Will:

Under the terms of separately funded Subagreements to this Cooperative Agreement, undertake such tasks as are enumerated here:

1. Make available to TNC and the Heritage Programs, to the extent practical, information of rare species and biotic community occurrences on DoD lands.
2. Coordinate with TNC development of automated data bases related to biological diversity, including geographical information systems, where practical.
3. Consider TNC biotic inventory and information management methodologies for possible incorporation in developing DoD natural resource inventory and monitoring approaches and guidelines.
4. Provide access to DoD lands for studies and analysis of existing ecosystems in mutually agreed upon areas, when compatible with the military mission.
5. Identify a DoD representative to serve as liaison for each proposed field study.
6. Cooperate and coordinate with TNC to expedite decisions associated with proposed studies on DoD lands.
7. Fully consider all TNC proposals and, when necessary, develop mutually agreed upon alternatives to the proposal.
8. Compensate TNC for their assistance, as mutually agreed upon.

Both The Department Of Defense And The Nature Conservancy Agree That:

1. The implementation of this Cooperative Agreement is subject to required funds being available to both parties of the Agreement
2. Nothing herein contained shall be construed as limiting or affecting in any way the designated authority of the DoD.

Study Authorization

TNC activities on DoD lands will require a study authorization which should address, but not be limited to, the following:

1. Identification of DoD lands required for the study.
2. Duties and responsibilities of each party in the planning process.
3. Procedures for resolving issues, misunderstandings or disputes.
4. Identification of access or other authorizations which may be needed within the scope of this study.
5. Provisions for a research proposal explaining the purpose, scope and means of the study, including field methods, timing of field work, statistical analysis procedure, and potential benefits to DoD and the installations where the research is to be carried out.
6. Procedures for cessation of TNC activities in the event of a national defense emergency.
7. Milestone schedule for completion of the study and associated funding requirements for implementation.
8. Identification of special land restrictions required to support the TNC proposal.

9. Final approval of each new research proposal by the installation commander.

Delegation

Authorized representatives of The Nature Conservancy and the Department of Defense may execute special use authorizations and enter into supplemental agreements within the scope of this document.

Modification And Termination

This agreement may be modified or amended upon request of either party and the concurrence of the other. The Agreement may be terminated with 60-day notice of either party.

Implementation

This agreement becomes effective when signed by both parties and shall remain in effect until modified or terminated

Signed by

The Deputy Assistant Secretary of Defense (Environment)
and
President, The Nature Conservancy

December, 1988



79th Army Reserve Command
N.A.S. Willow Grove
Willow Grove, Pennsylvania

Bloomsburg USAR Center
1469 Old Berwick Road
Bloomsburg, Pennsylvania
17815-3027

***Installation Restoration Program
Installation Action Plan***

1995

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SUMMARY

Status

The facility is not currently listed on any federal compliance docket.

Total Number of RMIS Sites

There are two (2) RMIS sites at the facility. Data for these sites are presented as DSERTS Reports (Appendix B) and RCS 1383 Exhibit 2 Reports (Appendix C).

Different Site Types

There are two different site types at the facility:

- 1) Building interior surfaces and (potentially) subsurface soils contaminated with industrial liquid wastes.
- 2) Perimeter portions of the property affected by surficial hazardous waste disposal and/or herbicide application.

Most Widespread Contaminants of Concern

The most widespread identified contaminant of concern at the subject site is POL. There have not, however, been thorough SI activities to determine the nature of all contaminants.

Media of Concern

Elevated levels of contamination are possible in the following media:

- 1) Surficial and subsurficial soils.
- 2) Building interior surfaces.

Completed REM/IRA/RA

None

Current IRP Phase

SI

Projected IRP Phase

PA (Site 01 OMS Service Pit Closure)

SI (Site 02 Fenceline Assessment)

INSTALLATION INFORMATION

Installation Locale

The Bloomsburg USAR Center is located at 1469 Old Berwick Road, Bloomsburg, Pennsylvania, 17815-3027.

Command Organization

Command of the facility is divided between the following organizations:

- 1) Real Property Ownership: the Fort Indiantown Gap Department of Public Works (FTIG DPW).
- 2) Regionalized BASOPS Support: the 79th Army Reserve Command (79th ARCOM).
- 3) Unit Command and Control: the 79th ARCOM.

Lead Executing IRP Agency

The United States Army Environmental Center (USAEC) has been the lead IRP agency for activities performed to date. The Baltimore District, U.S. Army Corps of Engineers (USACE) has been the execution support agency for 79th ARCOM IRP activities.

Regulator Participation

Regulatory agencies have not been involved to date. Coordination with the Pennsylvania Department of Environmental Resources (PADER) shall commence if the site enters the FS stage.

Regulatory Status

No current regulatory agency involvement.

Significant Changes to IRP from Previous Year

A PA for waste disposal along the facility fenceline was completed during FY 1994. This survey suggested a Focused Site Investigation is required due to stressed vegetation and visible soil staining.

CONTAMINATION ASSESSMENT

Studies to Date

The Baltimore District, United States Army Corps of Engineers (Baltimore District USACE), has managed the following contamination assessment project:

1) Fenceline Assessment - PA complete. Focused Site Investigation and possible remediation recommended.

Results of studies to date are presented as Relative Risk Site Assessment sheets (Appendix E).

SCHEDULE

Start date of IRP at installation

IRP Activities commenced in FY 1994.

Past phase completion milestones

A survey of past practices was performed under the direction of the U.S. Army Toxic and Hazardous Materials Agency (USATHAMA) in FY 1990 (Waste Site Characterization, Roy F. Weston, Inc., 10 August, 1990). Although the report is labeled an RI/FS, it functions as a facility PA only. There is no analytical data presented.

A Fenceline Survey (PA) managed by the Baltimore District USACE was completed during FY 1994. This survey indicated evidence of past waste disposal and fenceline security practices (i.e. using waste oils and/or herbicides for weed control) requiring a Focused Site Investigation and possible remediation.

Chart (See Appendix D)

CONCURRENCE

Signature of BASOPS ARCOM

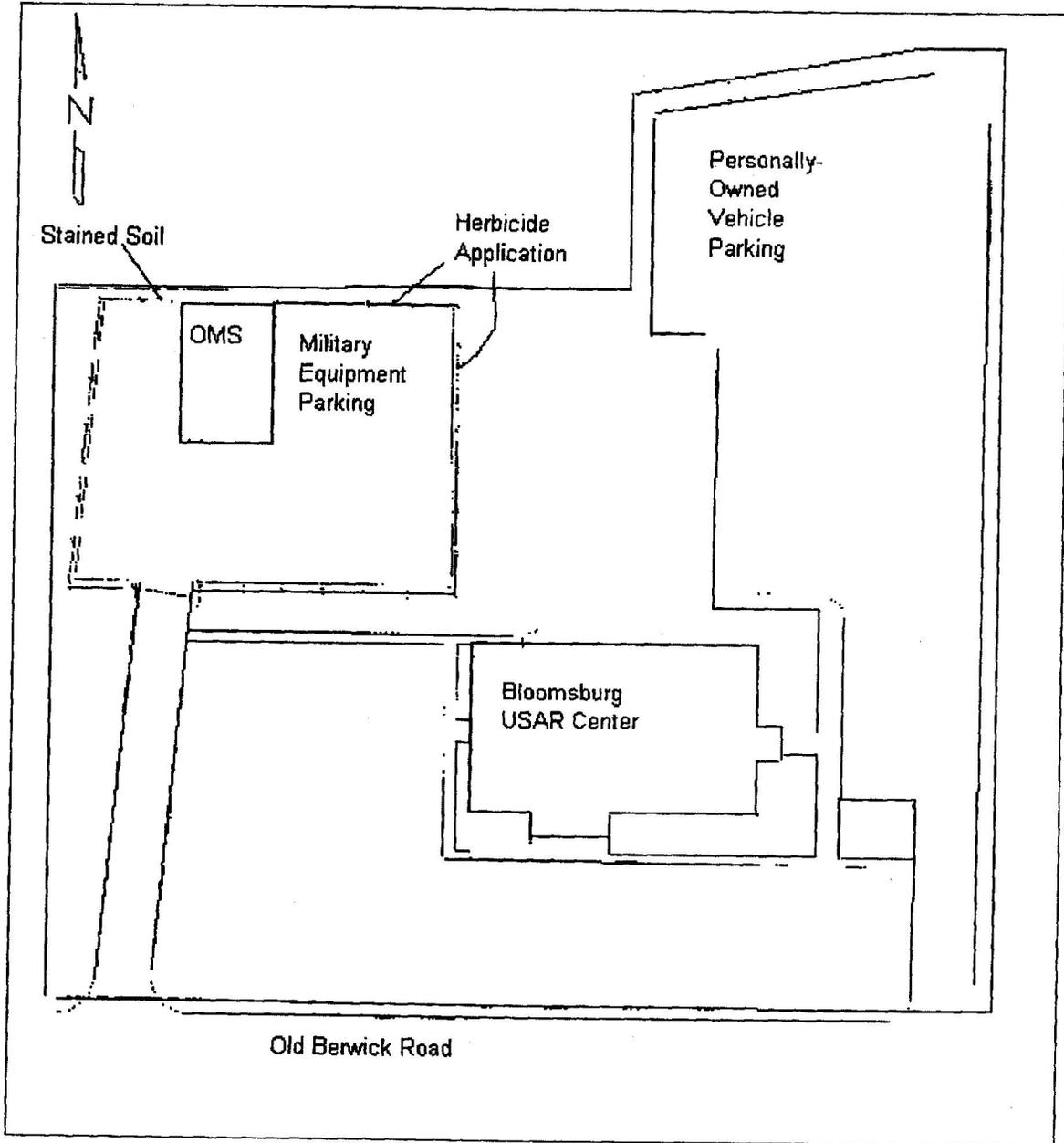


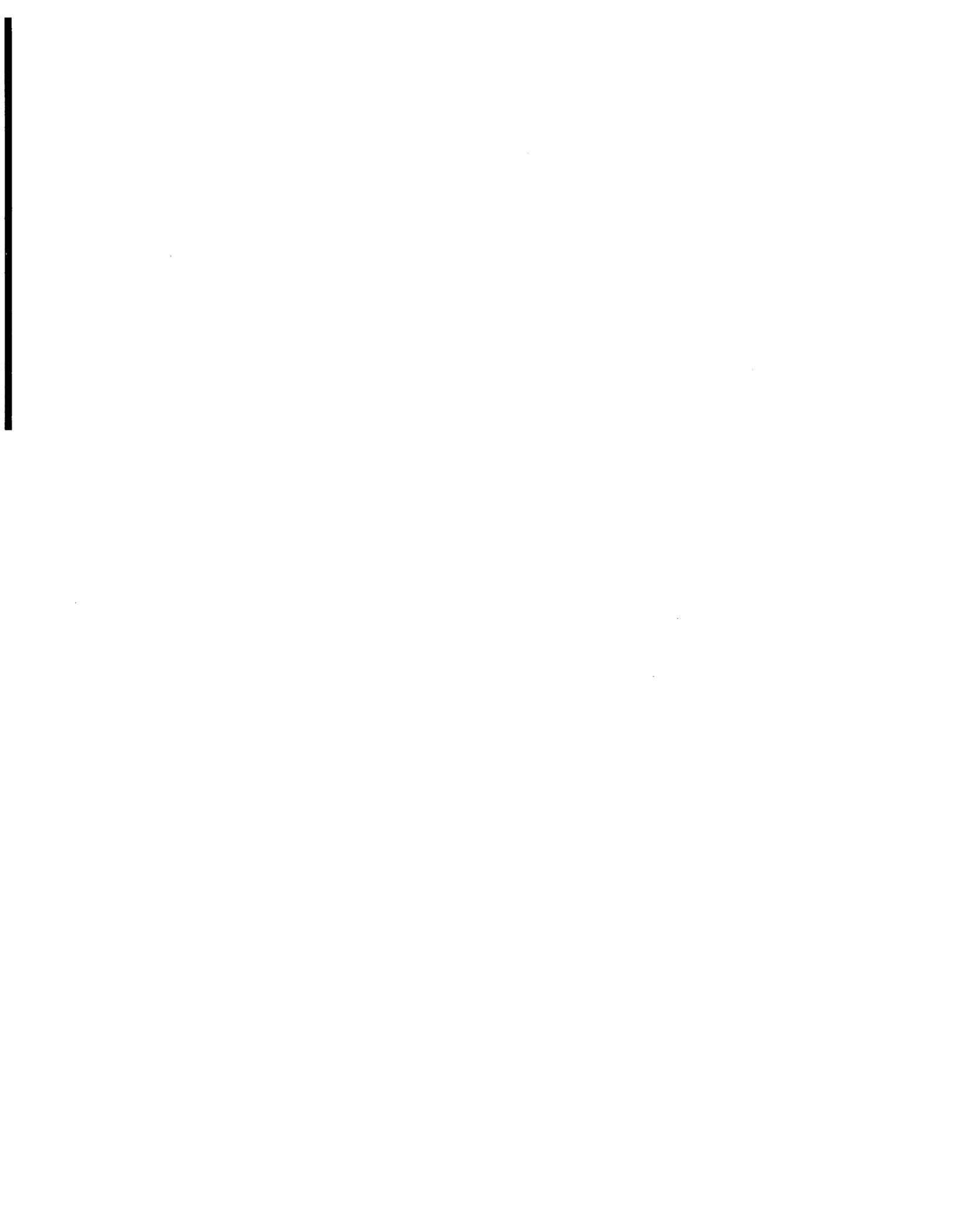
**Michael G. Pohronezny, Jr.
COL, EN, USAR
Deputy Chief of Staff, Engineer
79th ARCOM**

2/9/95
Date

APPENDIX A
Figures

Figure 2
Bloomsburg USAR Center







28 September 1995

Mr. Harry Blecker
DPW, Ft Indiantown Gap
ATTN: AFZS-FIG-PW-E
Annville, PA 17003

Reference: Contract No. DACA31-94-D-0025, **Environmental Compliance Assessment, Army Reserve (ECAAR), Follow-up Actions for the 79th ARCOM**

Dear Mr. Blecker:

Please find enclosed the following:

- One copy of the Hazardous Waste Management **Plan (HWMP) exemption letter** for AMSA 23 and ASF 28 at Willow Grove NAS JRB
- One copy each of the Stormwater Pollution Prevention **Plan (SPPP) exemption letters** for the following facilities:

CPT Sabalis Memorial USARC
SGT Paul Beck AFRC
Wilson Kramer USARC
Bloomsburg USARC
Bristol Veterans USARC
Frank M. Parker USARC
James W. Reese USARC
Edgemont USARC
Germantown USARC
Adams County Memorial USARC
Horsham Memorial USARC
Lancaster USARC
Lewisburg USARC
Mifflin County USARC
Ray S. Musselman USARC
Philadelphia Memorial AFRC
Robert E. Roeder USARC
CSM S.P. Serrenti Memorial USARC
Centre County Memorial USARC
Lenkalis USARC
Wilkes-Barre USARC

Lycoming Memorial USARC
North Penn USARC

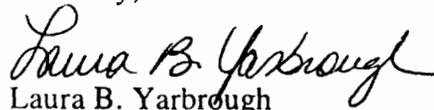
- One copy each of the Installation Spill Prevention, Control, and Countermeasures Plan (ISPCCP) exemption letters for the following facilities:

CPT Sabalis Memorial USARC
SGT Paul Beck AFRC
Wilson Kramer USARC
~~Bloomburg~~ USARC
Bristol Veterans USARC
Frank M. Parker USARC
James W. Reese USARC
Germantown USARC
Adams County Memorial USARC
Horsham Memorial USARC
Mifflin County USARC
Ray S. Musselman USARC
Robert E. Roeder USARC
CSM S.P. Serrenti Memorial USARC
Centre County Memorial USARC
Lenkalis USARC
Wilkes-Barre USARC
Aviation Support Facility #28
North Penn USARC

- A master disk copy containing all required plans in Word Perfect version 5.1 for all Pennsylvania facilities.

Please give Mr. Christopher Evans a call at the Corps of Engineers - Baltimore District, (410) 962-0157 if you have any questions. Thank you.

Sincerely,


Laura B. Yarbrough
Project Manager

cc: Christopher Evans, CENAB-EN-HM
F:\6078723\SUB24\FTIG.LET

FINAL

Hazardous Waste Management Plan (HWMP)

**79th ARCOM
Bloomsburg USARC
Bloomsburg, PA**

Prepared For:

Department of the Army
Baltimore District, U.S. Army Corps of Engineers
P.O. Box 1715
Baltimore, MD 21203-1715

Prepared By:

EA Engineering, Science, and Technology
11019 McCormick Road
Hunt Valley, MD 21031

July 1995

CERTIFICATION

I hereby certify that I have reviewed reports and plans and discussed the report preparation with experienced environmental personnel, and being familiar with the provisions of 40 CFR Part 262-299, and the Commonwealth of Pennsylvania HW Regulations Title 25 PADEP 262-265, attest that this HWMP has been prepared in accordance with good engineering practices.

ENGINEER: David Santoro

SIGNATURE: *David Santoro*

REGISTRATION:

STATE: Pennsylvania

DATE: July 1995



BLOOMSBURG USARC
Emergency Reporting and Information Numbers

EMERGENCY REPORTING
(Fires, Explosions, Major Releases or Spills)

Local Fire Department (717) 784-7911

INSTALLATION RELEASE REPORTING

Facility Manager	Mr. Charles Carpenter	(717) 784-4746/5556
Environmental Manager, 79th ARCOM	Mr. Steve Costello	(215) 443-1795
	Beeper	(215) 305-0326
Environmental Coordinator, USAR FTIG	Mr. Harry Blecker	(717) 861-2634
Officer-in-Charge	Cpt. Richard Shellenberger	(717) 271-6129
National Response Center		(800) 424-8802

CHEMICAL EMERGENCY INFORMATION AND ASSISTANCE

CHEMTREC (800) 424-9300

ADDITIONAL INFORMATION

DRMO Tobyhanna:	Mr. Jim Graham	(717) 895-6078
EPA RCRA/Superfund/EPCRA Hotline		(800) 424-9346
EPA Hazardous Waste Ombudsman Program		(800) 262-7937
EPA Region III - Federal Facilities Coordinator		(215) 597-1269
State Hazardous Waste Regulatory Authority		(717) 787-6239

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LIST OF ACRONYMS

AMP	Asbestos Management Plan
ARCOM	Army Reserve Command
CFR	Code of Federal Regulations
DoD	Department of Defense
DOT	Department of Transportation
DRMO	Defense Reutilization and Marketing Office
DRMS	Defense Reutilization and Marketing Service
EC	Environmental Coordinator
ECAAR	Environmental Compliance Assessment Army Reserve
EM	Environmental Manager
EPA	Environmental Protection Agency
EPCRA	Emergency Planning and Community Right to Know Act
FFCA	Federal Facilities Compliance Act
FM	Facility Manager
FTIG	Fort Indiantown Gap
HW	Hazardous Waste
HWMP	Hazardous Waste Management Plan
ISPCCP	Installation Spill Prevention, Control, and Countermeasures Plan
MSDS	Material Safety Data Sheets
OIC	Officer-in-Charge
OSHA	Occupation Safety and Health Administration
pCi	picocuries
RCRA	Resource Conservation and Recovery Act
SOP	Standard Operating Procedures
SQG	Small Quantity Generator
USARC	United States Army Reserve Command

1. INTRODUCTION

1.1 BACKGROUND

1.1.1 Objective

The United States Army is committed to the proper management of hazardous waste (HW) generated on Army installations. The primary objective of this Hazardous Waste Management Plan (HWMP) is to give Bloomsburg USARC the guidance and essential tools for effective HW management from the point of generation to disposal.

1.1.2 Regulatory Background

On 19 May 1980, the U.S. Environmental Protection Agency (EPA) published the Hazardous Waste Management System Rules. Subtitle C of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act of 1976 (RCRA), directed the EPA to promulgate regulations to protect human health and the environment from the improper management of HW. The effective date of these regulations was 19 November 1980, with amendments requiring increased management of HW by all installations, added in 1984.

The Commonwealth of Pennsylvania, through the Pennsylvania Department of Environmental Protection (PADEP), has developed a HW management program that has been approved by EPA for the enforcement of RCRA requirements in the Commonwealth. The Federal Facilities Compliance Act (FFCA) of 1992 requires Department of Defense (DoD) facilities to comply with all federal, state, and local environmental regulations in the same manner as private facilities. The FFCA allows federal and state agencies to assess DoD facilities with RCRA violation and fines. Army Regulation (AR) 200-1 provides guidance for managing hazardous waste at Army installations to meet federal, state, DoD, Army, and local environmental, worker safety, and transportation requirements. The procedures of this HWMP provide the necessary compliance with AR 200-1. Plan revisions shall reflect changes in all HW management laws and regulations. Each revision to this HWMP will become effective immediately upon distribution unless otherwise noted herein. See Appendix A for a complete list of federal, state, and local regulations pertaining to the Plan.

1.2 HAZARDOUS WASTE LIFE-CYCLE

Hazardous waste is any waste by-product that can pose a substantial or potential hazard to human health or the environment when improperly managed; possesses at least one of the following characteristics (toxic, corrosive, ignitable, explosive, or chemically reactive); or is listed in the Code of Federal Regulations, Part 40, Section 261.3 or applicable state or local waste management regulations.

This Plan follows an EPA "cradle-to-grave" philosophy for HW management and control. To better understand the "cradle-to-grave" philosophy, a breakdown of the hazardous waste life-cycle process is displayed in Figure 1-1 and described in the following:

The hazardous waste life-cycle process can be described as consisting of three phases:

1. Generation
2. Storage
3. Disposal

Seven process steps are used to manage HW as it passes through each life-cycle phase:

1. Characterization
2. Container/Tank Management
3. Generator Classification
4. Accumulation Management
5. Turn-in
6. Transportation
7. Disposal

Understanding the hazardous waste life-cycle and properly performing each process step will facilitate proper HW management. Serious environmental impacts may result from deficient or insufficient HW management. Legal ramifications are specified by numerous regulations and legislation, and can result in criminal and civil penalties. Environmental impacts from HW mismanagement extend beyond the individual to potentially affect the environment and human health.

1.3 OVERVIEW OF THE ARMY'S HAZARDOUS WASTE PROGRAM

The primary objectives of the Army's Hazardous Waste Management Program are as follows:

- Comply with all applicable HW regulations;
- Ensure that all installations have HWMPs in place and that such plans are suited for

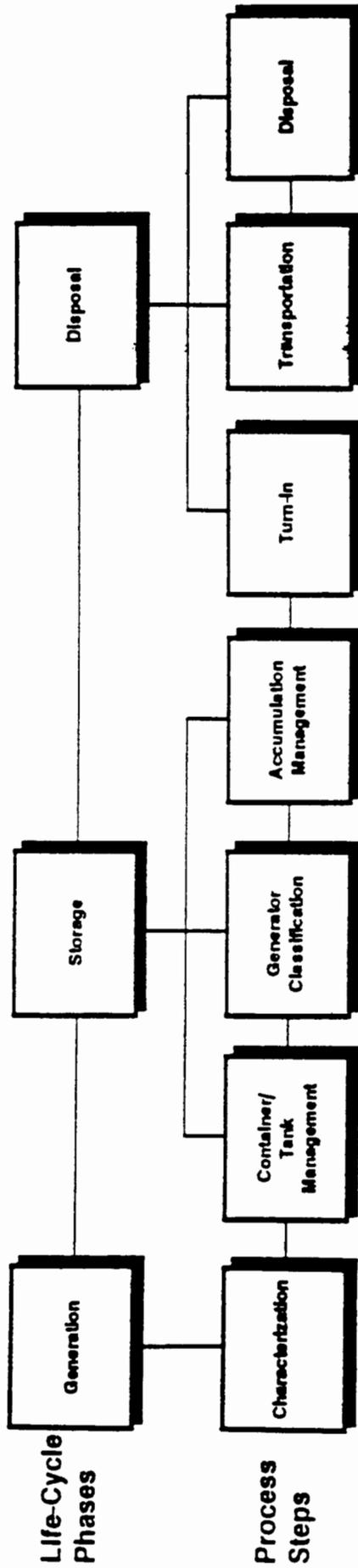


Figure 1-1. Hazardous waste life-cycle phases and process steps.

the individual installation;

- Dispose of pesticides, hazardous chemicals, medical supplies, radioactive materials, or explosive ordinance so as not to cause harm to public health or the environment;
- Comply with regulations on ocean dumping of wastes;
- Seek guidance for acceptable methods of discharge/disposal;
- Correct regulatory violations within the time allotted by the regulators;
- Provide hazardous waste management training to applicable personnel; and
- Minimize land disposal of wastes.

1.4 FACILITY DESCRIPTION

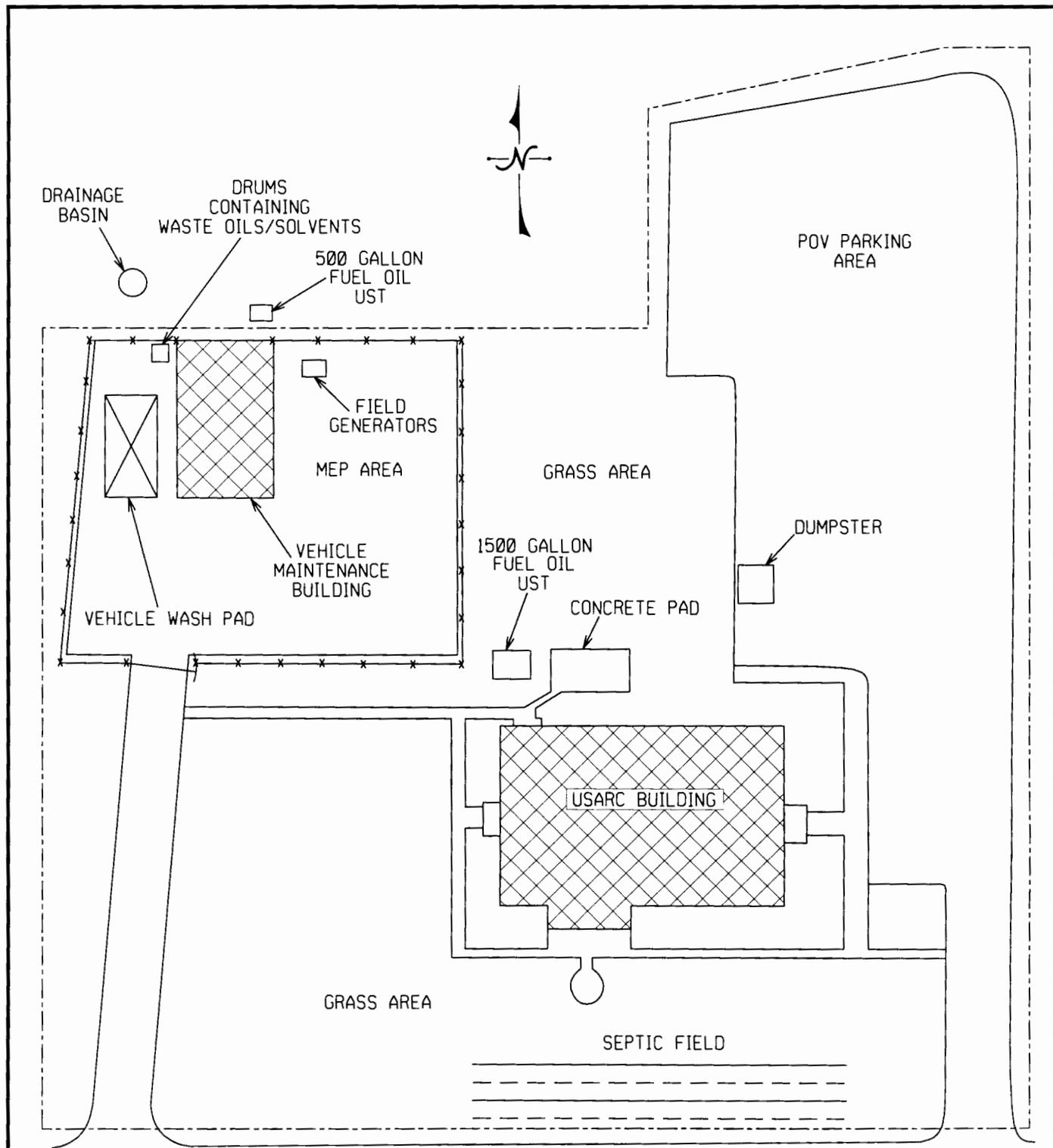
The Bloomsburg USARC is located at 1469 Old Berwick Road in Bloomsburg, PA. The installation occupies approximately 2 acres of land and was built in 1956. A site map of the installation is shown in Figure 1-2. The installation supports the 814th Quarter Master (QM) Company whose primary function is to supply parts (Class 9 parts except aircraft parts) and equipment to field units.

The facility consists of a main building and a vehicle maintenance building. The real property owner and supporting installation is Fort Indiantown Gap located in Annville, PA. The facility supports 5 full time personnel, 180 Reservists, and has approximately 20 vehicles assigned to the reserve center.

1.5 HAZARDOUS WASTE GENERATOR STATUS

Bloomsburg USARC is designated as a Small Quantity Generator (SQG) per Commonwealth of Pennsylvania Hazardous Waste Regulations Title 25 PADEP 261.5. A SQG is defined by PADEP as a generator who generates less than 1,000 kg of HW per calendar month. Additionally, waste considered "acutely" hazardous is regulated at 1 kg per month for commercial chemical products and manufacturing chemical intermediates and at 100 kg per month for any residue or contaminated soil, water, or other debris resulting from the cleanup of a spill. The Bloomsburg USARC EPA generator number is PA 4210522674.

If Bloomsburg USARC begins to regularly generate greater than 1000 kg per calendar month of HW, the OIC should contact the PADEP to determine the impact, if any, on the current facilities' SQG status. In the event that a change in the generator status is required, appropriate revisions should be made to this Plan to maintain compliance with Federal and PA HW regulations.



OLD BERWICK ROAD

NOTE: DRAWING IS NOT TO SCALE

FIGURE 1-2. BLOOMSBURG USARC SITE MAP, BLOOMSBURG, PA

2. RESPONSIBILITIES

Personnel who generate, accumulate, monitor, dispose of HW, or respond to incidents involving HW, are responsible for complying with this HWMP. Installation compliance with federal, state, and local HW laws and regulations is the responsibility of the Officer-in-Charge (OIC). Organizations tasked under this Plan include, but are not limited to, the organizations listed in Section 2.1

2.1 OFFICER-IN-CHARGE (OIC)

The Bloomsburg USARC has a senior ranking reserve officer that is the OIC for the facility. The OIC has overall responsibility for managing the HWMP. The OIC acts as the installation liaison on environmental compliance matters with regulatory agencies on all HW issues. The OIC is also responsible for the following:

- Maintaining responsibility for hazardous waste management for all installation activities including tenants;
- Reviewing and coordinating the HWMP;
- Reviewing summary data on waste generation and personnel exposure;
- Ensuring HW is properly disposed;
- Annually reviewing waste inventory to comply with hazardous waste regulations;
- Ensuring that all employees are thoroughly familiar with proper waste handling and emergency procedures relevant to their responsibilities;
- Ensuring the FM has sufficient support to carry out his/her function;
- Meeting with the FM on at least an annual basis to review hazardous waste management procedures;
- Ensuring that there is a payment system in place for hazardous waste disposal costs; and
- Notifying the Environmental Manager (EM) immediately of a notice of violation (NOV).

2.2 ENVIRONMENTAL MANAGER (EM)

The Environmental Manager is located at the Naval Air Station (NAS) Willow Grove, PA. The EM serves in this capacity for all 79th ARCOM Army Reserve installations and is responsible for:

- Providing oversight to ensure proper container management;
- Negotiating HW disposal contract with Defense Reutilization and Marketing Office (DRMO) and securing funding for HW disposal; and
- Submitting Forms 1348-1 and 1930 to DRMO and making disposal arrangements.

The Environmental Manager assists the FM with the following duties on an as needed basis:

- Coordinating waste samples collection and analysis;
- Determining if waste is hazardous from sample results;
- Completing DRMS Form 1930; and
- Observing contractor HW pick-up.

2.3 FACILITY MANAGER (FM)

Since the OIC is a Reservist and not able to oversee the execution of the HWMP on a full-time basis, the FM will handle the day-to-day responsibility for ensuring that the HWMP is executed. These responsibilities include:

Agency Coordination

- Coordinating with federal, state, county, and local authorities on HW management procedures;
- Providing all applicable records and preparing and submitting annual reports to EPA and PADEP;
- Acting as the liaison with HQ 79th ARCOM, EPA, PADEP, and other regulatory agencies in regard to HW inspections, environmental compliance matters, rule interpretation, and problem resolution.

Hazardous Waste Turn-in Operations

- HW identification, management, minimization, recycling, storage, and disposal;
- Certifying that HW is properly characterized, labeled, and packaged;
- Providing technical information on completion of HW turn-in documents;
- Completing Forms 1348-1 and 1930 for HW prior to turn-in; and
- Ensuring that HW generated from the installation is weighed for all disposal actions in the presence of an authorized DoD representative.

Routine Inspections/Compliance Operations

- Performing HW management compliance surveys of the installation;
- Inspecting and, if necessary, having the HW sampled and analyzed before accepting for storage/transport; and
- Taking remedial action as required.

Documentation and Recordkeeping

- Signing HW manifests, as designated by the OIC, and preparing HW reports and compliance documentation as required by EPA, PADEP, and Army instructions;
- Maintaining records for HW management surveys of the installation.

Hazardous Waste Sampling

- Ensuring collection (or oversees in collection of) samples for HW determination in accordance with the sampling and analytical requirements specified in EPA Document SW-846;
- Forwarding analytical results to appropriate generating activity; and
- Assisting in interpretation of analytical results and preparing the Defense Reutilization and Marketing Service (DRMS) Form 1930.

Safety and Health Related Responsibilities

- Receiving and reviewing hazardous Material Safety Data Sheets (MSDS); and
- Participating in HW training programs and exercises.

Other Responsibilities

- Preparing, reviewing, and annually updating the HWMP, as required;
- Preparing and applying for HW permits;
- Supervising HW management training, if required; and
- Requesting funds from the Accounting and Finance Officer, certifying fund availability for waste turned in to the DRMO, reviewing billings for accuracy, and requesting adjustments when necessary.

2.4 DEFENSE REUTILIZATION AND MARKETING OFFICE (DRMO)

The DRMO in Tobyhanna, PA administers contracts for HW disposal service at the Bloomsburg USARC. DRMO inspects HW disposal turn-in documents to ensure that all required disposal information is provided, including but not limited to proper HW characterization. DRMO initiates and monitors compliance with HW disposal contracts and maintains HW disposal documentation. Specifically, DRMO is responsible for the following:

- Receiving and reviewing paperwork for hazardous property and waste from the installation;
- Arranging for transportation and disposal of hazardous property by reutilization, resale, or service contract; and
- Providing on-site verification of waste labeling and packaging during pick up by contractor.

2.5 ALL ASSIGNED INDIVIDUALS

Each individual assigned, attached to, or working at Bloomsburg USARC is tasked to report any spill of oil or hazardous substance to the FM and to take every reasonable precaution to prevent spills of oil or hazardous substances. In addition, all contractors performing services on-base will be notified prior to the initiation of the contract to take every reasonable precaution to prevent spills of oil or hazardous substances and to report any spills of this nature to the FM.

3. WASTE STREAM INVENTORY

3.1 PRESENT STATUS OF WASTE STREAM INVENTORY

Bloomsburg USARC is required to maintain an inventory of the generation of hazardous waste streams. A hazardous waste stream inventory is a tracking system which includes a hazardous waste inventory sheet (i.e., accumulation logs) posted in the accumulation area(s) and hazardous waste manifests kept on file for a period of three years. Because Bloomsburg USARC does not service or maintain its vehicles onsite, the amount and types of hazardous waste generated is minimal.

At the present time, DRMS is seeking qualified contractors to pick up, remove, transport, and dispose of miscellaneous hazardous items located at DRMO Tobyhanna and surrounding USARCs including Bloomsburg USARC. The miscellaneous hazardous items include expired paint products, aerosol cans, batteries, etc.

Table 3-1 is an inventory of all routinely generated hazardous waste streams at the installation, average quantity disposed, disposal container used, and method typically used to remove each waste stream from the installation.

TABLE 3-1 HAZARDOUS WASTE STREAM INVENTORY

Waste Stream Location (Shop/Bldg)	Waste Stream*	Estimated Disposal Quantity	Disposal Container	Disposal Method
Outside Vehicle Maintenance Building	Waste Oil	25 gal/yr	55 gallon drum	Transport to AMSA 32
	Spent antifreeze	25 gal/yr	55 gallon drum	

- * These waste streams are not expected to be future waste streams at Bloomsburg USARC, since all vehicle maintenance is handled at Wilkes-Barre AMSA 32.

3.2 HAZARDOUS WASTE LOCATIONS

Figure 1-2 shows the area where the two drums containing waste oil and spent antifreeze were kept. Bloomsburg USARC does not have a designated hazardous waste storage area because Bloomsburg USARC does not anticipate future hazardous waste streams.

3.3 HAZARDOUS WASTE ACCUMULATION AREAS

As defined by 25 PA Code Subchapter C, when a SQG accumulates HW in excess of 1,000 kg/month, a 90-day accumulation time period begins. During this 90-day time period, a SQG can accumulate HW on-site without a permit, provided that the generator complies with the requirements of Chapter 265, Subchapters C and D (relating to preparedness and prevention; contingency plan, and emergency procedures) and provides personnel training as stipulated in 40 CFR 265.16, and the HW is:

- Shipped off-site or treated or disposed on-site within 90 days or less;
- Placed in a container which meets the United States Department of Transportation packaging, marking, and labeling requirements in 262.30 and 262.33, including the date of initial accumulation, or in tanks provided that the generator complies with the requirements of Chapter 265, Subchapter J; and
- Managed in accordance with Chapter 265, Subchapter I.

Although Pennsylvania Hazardous Waste Regulations do not stipulate an accumulation time period prior to meeting the 1,000 kg/month threshold level, as a best management practice it is recommended that the Bloomsburg USARC follows the accumulation time period of 180 days as specified in 40 CFR 262.34(d).

4. WASTE ANALYSIS

Waste identification and description is important to help ensure that all parties involved with the generation, transport, treatment, storage, and disposal of hazardous waste have sufficient information about the properties of the waste. The base is required to have a plan in place for determining if generated waste is hazardous.

4.1 WASTE IDENTIFICATION

Waste identification is a process in which newly generated wastes are evaluated to determine whether the waste should be categorized as hazardous or non-hazardous waste. Waste identification is conducted by using the waste generator's knowledge or by analytical testing. Either way of evaluating the waste should be based on EPA solid waste and HW definitions (40 CFR 261.2 and 40 CFR 262.3) and EPA Document SW-846.

The following criteria can be used to determine if a waste is hazardous and if the waste requires further characterization/sample analysis:

1. Is it a waste?

If the answer to **ANY** of the following four questions is yes then the material is a waste.

- a. Is the material no longer useful for its intended purpose because it is dirty, out of specification, or a spill residue?
- b. Is it an unintended or unusable by-product?
- c. Does the installation intend to discard the material for eventual treatment, storage, recycling, or disposal?
- d. Is it produced by cleanup at a previously uncontrolled waste site?

2. Is it a solid waste?

A solid waste is generally defined as any discarded material (including solids, liquids, and containerized gases) which is abandoned, recycled, or considered inherently waste-like.

3. Is it a hazardous waste?

If the material is a solid waste, the solid waste must be evaluated to determine if it is a HW. A material is a HW if it has not been excluded from regulation and is a characteristic HW (e.g., ignitable, corrosive, reactive, or toxic), a listed HW, or a mixture of a listed HW and solid waste.

The FM will identify and separately document wastes which are classified as non-hazardous due to the following:

- subject to solid or hazardous waste exclusions (40 CFR 261.4)
- recycled, not subject to the generator waste determination requirements of 40 CFR 262.11
- land disposal restricted waste that is excluded from the definition of solid or hazardous waste or exempt from Subtitle C regulations under 40 CFR 261.2-261.6 subsequent to the point of generation

The hazardous waste generating activity at an area generating an excluded, exempt, or recycled waste will place a one-time notice which identifies the waste generated, the appropriate exclusion from HW regulations, and the disposition of the waste, in the generating activity's waste management file. A copy of the document will be maintained on-site for at least three years from the date the waste was last sent to an on-site or off-site treatment, storage, or disposal facility.

4.2 WASTE DESCRIPTION

When waste must be disposed, the FM contacts the EM who may assist in determining if the waste is hazardous. If analytical testing is necessary to determine if a waste is hazardous, then the FM will coordinate the sample collection and analysis with an outside laboratory. The sampling and analysis shall be conducted in accordance with 40 CFR 260 and 261 and 25 PA Code 261.

Analytical characterization is required for waste streams which are chemical mixtures. However, testing is not normally required for waste unused commercial cleaning products or laboratory chemicals in their original, marked containers.

The FM, with assistance as required from the EM, is responsible for interpreting analytical results. Utilizing the analytical results, and/or based on knowledge of the process and materials used, the FM evaluates the data to determine if the material is a HW. The FM should interpret the results and retain a file copy of the data. The FM maintains the copy in an active file at the installation for three years. After three years files may be pulled and archived. The FM will mark the test results, and the containers associated with the material, as "HAZARDOUS WASTE" or "NON-HAZARDOUS WASTE" after making the determination. The analytical results are used to complete the DRMS Form 1930.

4.3 HAZARDOUS WASTE PROFILE SHEET (DRMS Form 1930))

Analytical results and/or user knowledge are used by the FM to complete a comprehensive waste stream description which is recorded on the DRMS Form 1930. Analytical results from waste evaluation activities should be attached to the Hazardous Waste Profile Sheet. Refer to Appendix B for a sample DRMS Form 1930 and instructions for completing the form.

5. HAZARDOUS WASTE MANAGEMENT PROCEDURES

5.1 HAZARDOUS WASTE CONTAINERS

Waste is to be stored and/or accumulated in containers that are compatible with the waste, in undamaged containers, and clearly labeled.

5.1.1 Container Selection

Although the contractor is ultimately responsible for proper packaging and labeling per DOT requirements prior to shipping, adhering to the DOT pre-transport regulations (49 CFR 172 and 173) can eliminate potential hazards associated with the improper handling and containment of hazardous materials (leaking, incompatible wastes, etc.).

5.1.2 Container Labeling and Marking

The generator is responsible for properly labeling drums and other storage containers while stored on site. The disposal contractor is responsible for labeling and packing to meet DOT shipping specifications.

5.1.2.1 Waste Accumulation

During waste accumulation, the side of each container of HW shall be labeled with the following:

1. **"HAZARDOUS WASTE"** written in 1 inch high lettering.
2. **COMMON NAME** of the HW being stored in the container (e.g., waste oil, spent hydraulic fluid, spent antifreeze, etc.).
3. **HAZARD** associated with the HW (e.g., ignitable, toxic, flammable, etc.).
4. **EPA IDENTIFICATION NUMBER** - PA 4210522674 for Bloomsburg USARC
5. **DATE** that accumulation began.

5.1.3 Container Condition

The generator is responsible for maintaining storage containers in good condition. If a container of HW is not in good condition (e.g., severe rusting, apparent structural defects, leaking), then the HW must be transferred into a container in good condition, or managed in some other way that complies with the requirements of 25 PA Code 265 Subchapter I, and 40 CFR 265 Subpart I.

5.1.4 Container Compatibility

HW shall be stored in a container made of or lined with materials which will not chemically react with and are compatible with the HW stored in the drum. Ignitable and reactive wastes will be protected from sources of ignition or reaction. Waste materials will not be mixed prior to disposal.

5.1.5 Container Management

1. A container holding HW shall always be closed during storage, except when waste is being added.
2. Containers must not be stored or handled in a manner which may cause them to rupture or leak. The following precautions should be taken to prevent container ruptures and leaks:
 - Containers must not be overfilled; fill to 90% of capacity only (for example, only fill a 55-gal drum to 50 gal). Liquids expand in containers as the temperature increases. A steel drum painted a dark color can easily rise to temperatures above 100°F and the pressure created by the expansion of the liquid causes bulging heads and damages the integrity of the container. Bulging containers create a safety hazard for personnel who add waste to or handle the containers.
 - Containers must be protected from freezing during cold weather. Many materials go through a freeze/thaw cycle during changing weather conditions. This freeze/thaw cycle may cause brittle fracture in a steel drum and can result in leaking containers.
 - Containers of ignitable HW must be grounded. Grounding will prevent build-up of static electricity which may create a spark capable of igniting flammable vapors. When transferring flammable liquids into containers, a bonding wire will be used to connect the two containers as a means of preventing sparks caused by the build-up of static electricity during pouring operations. Contact the local Fire Department for grounding and bonding instructions.

- Drums and other containers must be handled and transported with equipment designed for the task. Drum grappler attachments may be purchased to securely grab and move containers. Secure containers to pallets before moving pallets. Utilize drum carts designed for the types of containers being handled to reduce the likelihood of dropping a container during handling. Never balance drums on the forks of a forklift or tow motor.
- Use a funnel to fill closed head containers. This procedure will ensure that all waste is poured into the container and does not spill on the top of the container. If using a funnel without a locking top, the funnel should be removed and the container closed after filling. If the funnel has any HW residues remaining, the residues should be rinsed into the container or the funnel placed in a suitable closed HW accumulation container.
- Drums must not be stacked more than two high. Drums containing flammable liquids should not be stacked.
- Containers should be stored in an area which is away from or protected from damage due to the movement of vehicles such as trucks, fork lifts, cars, etc.

5.2 HAZARDOUS WASTE TURN-IN PROCEDURES

The following procedures must be followed when preparing waste for disposal. These procedures are in accordance with the 79th ARCOM's Standard Operating Procedures (SOP), Section XIV, Hazardous Waste Disposal. The installation will not handle, store, transport, dispose of, or inventory HW or hazardous materials generated off base and brought on base.

5.2.1 Known Substances

1. The FM shall notify the EM of the installation that the waste is ready for disposal.
2. The FM completes DRMS Form 1930. A separate DRMS Form 1930 is issued for each container of waste being turned into DRMO. If more than one container of the same waste is being turned in, then one 1930 will be issued for the group. Instructions for completing DRMS Form 1930 are in Appendix B. The FM submits the form to the EM, 79th ARCOM Engineering Office at NAS Willow Grove.
3. The FM shall prepare Form 1348-1 (Appendix B) and submit the form to the EM.
4. The EM forwards Form 1348-1 and DRMS Form 1930 to the EC and arranges for disposal.

5. A DRMO representative shall be present when contractor picks up waste.
6. The contractor labels and packs waste per DOT requirements.
7. FM, DRMO, and the contractor, shall jointly prepare the EPA Uniform Hazardous Waste Manifest, Form 8700-22 (See Appendix B).
8. Copies of manifests are kept on file for three years by the EM and the installation.

5.2.2 Unknown Substances

1. The FM notifies the EM of the presence of unknown waste potentially requiring disposal.
2. The FM coordinates sampling and analysis of unknown waste via a 4283-1 (work order request).
3. A sample of the waste stream shall be collected and analyzed by an outside lab.
4. The FM receives results and determines if waste is considered hazardous and completes DRMS Form 1930 with assistance from the EM
5. If the waste is hazardous, the containers and analytical data will be clearly marked as hazardous.
6. Form 1348-1 shall be completed by the FM.
7. A completed Form 1348-1 and DRMS Form 1930 shall be submitted to the 79th ARCOM Engineering Office, NAS Willow Grove.
8. The EM forwards Form 1348-1 and DRMS Form 1930 to the EC and arranges for disposal.
9. The contractor labels and packs waste per DOT requirements.
10. The FM, DRMO, and the contractor, prepare the manifest.

11. Analytical data is maintained with hazardous waste manifest for at least three years by the EM and the installation.

5.3 ON-SITE TRANSPORTATION

- The FM will ensure that HW handled at the installation is transported in a manner that will not endanger the health of installation personnel or the environment. The contractor must ensure that HW is transported in the DOT containers.
- The FM will ensure that containers are in good condition. Prior to transporting the HW, each container should be inspected by the FM and contractor to ensure that it is suitable for transportation. The container should have no leaks and no accumulation of liquid on the top head. Also, there should be no serious corrosion, dents, sharp creases, or bulging heads. If the container has a leak or if it is not in good condition, the waste in the drum must be transferred to a container in good condition or the container must be placed in an 85-gallon over-pack drum.

5.4 RECORDKEEPING AND REPORTING

RCRA requires the maintenance of certain records at the installation. The type of records, along with the retention time and a CFR reference which describes each record is presented in Table 5-1. The FM shall maintain or know the locations of the files identified in Table 5-1. These files shall be made available to appropriate federal and state inspectors upon request. However, it is recommended that the FM maintain copies of DRMS Form 1930, DOD Form 1348-1, HW manifests, delivery orders, and log books in an active file for a minimum of three years. After a period of three years or longer, file should be archived. The FM shall also maintain updated copies of the HWMP and the accompanying waste stream inventory.

**TABLE 5-1 RCRA RECORDS AND CORRESPONDING MINIMUM
RETENTION PERIODS**

Record or File	Retention Time	Citation
<i>Hazardous Waste Determination</i>	<i>3 years from the date that the waste was last sent to a treatment storage, or disposal facility*</i>	<i>40 CFR 262.11</i>
<i>Annual Report</i>	<i>3 years from the due date of the report*</i>	<i>40 CFR 262.41</i>
<i>Hazardous Waste Manifest</i>	<i>3 years from the day the waste was accepted by the initial transporter*</i>	<i>40 CFR 262.20</i>
<i>Accumulation Site Inspection Logs</i>	<i>3 years from the date the inspection was conducted*</i>	<i>40 CFR 262.34 40 CFR 265.174</i>
<i>Exception Reports</i>	<i>3 years from the due date of the report</i>	<i>40 CFR 262.42</i>
<i>Land Restricted Waste Determination</i>	<i>5 years from date the determination was required to be conducted. If not required, 5 years from the date the waste was last sent to a TSD facility*</i>	<i>40 CFR 268.7</i>
<i>Land Restriction Notice and Certification</i>	<i>5 years from the date the waste was last sent to a TSD facility*</i>	<i>40 CFR 268.7</i>
<i>Notification of Intent to Export Waste</i>	<i>3 years from the date the hazardous waste was accepted by the initial transporter*</i>	<i>40 CFR 262.54</i>
<i>Employee Training Records</i>	<i>Current personnel: until closure of facility</i> <i>Former personnel: 3 years from date the individual last worked at facility</i>	<i>40 CFR 262.34</i> <i>40 CFR 265.16</i>

* It is recommended that Bloomsburg USARC retain records beyond the time period required by RCRA. If any facilities that receive wastes generated by Bloomsburg USARC were to be listed on the National Priorities List as a Superfund site, disposal records would be important in order to show what wastes that were disposed of at the facility were and were not from Bloomsburg USARC.

5.4.1 Required Reports

Quarterly Report

As specified in 25 PA Code Subchapter D 262.41, a generator of HW who ships HW off-site to a treatment, storage, or disposal facility shall submit quarterly reports to PADEP on a form designated by the Department on or before the 20th day of April, July, October, and January for the three months ending the last day of March, June, September, and December, respectively. The form shall contain as a minimum the following information:

- The name, identification number, mailing address, and location of the generator.
- The name and telephone number of the generator's contact person.
- The identification number and hazardous waste transporter license number of each transporter.
- The name, identification number, and address of each HWM facility. For exported shipments, the report shall give the name and address of the foreign facility.
- The description, DOT hazard class and hazardous waste number of the hazardous waste.
- The amount and units of measure of each hazardous waste in a shipment.
- The manifest document number for each hazardous waste.
- Signature and certification of the generator's authorized representative.

Emergency Report

Releases of HW, hazardous substances, and hazardous materials into the environment in the Commonwealth of Pennsylvania must be immediately reported by the EM to the following agencies:

National Response Center	(800) 424-8802
Pennsylvania Department of Environmental Protection	(717) 787-4343
Pennsylvania Emergency Management Council	(717) 783-8150
Columbia County Emergency Management Agency	(717) 389-5720

Incident Report

In the event of a significant spill of hazardous waste, an incident report must be submitted by the EM within 15 days after the incident to PADEP at the following address:

PADEP
Bureau of Waste Management
1 Ararat Boulevard
Harrisburg, PA 17110
Attention: Frank Fair

Quarterly Report To The Commander

The installation shall report on a quarterly basis to HQ 79th ARCOM. The report should contain information regarding HW generation and minimization goals.

Other Reports

If requested by the EPA or other regulatory requirements, reports pursuant to 40 CFR 264 (or 265 as appropriate) Subparts F and K through N shall be submitted.

6. TRAINING

6.1 HAZARDOUS WASTE TRAINING REQUIREMENTS

Personnel handling hazardous wastes may be exposed to a variety of health and safety hazards. Proper training can minimize human exposure to these hazards and reduce the potential for injury. Proper training can also minimize the potential for adverse environmental impacts associated with mishandling of hazardous wastes.

Federal HW management regulations for small quantity generators state, "The generator must ensure that all employees are thoroughly familiar with proper waste handling and emergency procedures, relevant to their responsibilities during normal facility operations and emergencies."

6.1.1 Training Requirements for Personnel

Hazardous waste management training is recommended for environmental personnel, emergency response personnel for spills and HW incidents, and any other personnel who handle HW at the installation.

Personnel are required to receive hazardous waste training if they perform any of the following activities:

- determine which wastes are hazardous;
- prepare documentation such as manifests, annual or biennial reports, or exception reports;
- inspect hazardous waste accumulation, storage, treatment or disposal facilities;
- conduct any tasks involving occupational exposure to or which require management of hazardous waste; and
- supervise personnel performing hazardous waste activities.

It is the responsibility of the FM to identify, in coordination with all installation operating units, individuals that should be trained using the criteria listed above. The FM should maintain and annually update a master list of personnel that should be trained to reflect personnel turnover and changing hazardous waste management responsibilities.

6.1.2 Training Frequency

Initial and annual refresher hazardous waste training should be successfully completed by all personnel identified meeting any of the criteria described above. New personnel with assignments that meet any of the conditions stated above should successfully complete training prior to their assignment. Until that time, untrained personnel should not perform any tasks involving hazardous waste management unless they are directly supervised by trained personnel. Each person receiving hazardous waste training should take part in an annual review of the training program.

6.2 SCOPE OF TRAINING

6.2.1 Individuals Responsible for Providing Training

The FM function is responsible for conducting and ensuring hazardous waste training is accomplished. All personnel conducting hazardous waste training should receive training through the Army Hazardous Waste Training Program prior to training installation personnel.

6.2.2 Training Components

The major components of the HW training program include the following:

- how to perform duties in a way which ensures compliance with federal, state and local hazardous waste regulations;
- hazardous waste management procedures, including contingency plan implementation; and
- response to emergencies involving hazardous waste.

Each training session for installation personnel should include the following general topics to meet EPA, OSHA, and Army requirements:

- Introduction to the Resource Conservation and Recovery Act
- Hazardous Waste Characterization
- Container Management
- Hazardous Waste Accumulation Management
- Hazardous Waste Disposal

- Hazardous Waste Manifesting and Transportation
- Emergency Procedures and Prevention
- Personnel Safety and Training
- Waste Minimization
- Recordkeeping and Reporting Requirements

6.2.3 Recordkeeping

It is the responsibility of the FM to create, annually update, and maintain a master list of employees requiring initial and refresher training.

Training records which document that all appropriate personnel have successfully completed their recommended training should be maintained. Records must be kept for current employees as long as they work at the installation, and for three years after the date they leave the installation (or stop working at a position related to hazardous waste management). Training records may accompany personnel transferred to another installation, however, a copy of the record should be kept at Bloomsburg USARC for the three year period after their transfer.

It is the responsibility of the FM to maintain on file, a written job description for each position related to hazardous waste management. For the purposes of RCRA training record-keeping, the job description need only describe the job as it relates to the management and handling of hazardous waste. The description should also identify the requisite skills, education, or other qualifications and the duties of the facility personnel assigned to each position.

7. EMERGENCY RESPONSE

Hazardous waste incident reporting concerns will be conducted as follows:

- a. In the event of a fire, explosion, or major spill involving hazardous waste the incident witness must immediately contact the local Fire Department at (717) 784-7911.
- b. Any release involving hazardous waste or a hazardous substance spill/release must be reported to the Officer-in-Charge or Facility Manager.
- c. Reporting for any hazardous waste incident is **MANDATORY** and shall be performed by the Environmental Manager for the installation per Section 5.4.1.

The Emergency Reporting and Information Numbers should be placed in conspicuous locations such as bulletin boards.

APPENDIX A

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
PH	M	S	FSC	NIN	ADD	UNIT OF ISSUE	QUANTITY	SERV	REQUISITIONER	DATE	SERIAL	SUPPLY	SERV	SUPPLEMENTARY ADDRESS	SIGNAL	FUND	DISTRIB	PROJECT	PRI	ORIT	REQ'D DEL DATE	ADVISE	RI	UNIT PRICE	DOLLARS	CTS.																																																					
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F	SUBSTITUTE DATA (ITEM ORIGINALLY REQUESTED)	G	H	I	J	K	L	M	N	O	P	Q	R	S																																																																	
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S	SELECTED BY AND DATE	TYPE OF CONTAINERS(S)	TOTAL WEIGHT	RECEIVED BY AND DATE	INSPECTED BY AND DATE																																																																										
I	1	2	3	7	8																																																																										
D	PACKED BY AND DATE	NO. OF CONTAINERS	TOTAL CUBE	WAREHOUSED BY AND DATE	WAREHOUSE LOCATION																																																																										
S	4	5	6	9	10																																																																										
E	REMARKS	AA	BB	CC	DD	EE																																																																									
R	FIRST DESTINATION ADDRESS	DATE SHIPPED	12	FF	GG																																																																										
E	13 TRANSPORTATION CHARGEABLE TO	14 BLADING, AWB, OR RECEIVER'S SIGNATURE (AND DATE)	15 RECEIVER'S DOCUMENT NUMBER																																																																												

DD Form 1348-1 Disposal Turn-in Document

REFERENCES

BASOPS Regionalized Area of Support Standard Operating Procedures (SOP), Headquarters, 79th US Army Reserve Command, Naval Air Station, Willow Grove, Pennsylvania, 1 October 1993.

Battery Disposition and Disposal, TB 43-0134, 1 July 1993.

Commander's Guide to Environmental Management, US Army Environmental Center, Aberdeen Proving Ground, Maryland, May, 1993.

Environmental Compliance Assessment Army Reserve (ECAAR), Assessment Protocol Manual, US Army Construction Engineering Research Laboratories (USACERL), Champaign, Illinois, September 1992, Sections 4, 6, 13, 15, and 17.

Environmental Law for USAR Commanders, Headquarters, 79th US Army Reserve Command, Naval Air Station, Willow Grove, Pennsylvania, 15 November 1994.

Environmental Protection and Enhancement, Army Regulation 200-1, Chapter 6, 23 April 1990.

EPA SW-846, Test Methods for Evaluating Solid Waste: Physical/Chemical Methods; Third Edition; Volumes IA, IB, IC, and II.

25 Pennsylvania Code Parts 261 - 265.

40 Code of Federal Regulations Parts 260 - 299.

APPENDIX B

INSTRUCTIONS FOR COMPLETING DoD FORM 1348-1

Block/Position Number	Description of Item to Enter
C	"HW" for hazardous waste
8-11	Federal Stock Class number which produced the waste (See table below for sample Federal Stock Class designation).
15-18	EPA HW code or PA HW code
30-43	The 14-position document number which includes the 6-position DODACC for Base Supply, the 4-position date, and the 4-position serial number in Columns 30-43
51	"A"
52-53	Appropriate fund code
74-80	Unit acquisition cost
FF	The CLIN (Contract Line Item Number) (Contact Base Supply for the appropriate CLIN)
GG	Total cost of disposal (CLIN x unit cost)
12	The 6-position bill to DODAAC if other than Base Supply DODAAC (FB2857)
W	Signature of Facility Manager representative

COMMON FEDERAL STOCK CLASSES

9150	Petroleum, oils, lubricants
8010	Paints, waste paint related material
6350	Antifreeze, windshield washer fluid
6850	Solvents
5950	Transformers
9999	Spill residue

HAZARDOUS WASTE PROFILE SHEET - DRMS FORM 1930 (Con't)

TOXICITY CHARACTERISTICS LIST

EFFECTIVE 25 SEP 90 - LARGE QUANTITY GENERATORS
29 MAR 91 - SMALL QUANTITY GENERATORS

CONTAMINANT	EPA HW No.	(mg/L)	CONTAMINANT	EPA HW No.	(mg/L)
<input type="checkbox"/> ARSENIC	D004	_____	<input type="checkbox"/> HEXACHLORO-1,3-BUTADIENE	D033	_____
<input type="checkbox"/> BARIUM	D005	_____	<input type="checkbox"/> HEXACHLOROETHANE	D034	_____
<input type="checkbox"/> BENZENE	D018	_____	<input type="checkbox"/> LEAD	D008	_____
<input type="checkbox"/> CADMIUM	D006	_____	<input type="checkbox"/> LINDANE	D013	_____
<input type="checkbox"/> CARBON TETRACHLORIDE	D019	_____	<input type="checkbox"/> MERCURY	D009	_____
<input type="checkbox"/> CHLORDANE	D020	_____	<input type="checkbox"/> METHOXYCHLOR	D014	_____
<input type="checkbox"/> CHLOROBENZENE	D021	_____	<input type="checkbox"/> METHYL ETHYL KETONE	D035	_____
<input type="checkbox"/> CHLOROFORM	D022	_____	<input type="checkbox"/> NITROBENZENE	D036	_____
<input type="checkbox"/> CHROMIUM	D007	_____	<input type="checkbox"/> PENTACHLOROPHENOL	D037	_____
<input type="checkbox"/> O-CRESOL	D023	_____	<input type="checkbox"/> PYRIDINE	D038	_____
<input type="checkbox"/> M-CRESOL	D024	_____	<input type="checkbox"/> SELENIUM	D010	_____
<input type="checkbox"/> P-CRESOL	D025	_____	<input type="checkbox"/> SILVER	D011	_____
<input type="checkbox"/> CRESOL	D026	_____	<input type="checkbox"/> TETRACHLOROETHYLENE	D039	_____
<input type="checkbox"/> 2,4-D	D016	_____	<input type="checkbox"/> TOXOPHENE	D015	_____
<input type="checkbox"/> 1,4-DICHLOROBENZENE	D027	_____	<input type="checkbox"/> TRICHLOROETHYLENE	D040	_____
<input type="checkbox"/> 1,2-DICHLOROETHANE	D028	_____	<input type="checkbox"/> 2,4,5-TRICHLOROPHENOL	D041	_____
<input type="checkbox"/> 1,1-DICHLOROETHYLENE	D029	_____	<input type="checkbox"/> 2,4,6-TRICHLOROPHENOL	D042	_____
<input type="checkbox"/> 2,4-DINITROTOLUENE	D030	_____	<input type="checkbox"/> 2,45-TP (SILVEX)	D017	_____
<input type="checkbox"/> ENDRIN	D012	_____	<input type="checkbox"/> VINYL CHLORIDE	D043	_____
<input type="checkbox"/> HEPTACHLOR (AND ITS HYDROXIDE)	D031	_____			
<input type="checkbox"/> HEXACHLOROBENZENE	D032	_____			

PART III

FOR DRMO USE ONLY

DRMO VERIFICATION

1. DATE VERIFIED _____

2. RESULTS ATTACHED

pH _____ FLASH POINT _____ SPECIFIC GRAVITY _____ HALIDES (TOX) _____

REACTIVITY: WATER REACTIVITY _____ CYANIDES _____ SULFIDES _____

TCLP _____

INSTRUCTIONS FOR DRMS FORM 1930

PART I

A. GENERAL INFORMATION

1. **GENERATOR NAME** - Enter the name of the generating facility.
2. **FACILITY ADDRESS** - Enter the street address of the generating facility.
3. **GENERATOR USEPA ID** - Enter the 12-character alpha-numeric descriptor issued by the USEPA to the facility generating the waste.
4. **GENERATOR STATE ID** - Enter the descriptor issued by the state to the facility generating the waste (if applicable).
5. **ZIP CODE** - Enter the generating facility's five or nine digit zip code.
6. **TECHNICAL CONTACT** - Enter the name of a person who will answer technical questions about the waste.
7. **TITLE** - Enter technical contact's title.
8. **PHONE** - Enter technical contact's telephone number.

B.

1. **NAME OF WASTE** - Enter the name that is generally descriptive of this waste (e.g., paint sludge, PCB-contaminated dirt, cyanide plating waste).
2. **USEPA/OR STATE WASTE CODES(s)** - Indicate the appropriate state or USEPA Hazardous Waste Identification Number (e.g., D001 U119, etc.).
3. **PROCESS GENERATING WASTE** - List the specific process/operation or source that generates the waste (e.g., paint spray booth, PCB spill, metal plating operation).
4. **PROJECTED ANNUAL VOLUME/UNITS** - Enter the amount of this waste which will be generated annually. Use appropriate units to describe this volume (e.g., pounds).
5. **MODE OF COLLECTION** - Describe the method utilized to collect and store the waste stream (e.g., drums, tanks, ponds).
6. **DIOXIN WASTE** - Storage and disposal of Dioxin wastes require special attention. If this waste is a USEPA listed Dioxin waste, indicate "YES" and contact your DRMO representative.
7. **LAND DISPOSAL RESTRICTIONS** - Indicate if the waste has been prohibited from land disposal, has received an exemption under 268.8 or meets the applicable treatment standards.

PART II

1. MATERIAL CHARACTERIZATION (OPTIONAL - NOT REQUIRED DATA)

COLOR - Describe the color of the waste (e.g., blue, clear, varies).

DENSITY - Indicate the range. The specific gravity of water is 1.0. Most organics are less than 1.0.

Chlorinated solvents, most inorganics and paint sludge are greater than 1.0.

BTU/LB - This entry is only required for property that may have potential for use as a fuel substitute.

ASH CONTENT - This entry only for used oil with recovery potential.

TOTAL SOLIDS - Content can be expressed as either a weight percentage or dry weight concentration (mg/kg).

LAYERING - Check all applicable boxes. Multi-layered means more than two layers (e.g., oil/water/sludge).

Bi-layered means the waste is comprised of two layers which may or may not be of the same phase (e.g., oil/water, solvent/sludge). Single phased means the waste is homogenous.

2. RCRA CHARACTERISTICS (40CFR261)

PHYSICAL STATE - If the four boxes provided do not apply, a descriptive phrase may be entered after "Other".

TREATMENT GROUP - Check the box which applies to the correct treatment group.

IGNITABLE - Indicate if the waste is ignitable (D001) and list its liquid flash point obtained using the

INSTRUCTIONS (Cont.)

appropriate testing method (40CFR261.21). The flash point is important from a transportation standpoint (49CFR173.115). Also list if this waste is considered to be a HIGH TOC IGNITABLE (contains GE. 10% total organic carbon) or a LOW TOC IGNITABLE (contains LT. 10% TOC). Knowledge of high/low TOC is required due to Third Land Ban regulations. Solids with flammable potential should be identified in PART 3 (e.g., Pyrophoric, RCRA Reactive, other).

CORROSIVE - Indicate if the waste is corrosive (D002) and its pH for liquid or liquid portions of the waste. Also indicate if this waste corrodes steel (40CFR261.22). For solid or organic liquid wastes, indicate the pH of a 10% aqueous solution of the waste if applicable. Write "NA" for nonwater soluble materials (e.g., dismantled tanks, empty drums, gases).

REACTIVE - Indicate if the waste is reactive (D003) and if it is water reactive, cyanide reactive, or sulfide reactive (40CFR261.23).

TOXICITY CHARACTERISTIC - Check appropriate box and list contaminant level.

3. CHEMICAL COMPOSITION

Indicate if any of the listed chemical components (e.g., copper, nickel, phenols, PCBs, etc.) are present in the waste and indicate the concentration level in ppm or mg/L.

OTHER - Indications of other hazardous characteristics must be included (e.g., explosives, radioactive, etiological, peroxide, etc.).

NOTE: Explosives, shock sensitive, pyrophoric, radioactive, and etiological waste normally are not accepted by the DRMO for disposal.

4. MATERIAL COMPOSITION

Section 4 is necessary to determine if any listed wastes have been added to a characteristic waste in addition to the basic material makeup.

List all organic and/or inorganic components of the waste using specific chemical names. If trade names are used, attach Material Safety Data Sheets or other documents which adequately describe the composition of the waste. For each component, estimate the range (in percents) in which the component is present. In case of extreme pH (2 or less or 12.5 or greater) indicate specific acid or caustic species present. This list must include any hazardous components listed in PART II which exceed 10,000 ppm (1%). the total of the maximum values of the components must be greater than or equal to 100% including water, earth, etc.

5. SHIPPING INFORMATION

The presented information is not meant to constitute a standard USDOT certificate given by a shipper offering a package to a transporter.

If the information contained in this section is also given on a manifest at time of turn-in, copy of the manifest will suffice.

Indicate if this waste is regulated by U.S. Department of Transportation (DOT) (49CFR172.01).

PROPER SHIPPING NAME - Enter the proper USDOT shipping name for this waste (49CFR172.101).

HAZARD CLASS - Enter the proper USDOT hazard class (49CFR172.101).

ID# - Enter the proper USDOT Identification Number (49CFR172.101).

ADDITIONAL DESCRIPTION - Enter any additional shipping information required (e.g., "RQ", the names of Hazardous Substance Constituents as they would appear on the Uniform Hazardous Waste Manifest and the packaging) (40CFR172.203).

CERCLA/DOT REPORTABLE QUANTITY (RQ) - Enter the Reportable Quantity for this waste from 49CFR172.101 or 40CFR302.

INSTRUCTIONS (Cont.)

EMERGENCY RESPONSE GUIDE PAGE - Indicate the appropriate guide page found in DOT Publication 5800.4 as required by 40CFR172.602.

SPECIAL HANDLING INFORMATION - Describe those hazards which you know or reasonably believe are or may be associated with short term or prolonged human exposure to this waste (29CFR1910.1200). If known, please identify any carcinogens present in this waste in excess of 0.1% [29CFR1910.1200(d)(4)]. Attach relevant documents as a part of your response if appropriate. If documents are attached, identify those attachments. If you have a current Material Safety Data Sheet, it may be attached. Failure to make an entry in PART 5 is considered to be a representation that you neither know nor believe that there are any adverse human health effects associated with exposure to this waste. Also include in any additional information that will aid in the management of the waste.

6. GENERATOR CERTIFICATION

"CHEMICAL ANALYSIS" OR "USER KNOWLEDGE" OR A COMBINATION OF BOTH IS MANDATORY AND SHOULD BE ATTACHED TO THE HAZARDOUS WASTE PROFILE SHEET. THIS IS USED AS SUPPORTING DOCUMENTATION TO THE WASTE PROFILE SHEET.

An authorized employee of the generator must sign and date this certification on the completed generator's Hazardous Waste Material Profile Sheet.

CHEMICAL ANALYSIS - Attach copy of analysis.

USER KNOWLEDGE - User knowledge is appropriate when it can be documented (e.g., in & out logs, published info, msds, process production info). There is room provided to explain "what" and "why" user knowledge is used in lieu of analysis. Attach all supporting documentation.

PART III

DRMO VERIFICATION

This section will be filled in by the appropriate DRMO personnel.

1. **DATE VERIFIED** - Enter date of last verification testing done on waste stream.
2. **RESULTS** - Enter results of verification testing or attach test results. If attached, please indicate so.

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address

4. Generator's Phone ()

5. Transporter 1 Company Name

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

10. US EPA ID Number

A. State Manifest Document Number

B. State Generator's ID

C. State Transporter's ID

D. Transporter's Phone

E. State Transporter's ID

F. Transporter's Phone

G. State Facility's ID

H. Facility's Phone

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

12. Containers

13. Total Quantity

14. Unit Wt/Val

1. Waste No.

No.	Type	Quantity	Unit Wt/Val	Waste No.
a.				
b.				
c.				
d.				

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name _____ Signature _____ Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name _____ Signature _____ Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name _____ Signature _____ Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name _____ Signature _____ Month Day Year

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL — RETURN TO GENERATOR

Hazardous Waste Manifest Instructions

Item	Title	Instructions	
1	Generator's U.S. EPA ID number and Manifest Document Number	Enter the installation's unique 12-digit EPA identification number. Immediately following the EPA ID number, enter a unique five-digit number which assigned to this manifest (number each shipment consecutively or use the Julian date which corresponds to the shipment date).	
2	Page 1 of _____	Enter the total number of pages used. Continuation sheets must be used if more than four waste types are being shipped to the same TSDF on the same shipment or if more than two transporters are used.	
3	Generator's Name and Mailing Address	Enter the name and mailing address of the installation's organization that will manage the returned manifest forms (normally the environmental manager).	
4	Generator's Phone Number	Enter the phone number of an authorized organization on-base that can be reached in the event of an emergency, twenty-four hours a day while the shipment is in transit. <i>See Emergency Communication Requirements.</i> ⁽²⁾	
5	Transporter 1 (Company Name)	Enter the company name of the first transporter who will transport the waste off-installation.	
6	U.S. EPA ID Number for Transporter 1	Enter the U.S. EPA twelve digit identification number of the first transporter identified in Item 5.	
7	Transporter 2 (Company Name)	If a second transporter will be used to transport the waste to the designated TSDF enter the name of the second transporter. If more than two transporters are used, the additional transporters must be listed on the continuation sheet. <i>Every transporter used between the installation and the designated facility must be listed.</i>	
8	U.S. EPA ID Number for Transporter 2	If a second transporter will be used, enter the second transporter's U.S. EPA identification number.	
9	Designated Facility Name and Site Address	Enter the company name and the site address of the facility you have designated to receive the hazardous waste listed on the manifest. <i>The address must be the site address and cannot be a post office box or rural route number.</i>	
10	U.S. EPA Identification Number for Designated Facility	Enter the U.S. EPA twelve-digit number of the designated facility identified in item 9.	
11	U.S. DoT Proper Shipping Name, Hazard Class, and ID Number, and Packing Group (HM-181 change)	Enter the best and most descriptive DoT proper shipping name, hazard class, UN or NA identification number, and packing group. This information should be listed on the hazardous waste profile sheet for the waste stream. Review the Hazardous Materials Table and the appendix to the Hazardous Materials Table in 49 CFR 172 to ensure the proper shipping name is correct. Use the continuation sheet if space for additional waste descriptions is needed. <i>*See Emergency Communication Requirements.</i> ⁽²⁾	
12	Number and Type of Containers	Enter the number and type of containers for each waste.	
Abbreviation	Type of Container	Abbreviation	Type of Container
DM	Metal drums, barrels, kegs	DT	Dump trucks
DW	Wooden drums, barrels, kegs	CY	Cylinders
DF	Fiberboard or plastic drums, barrels, keg	CM	Metal boxes, cartons, cases (including roll-offs)
TP	Portable tanks	CW	Wooden boxes, cartons, cases
TT	Cargo tanks (tank trucks)	CF	Fiber or plastic boxes, cartons, case

Hazardous Waste Manifest Instructions

TC	Tank cars	BA	Burlap, cloth, paper, or plastic bags
13	Total Quantity	Enter the total quantity, excluding the weight of the packaging, of waste described on each line.	
14	Unit of Measure	Enter the appropriate unit of measure (either by weight or by volume) for each waste listed in item 13. G - Gallons (liquids only); P = Pounds; T = Tons (2000 pounds); Y = Cubic Yards; L = Liters (liquids only); K = Kilograms; M = Metric tons (1000 kilograms); and N - Cubic Meters.	
15	Special Handling Instructions	If the installation is exporting the hazardous waste, the city and state where wastes will depart from the United States must be entered in this block. This block may be used to indicate special transportation, treatment, storage, or disposal information of bill of lading information. For example, the waste characterization or profile number assigned to your waste by the designated TSDF can be entered in this space. The space may also be used to designate an alternate TSDF to which the waste should be transported if the primary designated facility is unable to receive the waste. *See <i>Emergency Communication Requirements</i> ⁽²⁾ .	
16	Generator's Certification	<p>The generator must read, sign by hand, and date the certification statement. When the manifest is signed, the person signing it is legally certifying the following: the shipment is fully and accurately described on the manifest; the containers are in proper condition for transportation; a waste minimization program is in place at the installation; and the method of treatment, storage, or disposal is the best available to the installation.</p> <p>The Base Commander or his designees has primary responsibility for signing the manifest as the generator. The designees should be the servicing DRMO or the installation environmental manager. Where DRMO is not the Base Commander's designee, DRMO will co-sign all manifests for shipments of hazardous waste on Defense Logistics Agency accountable records.</p> <p>If a mode of transportation other than highway is being used, cross out the word "highway" in the certification and insert the appropriate mode of transportation, such as rail, water, or air. If rail, water, or air transportation of your waste will occur in addition to highway transportation, add the words "and rail," "and water," or "and air" after the "highway" in the certification.</p> <p>If the installation is exporting the hazardous waste, add at the end of the first sentence of the certification the following words: "and conforms to the terms of the EPA Acknowledgment of Consent to this shipment."</p>	
17	Transporter 1 (Acknowledgment of Receipt of Materials)	The first transporter must print or type the name of the person accepting the waste, sign, and date the manifest to acknowledge receipt of a shipment. <i>Obtain the hand written signature of the first transporter before the waste is shipped off-installation and retain this copy of the open manifest.</i> Transporters must then deliver the waste to the next designated transporter (If indicated in item 7), the designated facility (as indicated in item 9), an alternate facility designated by the installation, or a designated place outside the United States if the installation is exporting the hazardous waste.	
18	Transporter 2 (Acknowledgment of Receipt of Materials)	If more than one transporter is used, the second transporter, must print or type the name of the person accepting the waste, sign, and date the manifest to acknowledge receipt of a shipment from the first transporter.	

Hazardous Waste Manifest Instructions

19	Discrepancy Indication Space	<p>The designated TSDF or alternate designated facility must note in this space any significant discrepancies between the quantity or type of waste described on the manifest and the quantity or type of waste actually received at the facility. Significant discrepancies in quantity are, for bulk wastes, variations greater than ten percent by weight. A variation in piece count is considered to be a significant discrepancy for waste delivered in containers. For example, one missing or extra drum in a truckload is a significant discrepancy.</p> <p>Significant discrepancies pertaining to the type of waste would be obvious differences, discovered by the TSDF, between the type of waste described on the manifest and the type of waste actually received. For example, waste solvent substituted for waste acid or toxic constituents not reported on the manifest are significant discrepancies.</p>
20	Facility Owner or Operator Certification of Receipt of Hazardous Materials Covered by this Manifest Except as Noted in Item 19	The owner, operator, or authorized representative of the TSDF must print or type and sign his or her name, and enter the date. By signing the manifest, the TSDF acknowledges that the waste has been received and accepted, except for any discrepancies noted in item 19. The TSDF must retain a copy of the manifest and, within 30 days of delivery, send a copy of the closed manifest to the generator.
A ⁽¹⁾	State Manifest Document Number	this is usually a preprinted number on state manifests. Carry over to continuation sheets.
B ⁽¹⁾	State Generator's ID	Enter if state ID number is different than U.S. EPA ID number.
C ⁽¹⁾	State Transporter's ID	Enter state certified hauler number and driver certification number (if required by state).
D ⁽¹⁾	Transporter's Phone	Enter number where authorized agent can be contacted during an emergency.
E ⁽¹⁾	State Transporter's ID	Enter state certified hauler number and driver certification number (if required by state).
F ⁽¹⁾	Transporter's Phone	Enter number where authorized agent can be contacted during an emergency.
G ⁽¹⁾	State Facility's ID	Enter state ID number.
H ⁽¹⁾	Facility's Phone	Enter number where authorized agent can be contacted during an emergency.
I ⁽¹⁾	Waste Number	Enter EPA hazardous waste number.
J ⁽¹⁾	Additional Description for Materials Listed Above	Enter EPA hazardous code (I/C/R/E/H/T), physical state (solid-S; liquid-L; gas-G; sludge-SL), specific gravity, and estimated percentage of each waste constituent.
K ⁽¹⁾	Handling Codes for Wastes Listed Above	Enter code for how waste will be handled (landfill-L; incineration, heat recovery, burning-B; chemical or physical treatment-T; reuse or recycling-R; and storage-S).

Hazardous Waste Manifest Instructions

Note 1: Items A through K (shaded area) are not required by the Federal regulations. However, many states may require the waste generator or the TSDf to complete some or all of this information. The instructions listed above are typical of the state requirements but state environmental authorities should be contacted to specific requirements have been identified.

Note 2: **Emergency Communication Requirements.** Emergency response telephone numbers must be entered on a manifest either immediately following description in item 11, in item 4, or another clearly visible location if the number is for all wastes listed on the manifest and the manifest indicates that the number is for emergency response information. For example, the notation "EMERGENCY CONTACT: (555) 555-1234" is an appropriate way to identify the emergency response telephone number on a manifest.

DoT regulations also require additional emergency response information to be included on the manifest or attached to the manifest. The manifest must include, as a minimum, the following information: hazardous materials description; immediate hazards to health; risks of fire or explosion; immediate precautions to be taken in the event of an accident or incident; immediate methods for handling small or large fires; initial methods for handling spills or leaks in the absence of fire; preliminary first aid measures; and 24-hour manned emergency response telephone number. Transporters must keep the information easily accessible during transportation. A reference for each waste stream to the appropriate guide page in the DoT Emergency Response Guidebook in Section 15 of the manifest will satisfy this requirement if the transporter maintains a copy of the Guidebook in the vehicle at all times.

The following burden disclosure statement must be included with each uniform hazardous waste manifest, either on the form, in the instructions to the form, or accompanying the form:

"Public reporting burden for this collection of information is estimated to average 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment, storage, and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing the burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and the Budget, Washington, DC 20503.

APPENDIX C

RADON PROGRAM COMPLIANCE BLOOMSBURG USARC

1. RADON PROGRAM OVERVIEW

Radon is a naturally occurring, colorless, and radioactive gas released by the natural degradation of uranium. Radon can be found in high concentrations in soils and rocks containing uranium, shale, granite, and phosphate. High concentrations of uranium in the soil is the primary source of elevated radon levels indoors. Radon becomes a health hazard when it concentrates inside enclosed or poorly ventilated areas. Radon gas can enter buildings through cracks in floors, floor drains, sumps, and other tiny cracks in hollow block walls. Elevated levels of radon are considered a health hazard due to the increased chances of developing lung cancer.

The primary objectives of the Army Radon Program are to:

- Implement the Army Radon Assessment Plan;
- Identify all structures with indoor radon levels greater than 4 picocuries per liter (pCi/l) and modify these structures to reduce levels to 4 pCi/l or less; and
- Implement the Army Radon Mitigation Plan with a specified action plan for completion of mitigation based on radon levels.

2. APPLICABILITY OF REGULATORY REQUIREMENTS

There are no federal regulations relating to radon. Based on information currently available, EPA believes that a safe indoor radon concentration level is 4 pCi/l. The Commonwealth of Pennsylvania and the Army have adopted a safe action level of 4 pCi/l. The Army requires mitigation for radon levels that exceed 4 pCi/l (Table 1).

3. RESPONSIBILITIES

The installation responsibilities include the following:

- Funding, executing, documenting, and managing the radon monitoring and mitigation efforts;
- Purchasing radon detectors and shipping detectors back to laboratory for analytical services;
- Ensuring that "spike" samples are analyzed;
- Maintaining radon results and summarizing those results for the 79th ARCOM;
- Completion of radon measurements by the 4th quarter fiscal year (FY) 1991;

- Notifying occupants of the results of radon testing and what action, if any, is required; and,
- Establishing an archival database compatible with Army systems for storing all measurement data.

4. COMPLIANCE SUMMARY

ECAAR Status: There were no Class I or Class II findings. There were two positive Class III findings.*

Recordkeeping: Radon results kept on file at FTIG, Environmental Office.

Reporting: Radon survey reports sent to FTIG, Environmental Office.

Mitigation: Radon levels were reduced through mitigation and are currently being measured in the main building and vehicle maintenance building.

TABLE 1. RADON MITIGATION TIME REQUIREMENTS

Radon Concentration (pCi/l)	Mitigation Time Requirements
> 200	1 month or move occupants
20-200	6 months
8-20	1-4 years depending on level of radon
4-8	5 years
< 4	No action required

* Class I Findings = Noncompliance with an existing environmental regulation, compliance agreement, consent order, or operating/discharge permit. These may stem from federal, state, or local requirements.

Class II Findings = Noncompliance with a future deadline in an environmental regulation, compliance agreement, or consent order. These may stem from federal, state, or local requirements.

Class III Findings = Findings based on management practices that are not based on regulatory requirements. These include findings based on Army Regulations and DoD directives. Class III findings may be positive or negative.

ECAAR results were obtained from a January 1994 ECAAR survey. The two positive Class III findings include the installation of radon monitoring and mitigation piping in the main

building and vehicle maintenance building. To date, no further remedial action is required.

ASBESTOS MANAGEMENT COMPLIANCE BLOOMSBURG USARC

1. ASBESTOS MANAGEMENT OVERVIEW

Asbestos, a group of natural fiber minerals, has been used primarily for thermal and acoustical purposes. Asbestos becomes a health hazard when it degrades into microscopic fibers causing it to crumble. This crumbled form of asbestos is known as "friable" asbestos. Due to the potential health effects of breathing in friable asbestos, the Army has established a program to manage asbestos on Army installations. The program entails identifying asbestos and abating the areas cited as a health risk.

Below is a list of the primary objectives of the Army's Asbestos Management Program.

- Minimize environmental releases and occupational and incidental exposure;
- Exclude asbestos from procurement and uses where asbestos free substitutes exist;
- Handle, store, transport, and dispose of asbestos in compliance with all applicable regulations;
- Develop and maintain an inventory of all asbestos in Army structures and determine the potential for human exposure;
- In areas known to have asbestos, implement a program to minimize exposure until abatement is accomplished;
- Maintain a non-occupational environment safe from exposure; and
- Execute an Asbestos Management Plan (AMP) in support of Army policy.

2. APPLICABILITY OF REGULATORY REQUIREMENTS

There are several federal agencies charged with regulating asbestos products and wastes. EPA regulations pertaining to asbestos are contained in 40 CFR 61. The OSHA standard, which limits occupational exposure to asbestos, is contained in 29 CFR 1910 and 29 CFR 1926. In addition, EPA has published several guidance documents on asbestos management or abatement. Army Regulation (AR) 200-1, *Environmental Protection and Enhancement*, contains a chapter providing Army regulations for asbestos management. In addition to the Army regulations and the federal regulations, the Commonwealth of Pennsylvania, Department of Labor and Industry, requires notification regarding asbestos abatement projects. Abatement pertains not only to demolition activities, but also to any type of action that is taken to minimize exposure or release.

Prior to beginning any asbestos abatement project, notice must be provided to the Pennsylvania Department of Labor and Industry at the following address:

Asbestos Notification
PO Box 8468
400 Market Street
Harrisburg, PA 17105-8468

3. RESPONSIBILITIES

The Army is responsible for appropriating adequate resources to identify, manage, and control exposure to asbestos, prohibiting the introduction of asbestos into the workplace, providing personal protective equipment, and other requirements associated with the implementation of a nationwide asbestos management program. It is the responsibility of the Installation Commander to:

- Establish an Installation Asbestos Management Team to prepare and execute the Installation AMP;
- Perform and update asbestos surveys to determine the location, extent, and condition of all asbestos;
- Complete an initial asbestos survey, performed by accredited personnel, by 23 May 1991 per Army Regulation 200-1;
- Annotate master planning documents and drawings to indicate real property containing asbestos;
- Notify 79th ARCOM whenever a notice of violation (NOV) is received;
- Prepare and implement an Operation and Maintenance (O&M) Plan that minimizes and monitors asbestos exposure in areas where potential asbestos exposure exists;
- Develop an environmental impact analysis of the installation asbestos management plan as required by Army Regulation 200-2; and,
- Provide worker education and training programs for individuals that are identified to work with asbestos.

4. COMPLIANCE STATUS SUMMARY

ECAAR Status: There are no Class I or Class II findings in this protocol. There were two Class III findings: the facility did not maintain an asbestos management plan; and an asbestos survey by AHERA trained personnel was not done as of

January 1994.

Surveys: According to the FM, an asbestos survey to remove asbestos insulation was managed by Fort Indiantown Gap and completed between November 1994 and January 1995.

Recordkeeping: Asbestos survey results were not available at Bloomsburg USARC. ECAAR results available at Bloomsburg USARC.

Plan contents: Unknown

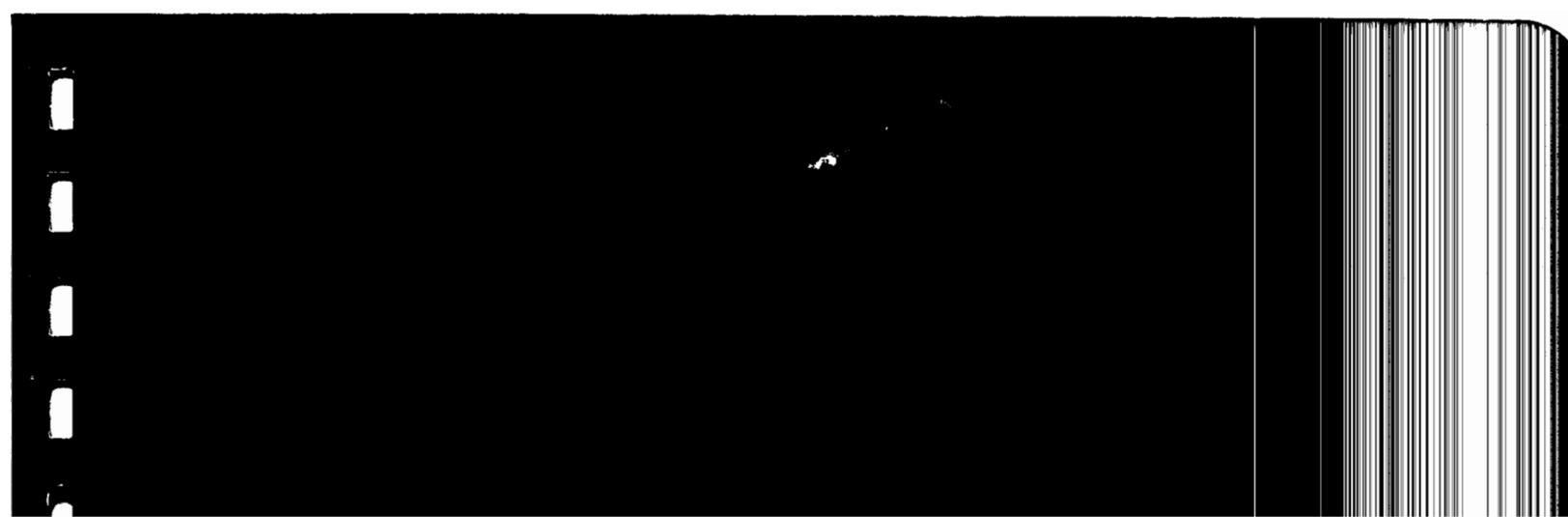
Documented accredited inspector: Unknown

* Class I Findings = Noncompliance with an existing environmental regulation, compliance agreement, consent order, or operating/discharge permit. These may stem from federal, state, or local requirements.

Class II Findings = Noncompliance with a future deadline in an environmental regulation, compliance agreement, or consent order. These may stem from federal, state, or local requirements.

Class III Findings = Findings based on management practices that are not based on regulatory requirements. These include findings based on Army Regulations and DoD directives. Class III findings may be positive or negative.

ECAAR results were obtained from a January 1994 ECAAR survey report. According to the FM, removal of asbestos containing materials (ACM) was completed by January 1995. To date, no further remedial action is required.



ENGINEERING TECHNOLOGIES ASSOCIATES, INC.

**3458 ELLICOTT CENTER DRIVE
ELLICOTT CITY, MD 21043
(410) 461-9920 BALT.
(301) 621-4690 WASH.**

**UST CLOSURE REPORT
FOR
BLOOMSBURG USARC
1469 OLD BERWICK RD.
BLOOMSBURG, PA 17815-3027
CONTRACT NO. DACA31-95-D-0106
DELIVERY ORDER NO. 0004**

Prepared by:

**Engineering Technologies Associates, Inc.
3458 Ellicott Center Dr.
Ellicott City, MD 21043**

November 1996

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1.0 INTRODUCTION

This closure report has been completed in response to the removal of two underground storage tanks at the Bloomsburg United States Army Reserve Center. The tank capacities were 1500 and 550 gallons, both tanks having been used to store #2 fuel oil. Both tanks were out of service, natural gas is the present source of heat for the facility. Both these tanks, having stored #2 fuel oil for the purpose of space heating, are unregulated by the federal government and the state of Pennsylvania. The removal was done as part of an ongoing contract with the Corps of Engineers (COE), Contract No. DACA31-95-D-0106.

2.0 RELEASE INVESTIGATION AND CONFIRMATION STEPS

2.1 EVIDENCE OF RELEASE AND RELEASE DETECTION

Release detection monitoring was not conducted prior to excavation and removal of the tanks.

2.2 ACTIONS TAKEN TO REMOVE THE TANK

Both tanks were excavated and removed for permanent closure on October 29, 1996. The steps taken to remove the tanks are detailed below:

1500 Gallon UST:

Approximately 1,100 gallons of fuel oil and 10 gallons of sludge was removed from this tank prior to excavation of the tank. Hazleton oil was used to supply Vac-trucks to remove all liquid from the tank. Copies of the Non-hazardous waste manifest are included in Appendix B.

The tank was removed using a backhoe. The tank and lines were inspected for holes (none were evident), loaded onto a flatbed and transported by Sensenig Salvage to their recycling facility in Chambersburg, PA. A two foot thick concrete hold down pad was present below the tank, and was left in place.

550 Gallon UST:

Approximately 500 gallons of fuel oil and 5 gallons of sludge was removed from this tank prior to excavation of the tank. Hazleton oil was used to supply Vac-trucks to remove all liquid and sludge from the tank. Copies of the Non-hazardous waste manifest are included in Appendix B.

The tank and remote fill line were removed using a backhoe. The tank and lines were inspected for holes (none were evident), loaded onto a flatbed and transported by Sensenig Salvage to their recycling facility in Chambersburg, PA. A two foot thick concrete hold down pad was present below the tank, and was left in place.

3.0 SAMPLING

No groundwater was encountered in either excavation, the only required sampling was of soil.

Soil samples were taken in the excavation and in the stockpiled soil, prior to backfill operations. Samples were analyzed for Naphthalene, Fluorene, Phenanthrene, Benzo(a)anthracene, Benzo(a)pyrene by EPA method 8270B. The new PADER sampling criteria, which took effect August 1, 1996, was used even though the tanks are not regulated by the state of Pennsylvania.

Soil sample results are included in Appendix C. All samples results were well below the regulatory action levels.

All sampling and laboratory analysis were completed using written quality assurance and quality control (QA/QC) standards overseen by the CQC manager. Laboratory analysis were performed in accordance with USEPA method 8270B and as specified in the WLSI Quality Assurance Plan.

4.0 TANK AND PIPING DISPOSAL

The tank and piping were hauled off-site to be scrapped by Sensenig Salvage in Chambersburg, PA. A copy of the "Certificate of Storage Tank Disposal" is included in Appendix E.

5.0 CLOSURE REPORT REQUIREMENTS

These tanks, having been used to store fuel oil for the purpose of space heating, are exempt from regulation by the state or federal government. This closure report is supplied to the Corps of Engineers as a part of the contract agreement, and does not serve to fulfill any regulatory requirements.

6.0 SITE RESTORATION

The excavations were backfilled with crushed stone and soil. Topsoil, seed and straw were placed over all the disturbed areas.

APPENDIX A

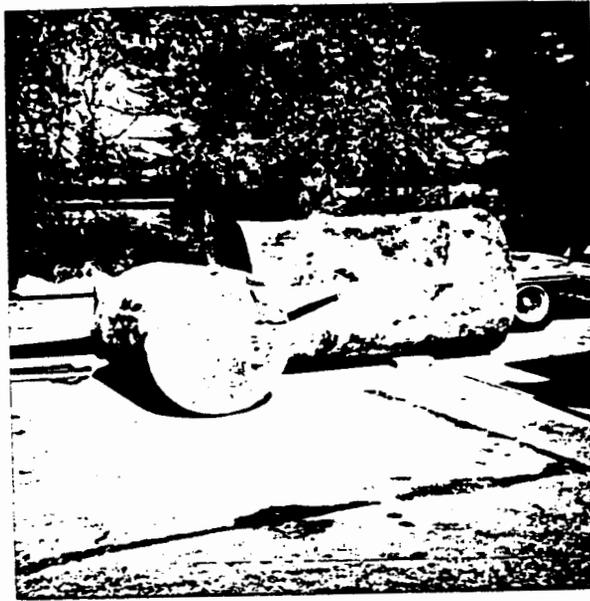


10/29/96-1500 GAL UST EXCAVATION, AFTER TANK REMOVAL



10/29/96-500 GAL UST EXCAVATION, AFTER TANK REMOVAL

DESIGNED _____ DATE _____	ENGINEERING TECHNOLOGIES ASSOCIATES, INC. ENGINEERS • PLANNERS • SURVEYORS <small>3408 ELLICOTT CENTER DRIVE SUITE 101 ELLICOTT CITY, MARYLAND 21043 MD. 41-0000 TEL. 410-436-1000</small>	BLOOMSBURG USARC PHOTOGRAPHIC SHEET 1		
DRAWN <u>R.G. 11/5/98</u> DATE _____		SCALE <u>NA</u>	CONTRACT NO. <u>95-D-0108</u>	DATE <u>11/5/98</u>
CHECKED _____ DATE _____				
APPROVED _____ DATE _____				



10/30/96-TANKS STOCKPILED PRIOR TO LOADING



10/30/96-TANKS LOADED ONTO FLATBED FOR TRANSPORTATION

DESIGNED _____
 DRAWN E.G. 11/5/96
 CHECKED _____
 APPROVED _____

**ENGINEERING TECHNOLOGIES
 ASSOCIATES, INC.**
 ENGINEERS • PLANNERS • SURVEYORS
 3488 ELICOTT CENTER DRIVE SUITE 101
 ELICOTT CITY, MARYLAND 21043
 BALTO. 410-588-1100 WASH. DC 202-833-8800

**BLOOMSBURG USARC
 PHOTOGRAPHIC SHEET 2**

SCALE NA COPY NO. 05-0-0104 DATE 11/5/96 SHEET

APPENDIX B

"Certificate of Storage Tank Disposal"

Transfer of Responsibility to
Sensenig Salvage
Chambersburg, Pennsylvania

PHONE: (717) 369-4283

DATE 10-27-76

The undersigned Salvage Facility accepts responsibility for the disposal of the tank(s) listed below in accordance with current Federal, State and Local regulations.

Having been permanently removed from service, these tanks ARE NOT

1. Vapor free
2. Suitable for storage of Food Liquids intended for Human or Animal consumption.
3. Suitable for Underground storage of FLAMMABLE/COMBUSTIBLE/HAZARDOUS Liquids or materials.

Owner Location	Gallon tank	Former Contents
<u>1-550</u>	Gallon tank	<u>Fuel oil</u>
<u>1-1500</u>	Gallon tank	<u>Fuel oil</u>
_____	Gallon tank	_____

Owner Location

Name: US Army Reserve Center
Address: 1469 Old Berwick Road
Bloomsburg Pa 17815-7902
Signature: [Signature]
Date: 10/29/76

* CONTRACTOR *
Engineer Technology

Salvage Facility
Sensenig Salvage
792 Coble Road
Chambersburg, PA 17201
Signature: [Signature]
Date: 10-27-76

HAZLETON OIL SALVAGE LTD.

P.O. Box No. 2339 Hazleton, PA 18201
 Phone# 800-458-3496 EPA#PA0000101816

H.O.S. LTD. TAKES FULL RESPONSIBILITY
 For The Pickup, Transportation And Disposition
 Of All Waste Effluent Accepted By Our Company
 YOU CAN TRUST US WITH ALL YOUR DISPOSAL NEEDS

Customer PO # _____ WORK ORDER # 223909
 Phone _____
 Bill To: Engineering Dept
 Address _____
 City: State _____ Zip _____

Date 10/28/86 Driver Jim Vehicle 76G2
 Job Site US Army Reserve
 Address 1469 Old British Rd City Blain
 Time Arrived 8:55 Time Finished 9:50

QUANTITY	UNITS	IF PRICED: USE AS YOUR INVOICE	UNIT PRICE	TOTALS
1600	gallons	Waste #2 oil pumped from (2) two USTs		
TANK CLEANING		<input checked="" type="checkbox"/> IF YES	EXCESS TANK TIME:	
Driver Signature if COD		<input checked="" type="checkbox"/> IF CASH	CHECK NUMBER	NET 15 DAYS
			Total:	

GENERATOR CERTIFIES HIS PRODUCT AS NON-HAZARDOUS

Accepted by: SIGN Accepted by: PRINT Representative of: _____

HAZLETON OIL SALVAGE LTD.

P.O. Box No. 2339 Hazleton, PA 18201
 Phone# 800-458-3496 EPA#PA0000101816

H.O.S. LTD. TAKES FULL RESPONSIBILITY
 For The Pickup, Transportation And Disposition
 Of All Waste Effluent Accepted By Our Company

YOU CAN TRUST US WITH ALL YOUR DISPOSAL NEEDS

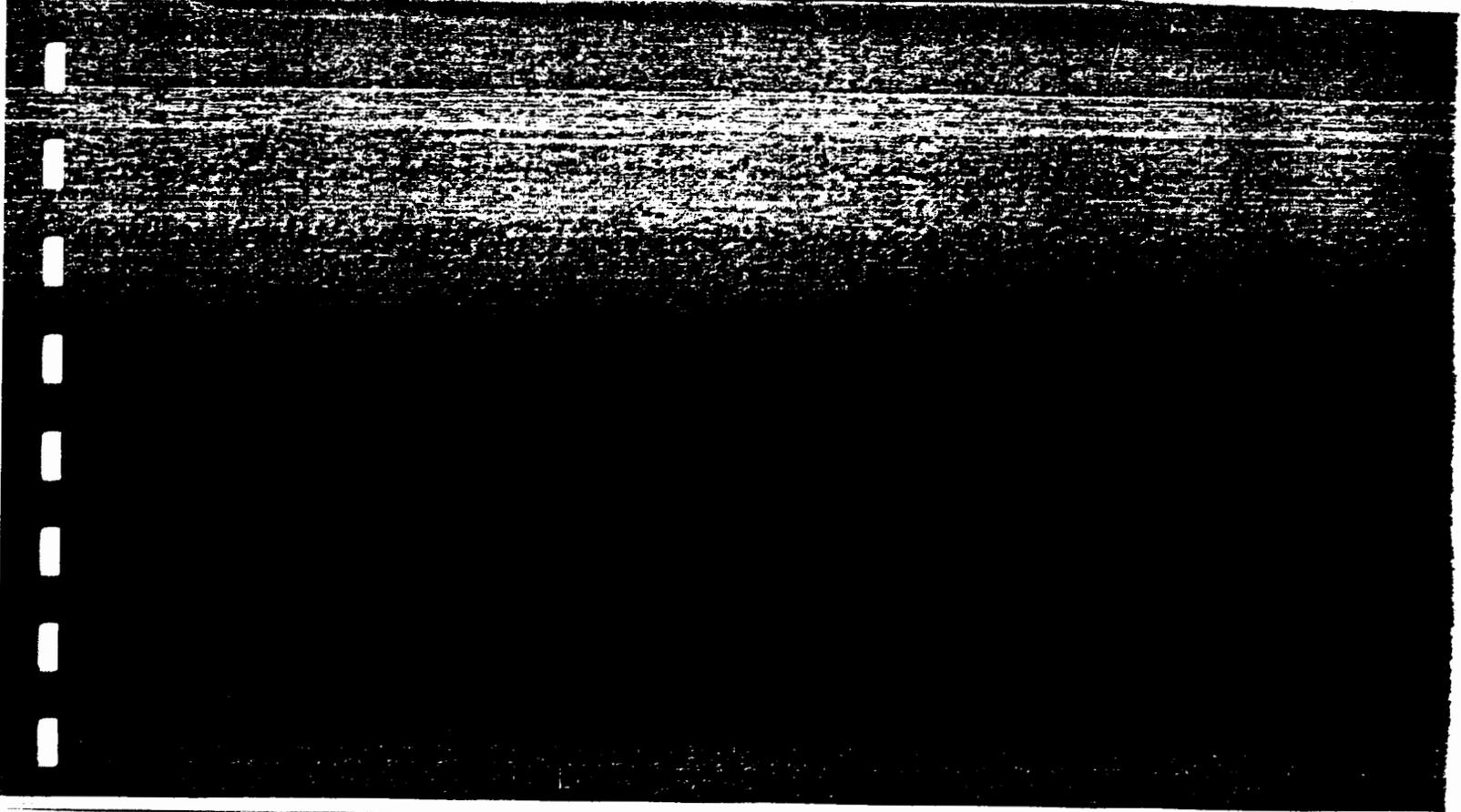
Customer PO # _____ WORK ORDER # 023126
 Phone 410-461-9920
 Bill To: Engineering Dept
 Address 3458 Elliott Center Drive
 City: State Elliott Md Zip 21043

Date 10/28/96 Driver [Signature] Vehicle 83MV
 Job Site [Signature] City [Signature]
 Address [Signature]
 Time Arrived 2:00 PM Time Finished 2:30 PM

QUANTITY	UNITS	IF PRICED: USE AS YOUR INVOICE	UNIT PRICE	TOTALS
15	gallons	White #2 oil tank bottoms pumped from (2) two USTs		
		Use truck service		
TANK CLEANING	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	EXCESS TANK TIME	hrs. min.	
Driver Signature if COD	CK. #	Cash?	NET 15 DAYS	Sum Total

GENERATOR CERTIFIES HIS PRODUCT AS NON-HAZARDOUS

Accepted by SIGN [Signature] Accepted by PRINT [Signature] Representative of: _____



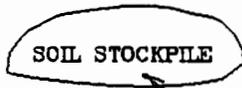
APPENDIX C

Wright Laboratory Services, Inc.
CHAIN OF CUSTODY RECORD

PHONE ORDER TAKEN BY: _____
DATE ORDERED: _____

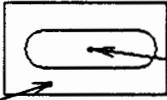
DATE REQUESTED: _____

REPORT TO: <i>Environmental Technology Associates</i>		CONTACT <i>Rot Gribben</i>	PHONE NO. <i>301 656-3815</i>	SALESMAN
BILL TO: ↑		PROJECT NAME	PROJECT NO.	P.O. NO.
DATE SAMPLED <i>10-29-96</i>		SAMPLER(S) <i>Bill</i>	<i>BELHAM</i>	
SAMPLE DESCRIPTION/LOCATION		ANALYSES TO BE PERFORMED		
1 SOIL BLMS 550-1		REMARKS		
2 ↓ BLMS 550-1		WOODER FILL		
3 ↓ BLMS 550-1		Supply Line		
4 ↓ BLMS 550-1		Stack Pile		
5 ↓ BLMS 550-1		WOODER FILL		
6 ↓ BLMS 550-1		Supply Line		
7 ↓ BLMS 550-1		WOODER TANK		
8 ↓ BLMS 550-1		Stack Pile		
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
REMARKS: * Naphthalene, Fluorene, Phenanthrene, Benzofluoranthrene Benzobenzofluoranthrene (82708)		SHIPPING CARRIER:		
RECEIVED BY: <i>[Signature]</i>		SHIPPING TICKET NUMBER:		
DATE TIME <i>10/29 1047</i>		CHAIN-OF-CUSTODY SEAL:		
RECEIVED BY: <i>[Signature]</i>		INTACT		
DATE TIME <i>11/29 1047</i>		BROKEN		
RECEIVED BY: <i>[Signature]</i>		ABSENT		
DATE TIME <i>10-29-96 1505</i>		DATE TIME <i>11/29 1331</i>		



SOIL STOCKPILE

BLMS550-3



BLMS550-1

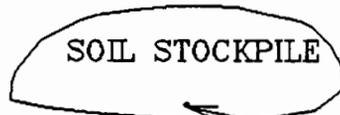
BLMS550-2

EXCAVATION LIMIT

550 GAL UST

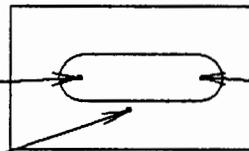
MAINT. SHOP

CHAIN LINK FENCE



SOIL STOCKPILE

BLMS1500-4



BLMS1500-1

BLMS1500-3

BLMS1500-2

EXCAVATION LIMIT

1500 GAL UST

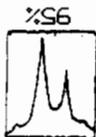
ARMY RESERVE CTR.
BUILDING

DESIGNED _____ DATE _____
 DRAWN R.G. 11/5/96 DATE _____
 CHECKED _____ DATE _____
 APPROVED _____ DATE _____

**ENGINEERING TECHNOLOGIES
ASSOCIATES, INC.**
 ENGINEERS • PLANNERS • SURVEYORS
 3408 ELLIOTT CENTER DRIVE SUITE 101
 ELLIOTT CITY, MARYLAND 21843
 PHONE 410-952-8888 FAX 410-952-8888

**BLOOMSBURG USARC
SAMPLING LOCATIONS**

SCALE NA CONTRACT NO. WVCL-96-0-0108 DATE 11/5/96 SHEET _____



Wright Laboratory SERVICES INC.

ENVIRONMENTAL TESTING LABORATORIES

Page # 1
Sample # 89527-1

ATTN: Mr. Rob Gribben
ENGINEERING TECH. ASSOC. INC.
3458 ELLICOTT CENTER DRIVE
SUITE 101
ELLICOTT MD 21043

#: (410) 750-8565
ATTN: Rob

November 5, 1996

pages: 25

LAB ANALYSIS REPORT

Job Name	: Engineering Tech.	Customer PO#	:
Job Number	: ET2135-RG-MC	Date Sampled	: 10/29/96 10:28 AM
Location	: BLMS 550-1	Date Received	: 10/29/96
Sample State	: Soil	Date Approved	: 11/05/96
Collector	: WJB	Discard Date	: 11/17/96
	Grab		

TEST/PARAMETER	RESULT	UNITS	DETECTION LIMIT	METHOD
WATER QUALITY				
Total Solids	88	%	1	3540B

Diesel Fuel, Fuel Oil #2

GAS CHROMATOGRAPH MASS SPEC.

BASE NEUTRAL COMPOUNDS

Benzo(a)anthracene	N.D.	ug/kg	70	8270B
Benzo(a)pyrene	N.D.	ug/kg	70	8270B
Fluorene	N.D.	ug/kg	100	8270B
Naphthalene	N.D.	ug/kg	100	8270B
Phenanthrene	N.D.	ug/kg	100	8270B

Benzo(a)anthracene	< 80	ug/kg	Dry Weight
Benzo(a)pyrene	< 80	ug/kg	Dry Weight
Fluorene	< 110	ug/kg	Dry Weight
Naphthalene	< 110	ug/kg	Dry Weight
Phenanthrene	< 110	ug/kg	Dry Weight

N.D. - Not Detected

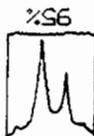
**** Continued ****

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(717) 944-5541 • FAX (717) 944-1430

Maryland • (410) 244-8889



Wright Laboratory

SERVICES INC.

ENVIRONMENTAL TESTING LABORATORIES

Page # 2
Sample # 89527-1

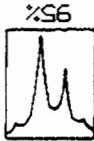
November 5, 1996

This report relates only to the samples as received by the laboratory, and may only be reproduced in full.

QUALITY ASSURANCE REPORT

Q/A PARAMETER	RESULT		
GAS CHROMATOGRAPH MASS SPEC.			
BASE NEUTRAL COMPOUNDS			
2-Fluorobiphenyl	87	% Recovery	Surrogate
2-Fluorobiphenyl	93	% Recovery	Surrogate
2-Fluorobiphenyl	70	% Recovery	Surrogate
Nitrobenzene-d5	78	% Recovery	Surrogate
Nitrobenzene-d5	80	% Recovery	Surrogate
Nitrobenzene-d5	59	% Recovery	Surrogate
Terphenyl-d14	109	% Recovery	Surrogate
Terphenyl-d14	106	% Recovery	Surrogate
Terphenyl-d14	94	% Recovery	Surrogate
Benzo(a)anthracene	110	% Recovery	Spike
Benzo(a)anthracene	93	% Recovery	Spike
Benzo(a)pyrene	108	% Recovery	Spike
Benzo(a)pyrene	90	% Recovery	Spike
Fluorene	100	% Recovery	Spike
Fluorene	85	% Recovery	Spike
Naphthalene	76	% Recovery	Spike
Naphthalene	58	% Recovery	Spike
Phenanthrene	99	% Recovery	Spike
Phenanthrene	84	% Recovery	Spike

**** Continued ****



Wright Laboratory

SERVICES INC.

ENVIRONMENTAL TESTING LABORATORIES

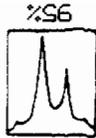
Page # 3
Sample # 89527-1

November 5, 1996

TEST/PARAMETER	PRESERVATIVE	TECH	ANALYSIS	
			DATE	TIME
Total Solids	Cool to 4 Deg. C	TPL	10/30/96	04:00
BASE NEUTRAL COMPOUNDS	Cool to 4 Deg. C	CWW	11/02/96	18:50
3550A Ultrasonic Extraction		JEK	11/01/96	

Respectfully Submitted,
WRIGHT LABORATORY SERVICES

James L. Ressler
James L. Ressler
Laboratory Manager



9.56

7179480143

NOV-05-1996 09:49

Wright Laboratory

SERVICES INC.

ENVIRONMENTAL TESTING LABORATORIES

Page # 1
Sample # 89527-2

ATTN: Mr. Rob Gribben
ENGINEERING TECH. ASSOC. INC.
3458 ELLICOTT CENTER DRIVE
SUITE 101
ELLICOTT MD 21043

November 5, 1996

LAB ANALYSIS REPORT

Job Name	: Engineering Tech.	Customer PO#	:
Job Number	: ET2135-RG-MC	Date Sampled	: 10/29/96 10:30 AM
Location	: BLMS 550-2	Date Received	: 10/29/96
Sample State	: Soil	Date Approved	: 11/05/96
Collector	: WJB	Discard Date	: 11/17/96
	Grab		

TEST/PARAMETER	RESULT	UNITS	DETECTION LIMIT	METHOD
WATER QUALITY				
Total Solids	88	%	1	3540B
Diesel Fuel, Fuel Oil #2				
GAS CHROMATOGRAPH MASS SPEC.				
BASE NEUTRAL COMPOUNDS				
Benzo(a)anthracene	N.D.	ug/kg	70	8270B
Benzo(a)pyrene	N.D.	ug/kg	70	8270B
Fluorene	N.D.	ug/kg	100	8270B
Naphthalene	N.D.	ug/kg	100	8270B
Phenanthrene	N.D.	ug/kg	100	8270B
Benzo(a)anthracene	< 80	ug/kg		Dry Weight
Benzo(a)pyrene	< 80	ug/kg		Dry Weight
Fluorene	< 110	ug/kg		Dry Weight
Naphthalene	< 110	ug/kg		Dry Weight
Phenanthrene	< 110	ug/kg		Dry Weight

N.D. - Not Detected

**** Continued ****

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Maryland • (410) 244-8889



Wright Laboratory

SERVICES INC.

ENVIRONMENTAL TESTING LABORATORIES

Page # 2
Sample # 89527-2

November 5, 1996

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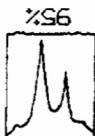
QUALITY ASSURANCE REPORT

Q/A PARAMETER	RESULT		
GAS CHROMATOGRAPH MASS SPEC.			
BASE NEUTRAL COMPOUNDS			
2-Fluorobiphenyl	69	% Recovery	Surrogate
Nitrobenzene-d5	50	% Recovery	Surrogate
Terphenyl-d14	90	% Recovery	Surrogate

TEST/PARAMETER	PRESERVATIVE	TECH	ANALYSIS	
			DATE	TIME
Total Solids	Cool to 4 Deg. C	TPL	10/30/96	04:00
BASE NEUTRAL COMPOUNDS	Cool to 4 Deg. C	CWW	11/02/96	17:01
3550A Ultrasonic Extraction		JEK	11/01/96	

Respectfully Submitted,
WRIGHT LABORATORY SERVICES

James L. Ressler
James L. Ressler
Laboratory Manager



Wright Laboratory

SERVICES INC.

ENVIRONMENTAL TESTING LABORATORIES

Page # 1
Sample # 89527-3

-ATTN: Mr. Rob Gribben
ENGINEERING TECH. ASSOC. INC.
3458 ELLICOTT CENTER DRIVE
SUITE 101
ELLICOTT MD 21043

November 5, 1996

LAB ANALYSIS REPORT

Job Name : Engineering Tech.	Customer PO# :
Job Number : ET2135-RG-MC	Date Sampled : 10/29/96 10:32 AM
Location : BLMS 550-3	Date Received : 10/29/96
Sample State : Soil Grab	Date Approved : 11/05/96
Collector : WJB	Discard Date : 11/17/96

TEST/PARAMETER	RESULT	UNITS	DETECTION LIMIT	METHOD
WATER QUALITY				
Total Solids	84	%	1	3540B

Diesel Fuel, Fuel Oil #2

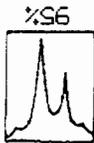
GAS CHROMATOGRAPH MASS SPEC.

BASE NEUTRAL COMPOUNDS

Benzo (a) anthracene	83	ug/kg	70	8270B
Benzo (a) pyrene	99	ug/kg	70	8270B
Fluorene	N.D.	ug/kg	100	8270B
Naphthalene	N.D.	ug/kg	100	8270B
Phenanthrene	N.D.	ug/kg	100	8270B
Benzo (a) anthracene	99	ug/kg		Dry Weight
Benzo (a) pyrene	120	ug/kg		Dry Weight
Fluorene	< 120	ug/kg		Dry Weight
Naphthalene	< 120	ug/kg		Dry Weight
Phenanthrene	< 120	ug/kg		Dry Weight

N.D. - Not Detected

**** Continued ****



Wright Laboratory

SERVICES INC.

ENVIRONMENTAL TESTING LABORATORIES

Page # 2
Sample # 89527-3

November 5, 1996

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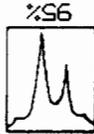
QUALITY ASSURANCE REPORT

Q/A PARAMETER	RESULT		
GAS CHROMATOGRAPH MASS SPEC.			
BASE NEUTRAL COMPOUNDS			
2-Fluorobiphenyl	82	% Recovery	Surrogate
Nitrobenzene-d5	75	% Recovery	Surrogate
Terphenyl-d14	108	% Recovery	Surrogate

TEST/PARAMETER	PRESERVATIVE	TECH	ANALYSIS	
			DATE	TIME
Total Solids	Cool to 4 Deg. C	TPL	10/30/96	04:00
BASE NEUTRAL COMPOUNDS	Cool to 4 Deg. C	CWW	11/02/96	20:11
3550A Ultrasonic Extraction		JEK	11/01/96	

Respectfully Submitted,
WRIGHT LABORATORY SERVICES

James L. Ressler
James L. Ressler
Laboratory Manager



Wright Laboratory

SERVICES INC.

ENVIRONMENTAL TESTING LABORATORIES

Page # 1
Sample # 89527-4

ATTN: Mr. Rob Gribben
ENGINEERING TECH. ASSOC. INC.
3458 ELLICOTT CENTER DRIVE
SUITE 101
ELLICOTT MD 21043

November 5, 1996

LAB ANALYSIS REPORT

Job Name : Engineering Tech.	Customer PO# :
Job Number : ET2135-RG-MC	Date Sampled : 10/29/96 10:42 AM
Location : BLMS 1500-1	Date Received : 10/29/96
Sample State : Soil Grab	Date Approved : 11/05/96
Collector : WJB	Discard Date : 11/17/96

TEST/PARAMETER	RESULT	UNITS	DETECTION LIMIT	METHOD
WATER QUALITY				
Total Solids	89	%	1	3540B

Diesel Fuel, Fuel Oil #2

GAS CHROMATOGRAPH MASS SPEC.

BASE NEUTRAL COMPOUNDS

Benzo(a)anthracene	N.D.	ug/kg	70	8270B
Benzo(a)pyrene	N.D.	ug/kg	70	8270B
Fluorene	N.D.	ug/kg	100	8270B
Naphthalene	N.D.	ug/kg	100	8270B
Phenanthrene	N.D.	ug/kg	100	8270B
Benzo(a)anthracene	< 79	ug/kg	Dry Weight	
Benzo(a)pyrene	< 79	ug/kg	Dry Weight	
Fluorene	< 110	ug/kg	Dry Weight	
Naphthalene	< 110	ug/kg	Dry Weight	
Phenanthrene	< 110	ug/kg	Dry Weight	

N.D. - Not Detected

**** Continued ****



Wright Laboratory

SERVICES INC.

ENVIRONMENTAL TESTING LABORATORIES

Page # 2
Sample # 89527-4

November 5, 1996

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QUALITY ASSURANCE REPORT

Q/A PARAMETER

RESULT

GAS CHROMATOGRAPH MASS SPEC.

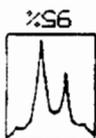
BASE NEUTRAL COMPOUNDS

2-Fluorobiphenyl	83	% Recovery	Surrogate
Nitrobenzene-d5	75	% Recovery	Surrogate
Terphenyl-d14	94	% Recovery	Surrogate

<u>TEST/PARAMETER</u>	<u>PRESERVATIVE</u>	<u>TECH</u>	<u>ANALYSIS</u>	
			<u>DATE</u>	<u>TIME</u>
Total Solids	Cool to 4 Deg. C	TPL	10/30/96	04:00
BASE NEUTRAL COMPOUNDS	Cool to 4 Deg. C	CWW	11/02/96	20:38
3550A Ultrasonic Extraction		JEK	11/01/96	

Respectfully Submitted,
WRIGHT LABORATORY SERVICES

James L. Ressler
James L. Ressler
Laboratory Manager



Wright Laboratory

SERVICES INC.

ENVIRONMENTAL TESTING LABORATORIES

Page # 1
Sample # 89527-5

ATTN: Mr. Rob Gribben
ENGINEERING TECH. ASSOC. INC.
3458 ELLICOTT CENTER DRIVE
SUITE 101
ELLICOTT MD 21043

November 5, 1996

LAB ANALYSIS REPORT

Job Name : Engineering Tech.	Customer PO# :
Job Number : ET2135-RG-MC	Date Sampled : 10/29/96 10:44 AM
Location : BLMS 1500-2	Date Received : 10/29/96
Sample State : Soil Grab	Date Approved : 11/05/96
Collector : WJB	Discard Date : 11/17/96

TEST/PARAMETER	RESULT	UNITS	DETECTION LIMIT	METHOD
WATER QUALITY				
Total Solids	89	%	1	3540B

Diesel Fuel, Fuel Oil #2

GAS CHROMATOGRAPH MASS SPEC.

BASE NEUTRAL COMPOUNDS

Benzo (a) anthracene	N.D.	ug/kg	70	8270B
Benzo (a) pyrene	N.D.	ug/kg	70	8270B
Fluorene	N.D.	ug/kg	100	8270B
Naphthalene	N.D.	ug/kg	100	8270B
Phenanthrene	N.D.	ug/kg	100	8270B

Benzo (a) anthracene	< 79	ug/kg	Dry Weight	
Benzo (a) pyrene	< 79	ug/kg	Dry Weight	
Fluorene	< 110	ug/kg	Dry Weight	
Naphthalene	< 110	ug/kg	Dry Weight	
Phenanthrene	< 110	ug/kg	Dry Weight	

N.D. - Not Detected

**** Continued ****



7179480143

Wright Laboratory

SERVICES INC.

ENVIRONMENTAL TESTING LABORATORIES

Page # 2
Sample # 89527-5

November 5, 1996

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QUALITY ASSURANCE REPORT

Q/A PARAMETER	RESULT		
GAS CHROMATOGRAPH MASS SPEC.			
BASE NEUTRAL COMPOUNDS			
2-Fluorobiphenyl	85	% Recovery	Surrogate
Nitrobenzene-d5	79	% Recovery	Surrogate
Terphenyl-d14	98	% Recovery	Surrogate

TEST/PARAMETER	PRESERVATIVE	TECH	ANALYSIS	
			DATE	TIME
Total Solids	Cool to 4 Deg. C	TPL	10/30/96	04:00
BASE NEUTRAL COMPOUNDS	Cool to 4 Deg. C	CWW	11/02/96	17:28
3550A Ultrasonic Extraction		JEK	11/01/96	

Respectfully Submitted,
WRIGHT LABORATORY SERVICES

James L. Ressler
James L. Ressler
Laboratory Manager



Wright Laboratory SERVICES INC.

ENVIRONMENTAL TESTING LABORATORIES

Page # 1
Sample # 89527-6

ATTN: Mr. Rob Gribben
ENGINEERING TECH. ASSOC. INC.
3458 ELLICOTT CENTER DRIVE
SUITE 101
ELLICOTT MD 21043

November 5, 1996

LAB ANALYSIS REPORT

Job Name	: Engineering Tech.	Customer PO#	:
Job Number	: ET2135-RG-MC	Date Sampled	: 10/29/96 10:46 AM
Location	: BLMS 1500-3	Date Received	: 10/29/96
Sample State	: Soil	Date Approved	: 11/05/96
Collector	: WJB	Discard Date	: 11/17/96
	Grab		

TEST/PARAMETER	RESULT	UNITS	DETECTION LIMIT	METHOD
WATER QUALITY				
Total Solids	91	%	1	3540B

Diesel Fuel, Fuel Oil #2

GAS CHROMATOGRAPH MASS SPEC.

BASE NEUTRAL COMPOUNDS

Benzo(a)anthracene	N.D.	ug/kg	70	8270B
Benzo(a)pyrene	N.D.	ug/kg	70	8270B
Fluorene	N.D.	ug/kg	100	8270B
Naphthalene	N.D.	ug/kg	100	8270B
Phenanthrene	N.D.	ug/kg	100	8270B

Benzo(a)anthracene	< 77	ug/kg	Dry Weight
Benzo(a)pyrene	< 77	ug/kg	Dry Weight
Fluorene	< 110	ug/kg	Dry Weight
Naphthalene	< 110	ug/kg	Dry Weight
Phenanthrene	< 110	ug/kg	Dry Weight

N.D. - Not Detected

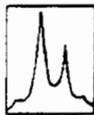
**** Continued ****

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Philadelphia • (610) 640-1323

(717) 944-5541 • FAX (717) 944-1430

Maryland • (410) 244-8889



Wright Laboratory

SERVICES INC.

ENVIRONMENTAL TESTING LABORATORIES

Page # 2
Sample # 89527-6

November 5, 1996

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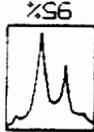
QUALITY ASSURANCE REPORT

Q/A PARAMETER	RESULT		
GAS CHROMATOGRAPH MASS SPEC.			
BASE NEUTRAL COMPOUNDS			
2-Fluorobiphenyl	81	‡ Recovery	Surrogate
Nitrobenzene-d5	72	‡ Recovery	Surrogate
Terphenyl-d14	96	‡ Recovery	Surrogate

TEST/PARAMETER	PRESERVATIVE	TECH	ANALYSIS	
			DATE	TIME
Total Solids	Cool to 4 Deg. C	TPL	10/30/96	04:00
BASE NEUTRAL COMPOUNDS	Cool to 4 Deg. C	CWW	11/02/96	17:55
3550A Ultrasonic Extraction		JEK	11/01/96	

Respectfully Submitted,
WRIGHT LABORATORY SERVICES

James L. Ressler
James L. Ressler
Laboratory Manager



7179480143

Wright Laboratory

SERVICES INC.

ENVIRONMENTAL TESTING LABORATORIES

Page # 1
Sample # 89527-7

ATTN: Mr. Rob Gribben
ENGINEERING TECH. ASSOC. INC.
3458 ELLICOTT CENTER DRIVE
SUITE 101
ELLICOTT MD 21043

November 5, 1996

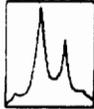
LAB ANALYSIS REPORT

Job Name	: Engineering Tech.	Customer PO#	:
Job Number	: ET2135-RG-MC	Date Sampled	: 10/29/96 10:47 AM
Location	: BLMS 1500-4	Date Received	: 10/29/96
Sample State	: Soil	Date Approved	: 11/05/96
Collector	: WJB	Discard Date	: 11/17/96
	Grab		

TEST/PARAMETER	RESULT	UNITS	DETECTION LIMIT	METHOD
WATER QUALITY				
Total Solids	89	%	1	3540B
Diesel Fuel, Fuel Oil #2				
GAS CHROMATOGRAPH MASS SPEC.				
BASE NEUTRAL COMPOUNDS				
Benzo(a)anthracene	N.D.	ug/kg	70	8270B
Benzo(a)pyrene	N.D.	ug/kg	70	8270B
Fluorene	N.D.	ug/kg	100	8270B
Naphthalene	N.D.	ug/kg	100	8270B
Phenanthrene	N.D.	ug/kg	100	8270B
Benzo(a)anthracene	< 79	ug/kg		Dry Weight
Benzo(a)pyrene	< 79	ug/kg		Dry Weight
Fluorene	< 110	ug/kg		Dry Weight
Naphthalene	< 110	ug/kg		Dry Weight
Phenanthrene	< 110	ug/kg		Dry Weight

N.D. - Not Detected

**** Continued ****



Wright Laboratory

SERVICES INC.

ENVIRONMENTAL TESTING LABORATORIES

Page # 2
Sample # 89527-7

November 5, 1996

This report relates only to the samples as received by the laboratory, and may only be reproduced in full.

QUALITY ASSURANCE REPORT

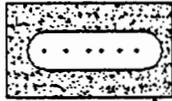
Q/A PARAMETER	RESULT		
GAS CHROMATOGRAPH MASS SPEC.			
BASE NEUTRAL COMPOUNDS			
2-Fluorobiphenyl	80	% Recovery	Surrogate
Nitrobenzene-d5	75	% Recovery	Surrogate
Terphenyl-d14	99	% Recovery	Surrogate

TEST/PARAMETER	PRESERVATIVE	TECH	ANALYSIS	
			DATE	TIME
Total Solids	Cool to 4 Deg. C	TPL	10/30/96	04:00
BASE NEUTRAL COMPOUNDS	Cool to 4 Deg. C	CWW	11/02/96	18:22
3550A Ultrasonic Extraction		JEK	11/01/96	

Respectfully Submitted,
WRIGHT LABORATORY SERVICES

James L. Ressler
James L. Ressler
Laboratory Manager

APPENDIX D



550 GAL UST
PAD 6' X 8'

3'

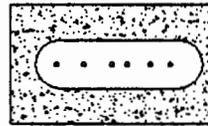
MAINT. SHOP

CHAIN LINK FENCE

BOTH TANKS REMOVED ON
10/30/96 BY:
ENGINEERING TECHNOLOGIES
ASSOCIATES, INC.

ENGINEERS * PLANNERS * SURVEYORS

3488 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MARYLAND 21043
BALTO. 410-9220 WASH. 410-4800



1500 GAL UST
PAD 7' X 11'

13'

8'

ARMY RESERVE CTR.
BUILDING

DESIGNED	_____	DATE	_____
RAWN	R.G. 11/5/96	DATE	_____
CHECKED	_____	DATE	_____
APPROVED	_____	DATE	_____

**ENGINEERING TECHNOLOGIES
ASSOCIATES, INC.**
ENGINEERS * PLANNERS * SURVEYORS
3488 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MARYLAND 21043
BALTO. 410-9220 WASH. 410-4800

BLOOMSBURG USARC AS BUILT DRAWING	
SCALE: NA	DATE 11/5/96
CONTINUED ON SHEET 05-D-0106	SHEET: _____

APPENDIX E

**ENGINEERING TECHNOLOGIES ASSOC., INC.
UST CLOSURE REPORT FORM**

Prepared by: Robert Gribben Date: 11/5/96
 Owner Name: Facility Egr. - Ft. Indiantown Facility Name: Bloomsburg USARC
 Address: 1119 Utility Rd. Annville, PA Address: 1469 Old Berwick Rd. Bloomsburg, PA
 Contact Person: Mr. Jim Troese Contact Person: Mr. Carpenter
 Telephone No.: (717) 782-3750 Telephone No.: (717) 784-4746
 ID No. _____ ID No. _____

Description of UST

Tank No.	1	2					
Contents	#2 F/O	#2 F/O					
Capacity (gal.)	1500	550					
Material (steel, etc.)	Steel	Steel					
Contents volume (gal.)	1,100	500					
Installation Year	1959	UNK					

Closure Method

Removal	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
Abandon in Place	<input type="checkbox"/>	<input type="checkbox"/>					

Samples

# tank content sample	0	0					
# pit soil samples	3	2					
# stockpile soil sampl	1	1					
# wash water samples	-	-					
# groundwater sample	-	-					

Contamination Information

Depth to groundwater (feet) —
 Groundwater contamination (Y?N) —
 Soil contamination quantity (cy) 0
 Describe excavated soil (sandy, clay, etc.) Sandy + Rocky
 Other pertinent information: _____

Remediation Actions

Soil Transportation (by whom) —
 Soil disposal (operator & location) —
 Soil Treatment (where/method) —
 Groundwater treatment method —
 Effluent discharge location —
 Monitoring wells (Qty., depth & diameter) —
 Wash water Transportation (by whom) —
 Wash water disposal (operator & location) —
 Wash water treatment method —
 Tank contents transportation (by whom) Hazleton Oil
 Tank contents disposal (operator & Location) Lancaster Oil - Lancaster, PA
 Tank content Recycling (operator & Location) Lancaster Oil - Lancaster, PA

**OIL/WATER SEPARATOR SURVEY
REPORT**

FOR

99TH RSC CUSTOMER SUPPORT TEAM #1

Prepared by:

**Horne Engineering Services, Inc.
2750 Prosperity Avenue, Suite 450
Fairfax, VA 22031-4312**

JANUARY 24, 2001

**OIL/WATER SEPARATOR SURVEY
99TH RSC CUSTOMER SUPPORT TEAM #1**

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Appendix B	Wash Rack and Oil/Water Separator Demo's and Upgrades, Description of Work, For Cost Estimate Preparation
Appendix C	Determination of Estimated Costs

OIL/WATER SEPARATOR SURVEY
99TH RSC CUSTOMER SUPPORT TEAM #1

In accordance with DACW65-99-D-0080, Order 0011, Horne Engineering Services, Inc. (Horne Engineering) conducted oil/water separator surveys for the 99th RSC CST #1. Twenty-six locations with oil/water separators or interceptors were surveyed by Horne Engineering between October and December 2000, to establish the compliance status with Federal and state regulations, and review the operational condition of the equipment.

A summary of the survey results by location is contained in Table 1. The survey synopsis (Table 2) provides roll-up information gathered, including counts of various activities and equipment. Table 3 provides a rough cost estimate, by location, to upgrade or close wastewater sources and treatment systems. Appendix A contains the site-specific survey reports for each location visited. Appendix B provides a generic description of the construction activities listed in Table 3. Appendix C is the spreadsheet used to develop the costs contained in Table 3.

Listed below are general descriptions of the survey results and generic recommendations. Site specific recommendations are contained Appendix A.

Type of Separators/Interceptors

The primary system utilized to treat oily wastewater by the surveyed Army Reserve facilities is an oil interceptor. There are four types of interceptors currently in use:

- (Wade Interceptor) Hydrafilter Oil Interceptor, Wade Division, Tyler Pipe, Tyler Texas. Eight Wade units are currently in use. This interceptor is a rectangular metal box insert that may be located in a manhole or a concrete vault. The holding capacity of this type of system is approximately 25 gallons.
- (Modified Wade Interceptor) Two modified Wade units are in use. This configuration consists of a standard Wade interceptor with a side concrete box. This box apparently was added after the original interceptor was installed and usually only has a cleanout and a vent. The purpose of the box is assumed to provide additional detention time for the wastewater.
- (Jasom) Jasom Cascade Oil Interceptor. Three Jasom units are in use. Unlike the Wade interceptor, the Jasom is not an insert, but an interceptor actually built into the wastewater line. The configuration is primarily rectangular with a diamond shaped effluent structure.
- (Smith) Smith Interceptor. Only one Smith unit was in use. Resembles the Jasom in size and configuration.

The “Multiservice Oil/Water Separator Guidance Manual” does not recommend the use of interceptors to treat oily wastewater. Interceptors are not capable of treating the high volume, wash rack wastewater to the degree necessary to meet associated discharge requirements contained in municipal sewer use ordinances. Interceptors have minimal treatment capacity, no sediment or oil storage capacity, and require continual maintenance.

All interceptors should be removed or replaced with appropriately sized standard gravity separators. These separators are easy to operate; have adequate capacity to store used oil and sediment for an extended period of time; and are capable of meeting typical sewer use ordinance discharge limitations for total petroleum hydrocarbons or oil & grease.

Most of the remaining treatment systems were standard American Petroleum Institute (API) gravity oil/water separators. A cursory hydraulic evaluation was conducted on the separators, based on a minimum detention time (45 minutes) and a loss of treatment capacity due to sediment accumulation (25%). Several of these separators were found to have limited hydraulic capacity and require further evaluation if they are to be utilized.

Generic Recommendations:

- All interceptors should be closed. If oily wastewater sources cannot be eliminated, an appropriately designed oil/water separator should be installed.
- Any new separator that discharges to a sanitary sewer should not require coalescers.
- The hydraulic capacity of the existing separators should be reviewed against the wastewater needs of the installation to ensure proper sizing.
- Low-flow, hot-water pressure washers should be considered (wastewater flows of 2 to 4 gallons/minute range) to reduce hydraulic loading to the certain oil/water separators. This may also negate the need for detergents. (Individual costs are not listed in the site-specific reports contained in Appendix A, but are estimated by the 99th RSC to be \$6,000 per unit.)
- If detergents are required for spot cleaning, a quick-release detergent, compatible with oil/water separator treatment, should be used. This is currently being implemented at several of the facilities reviewed.

Sources Discharging to the Separators/Interceptors

The primary discharge sources to separators/interceptors are wash racks. The secondary sources to the separators/interceptors are maintenance area floor/trench drains. Other sources noted during the site visits were: a fueling area (1), sink (1), clothes washer (1), air compressor condensate (1), acid neutralization pit (1), and a 55-gallon drum that is used for hand washing.

Generic Recommendations:

- Only oily wastewaters should be discharged to a separator.
- If maintenance area floor drains or trench drains are not absolutely necessary, they should be closed.
- Soaps, detergents (other than quick-release), or solvents should not be discharged to a separator.

Wash Rack Conditions

The majority of the wash racks are constructed such that runoff is not a concern. Only three locations require modification or closure due to runoff.

Curbing to control the release of wash water to the environment is required at nine locations. Another noted condition is the separation of the curbing from the wash pad, which could allow the discharge of wash water to the soil. Sealing of the curb separation is suggested.

Seven wash pads were cracked and should be sealed to prevent wash water losses to the soil.

At least four wash racks were too small to fully contain vehicles being cleaned. Two of these systems will probably be closed, the other two should be upgraded.

The wash rack drains vary in size. Some drains (particularly serving engineer units) have problems with solids clogging. No particular recommendations are provided, but upgrading the drain system is highly suggested.

Two wash racks have the capability to divert storm water collected on the wash pad to a storm sewer system. These systems do not have a standard shutdown procedure; therefore, residual materials (oily sediment) were noted in the wash rack drains that should not be released to the storm sewer.

Generic Recommendations:

- All wash racks that are not absolutely necessary should be closed.
- All facilities with wash rack storm water diversion systems should develop, and strictly adhere to, a shutdown SOP.
- Runoff should be prevented from entering the wash rack.
- Curbing should be such that all wash water is contained and discharges to the separator.
- Separation between the wash pad and the curbing should be sealed.
- Cracks in the wash pad should be sealed.
- Wash racks should be long enough to fully contain the largest vehicle that will utilize the pad.

Separator Discharge Location

Separators/interceptors in all but four facilities discharge to the sanitary sewer. Of those four locations, three are recommended for closure (including a potential dry well) and the fourth requires upgrade if it is to be used. Upgrading the separator could include diverting the discharge to the sanitary sewer. Another system discharges to a storm sewer yard drain, but the yard drain discharges to a municipal sanitary sewer. One system discharges to an on-site sewage treatment system.

One separator has a hole in the side which would allow the release of oily wastewater to the environment.

Generic Recommendations:

- The majority of the separators/interceptors discharge to sanitary sewers. The individual sites should review the associated municipal sewer use ordinance to ensure that any pretreatment/discharge requirements are being met.
- Wash racks with storm water diversions should develop and adhere to a shutdown SOP to ensure that industrial wastewater is not discharged to the storm sewer (previously listed).
- Wastewater discharges to storm sewers should be eliminated.
- Separators should be water tight to prevent the loss of oily wastewater to the environment.

Separator Used Oil Storage Tanks

Of the 28 wastewater treatment systems surveyed, only two systems actually had or were suspected of having a separate used oil storage system. One separator had an oil skimmer. The used oil from this rope skimmer is collected in a 55-gallon drum. A second location had a potential used oil underground storage tank (UST) associated with an interceptor (the potential UST and the interceptor are recommended for closure).

Separator Maintenance

The majority of the separators/interceptors inspected by Horne Engineering, were pumped down by Waste-Tron in 1996. Other than that activity, scheduled maintenance is generally not conducted. The one recycling system is pumped down when the smell (petroleum) of the wastewater becomes too strong. (It should be noted that the recycling system itself is not on a maintenance program.) A larger system which has a sedimentation basin prior to the separator, is pumped down when the basin fills with solids. The skimmer used in this system does receive maintenance on a regular basis.

Generic Recommendations:

- A site specific maintenance program should be developed for all oil/water separators, which should include a maximum allowable sediment depth and oil thickness in the separator.
- Recycling systems should not only have a separator maintenance program, but a scheduled maintenance program on the equipment used to treat the recycled wastewater.

Storm Water Permits

Of the 26 locations visited, eight sites may require storm water permits. The sites that would require permits are those that primarily conduct maintenance on, or store large numbers of, vehicles. These types of facilities are AMSA shops (3) and ECS (1). Other

conditions that may warrant permitting are: groundwater drainage systems, tracked vehicle maintenance (exterior), and waste handling and storage.

Generic Recommendations:

- Written justification and necessary corrective actions should be developed for those locations which anticipate claiming an exclusion to storm water permitting. (This may be done in-house.)
- Those facilities which may not seek an exclusion should immediately develop a PPC plan and file an NOI.
- The development of an SOP for drip pan usage and associated waste handling is necessary for all facilities.
- Guidelines should be developed concerning the type (lid and sealed drain) and use (lid closed) of dumpsters and the exterior handling and storage of materials/wastes.

Other Issues Noted During Site Visits

While on-site, issues not related to oil/water separators, were noted by Horne Engineering.

Generic Recommendations:

- The sewage pump station diversion system to the storm sewer should be evaluated and permitted, if necessary.
- Suspected underground storage tank locations should be investigated. Residual equipment associated with previous closures should be removed. Closure documentation should be located and stored at the installation.
- Unless required, all battery room floor drains should be sealed and the acid neutralization pits appropriately closed.
- Can washes that are not necessary should be closed.
- Former drainfields that may have received industrial wastewater should be investigated.
- In-ground hydraulic lifts should be appropriately closed.
- Flammable storage rooms should be reviewed concerning hazardous waste storage, material compatibility, accessibility, and operational status.
- Solvent parts cleaning stations that are not necessary should be eliminated.
- Empty fuel tankers that are not necessary should be eliminated from the vehicle inventory.
- Grease traps and other wastewater tankage should be regularly cleaned to prevent line blockage.
- Unnecessary grease racks should be dismantled.

- Older vehicles (peeling paint and leaks) should not be stored at facilities, unless required for the mission.
- Exterior storage of materials and wastes should be tightly controlled or eliminated.
- Agreements should be obtained with tenant organizations (Marine Corps) to better control the potential environmental liability and regulatory issues associated with their activities.

TABLE 1 - SUMMARY OF OIL/WATER SEPARATOR SURVEY REPORTS – 99TH RSC CUSTOMER SUPPORT TEAM #1
(October through December 2000)

Facility	Separator Type	Discharge Location	Wash Rack	Storm Water Exclusion Potential	Recommendation Separator	Recommendation Wash Rack	Other Issues
Altoona	1 Interceptor (Jasom type) 2 Wade interceptor with upgrade (inactive)	Storm - assumed	None	Moderate-to-high (sheen on runoff)	Close both interceptors and seal maintenance floor drains.	N/A	Potential used oil UST (vent and fill pipe), additional UST vent pipe, potential pretreatment system near the kitchen/boiler area.
Ashley	Gravity separator – cylindrical (may be sand trap)	Sanitary	Curbed 3 sides, 18.5' x 35'	High	If wash rack is closed, seal maintenance floor drains and close separator. If wash rack is active, verify "T" discharge or install "T". Verify adequate hydraulic capacity (14 gallons/minute).	If not needed, close. If needed, install curbing on 4 th side.	In-ground hydraulic lift, can wash, flammable room, exterior waste storage, solvent parts cleaner, spalling concrete at pump station
Bellefonte	API	Sanitary pumped, may go to drainfield during pump failure	Curbed	Moderate-to-high	Close	Close	Drainfield
Bethlehem	Wade Interceptor	Sanitary	Curbed (6-in) 4 sides 15' x 30'	High	Close	Close	None
Bloomsburg	Dry well - potential	Unknown	No curbing, 14.75' x 30'	High (with site modifications)	Close	Close	Unpaved parking areas, gas cylinders
Bristol	API – small	Sanitary	Curbed 4 sides, 16' x 25'	Low (construction debris)	Convert to sediment trap, add downstream separator. Interim, put "T" on effluent or insert baffles.	Improve sediment collection. Limit size of vehicles or (preferred) install new wash rack.	Construction debris, separator solids disposal, hand wash drum, can wash/grease trap, grease racks (2), refrigerator, water fountain

Facility	Separator Type	Discharge Location	Wash Rack	Storm Water Exclusion Potential	Recommendation Separator	Recommendation Wash Rack	Other Issues
Brookville	Interceptor (no openings)	Storm - probable	Curbed	Low (dozer parking and maintenance)	Replace with separator if wash rack is needed, otherwise close.	Close if not needed. If needed, existing small drain may create a solids problem.	Maintenance floor drains, dozer parking and maintenance, can wash
Chambersburg	Wade Interceptor	Sanitary	Curbed (6 in.) 4 sides 15 1/4' x 30'	High	Replace interceptor with separator if wash rack is needed, otherwise close.	Close if not needed, otherwise, no improvements required.	None
Edgemont	API	Recycled	(2) Curbed 3 sides, 14.5' x 24'	Low (AMSA shop)	Place "T" influent and effluent pipes. Also put "T" s on effluent from two septic tanks.	Close one wash rack. Additional curbing and sealing pad on other. Limit size of vehicles, or install new wash rack.	Maintenance trench drains, battery room, drainfield, hydraulic lift, grease rack, day tanks, excessive number of fuel tankers
ECS #24	(1) API (2) API	(1) & (2) Sanitary	Protected on 3 sides 45' x 120'	Low (ECS)	Increase maintenance. (1) Seal hole, revise influent, review hydraulic capacity (2) Review hydraulic capacity (washing and rain events)	Seal pad and evaluate current wash procedures to prevent release, curb fueling area	Acid neutralization pit (under investigation by 99 th), unpaved parking, dumpsters
Gettysburg	Interceptor (flooded with sewage)	Sanitary	No curbs, minimal slopes 14.5' x 30'	High	Replace interceptor with separator if wash rack is needed, otherwise close.	Close if not needed and connect water fountain drain to sanitary sewer. If needed, install curbing on 4 sides.	Sewage backup into separator vault and wash rack drain, water fountain discharge.
Harrisburg	API - two connected boxes	Sanitary	No curbing, minimal slopes 14.5' x 29'	High	Close (not used). If not closed limit flows.	Close. If not closed, curb all sides.	Potential UST (vent and fill pipe), oil dumping in separator
Horsham	Jasom Interceptor	Sanitary	Curbed 4 sides 15' x 30'	Moderate-to-high (with site improvements)	Replace with separator if wash rack is needed, otherwise close.	Close, if not needed. If needed, seal curbing, move sink discharge.	Solid waste and material handling, leaking fire hydrant, sink discharge to wash rack, unlabeled transformer
Lancaster	Wade Interceptor with box	Sanitary, w/ diversion to storm	Curbed 3 sides good slopes 18.5' x 40'	High (except for diversion)	Replace interceptor with separator if wash rack is needed, otherwise close.	Close if not needed, otherwise, no physical improvements required. Develop shutdown SOP.	Can Wash

Facility	Separator Type	Discharge Location	Wash Rack	Storm Water Exclusion Potential	Recommendation Separator	Recommendation Wash Rack	Other Issues
Lewisburg	API	Sanitary, via on-site pump station	No curbing	Low-to-moderate (water table drainage system)	Close if wash rack is closed. If used, review against flows, as capacity is approximately 12.5 gpm.	Close if not needed. If needed, curb all sides.	Unnecessary UST, water table drainage, maintenance floor and trench drains, can wash, material/waste handling
Lewistown	API	Sanitary	Curbed 2 sides, 20' x 36'	High (with wash rack improvements)	Close if wash rack and trench drains are closed. (If used evaluate structural stability.)	Close if not needed. Otherwise seal existing curbs and curb 3 rd side.	Acid neutralization pit, can wash, parts cleaning stations (2), clothes washer
Lock Haven	Wade Interceptor	Sanitary	Curbed, 19' x 35'	Low (AMSA shop)	Close, as interim measure install "T" influent and effluent in sand trap. Install new separator, if wash rack is used.	Seal wash pad. Close maintenance trench drains if not necessary.	Acid neutralization pit, can wash
Norristown	No separator could be located	On-site sanitary pump station	No curbing, 14.75' x 30'	High (following erosion controls)	N/A	Close	Sewage pump station control panel and storm water discharge, UST vent and fill pipes and closure report, erosion, can wash
North Penn	API - small	On-site, sewage treatment plant	Curbed 4 sides 16' x 23'	High (not including Nike site)	Close	Close	Grease rack, transformers
Reading	API with 2 boxes	Sanitary with diversion to storm	(2) Curbed 2 sides each, 18'8" x 37'6"	Low (AMSA shop)	(Option) Investigate reason for no free product.	Curb 1 side, develop shutdown SOP	Acid neutralization pit, unpaved parking, exterior battery storage
Schuylkill Haven	Smith Interceptor	Sanitary	No curbs, good interior slopes, runoff from parking area, solids clogging 20' x 36'	Moderate-to-high (erosion)	Close interceptor and replace with separator	Curb 4 sides, (option) improve solids handling	Abandoned UST, erosion

Facility	Separator Type	Discharge Location	Wash Rack	Storm Water Exclusion Potential	Recommendation Separator	Recommendation Wash Rack	Other Issues
Scranton	Wade Interceptor	Sanitary thru storm	Curbed 4 sides 14.75' x 30'	N/A – discharges to sanitary sewer. Moderate (if required)	Close and replace with separator (if required)	Seal wash pad	Runoff to sanitary system, exterior waste/material storage, air conditioner condensate
State College	1 Wade - wash rack 2 API – trench drain	Sanitary	Roofed	High	1 Wade (close) 2 API (use for wash rack, if practicable or close, if allowed) May need new separator for wash rack	Close (if not necessary)	Acid neutralization pit, former drainfield
West Hazleton	Wade Interceptor	Storm - potential	Curbed 3 sides, 15' x 30'	High	Close	Close	Flammable storage room, sewage discharge location
Williamsport	Wade Interceptor	Sanitary	Curbed 2 sides 16.5' x 24.5'	High	Close	Close	Potential UST fill pipe, old vehicles, metal storage bins
Woodhaven	Jasom Interceptor	Sanitary	(2), fully curbed, 15' x 30'	Moderate-to-high (Marine activity)	Close interceptor, install separator	Close one wash rack, seal curbing and pad on open wash rack	Vent for closed UST, upgrade AST, material storage and handling, peeling paint on penthouse

TABLE 2 - SYNOPSIS OF FACILITY SURVEYS

Locations Inspected: 26

Separators/Interceptors:

Oil/Water Separators: 12 (Bristol, North Penn, and Lewisburg systems have limited capacity)

Oil/Water Interceptors: 15

Potential Dry Well: 1 (Bloomsburg)

Locations w/out Separators/Interceptors: 1 (Norristown)

Wash Racks:

Number of sites w/out wash racks: 1 (Altoona)

Number of sites with two wash racks: 3 (Edgemont, Reading, Woodhaven)

Wash racks proposed for closure: 11 (Bellefonte, Bethlehem, Bloomsburg, Edgemont (1 of 2), Harrisburg, Norristown, North Penn, State College, West Hazleton, Williamsport, Woodhaven (1 of 2))

Discharge Locations:

Sanitary: 22

Number of which that can divert to storm: 2 (Lancaster, Lewisburg)

Recycle: 1 (Edgemont)

Storm (assumed): 4 (Altoona (2), Brookville, West Hazleton)

Potential dry well/unknown: 1 (Bloomsburg)

Potential of Storm Water Permit Exclusion:

High: 13

Moderate-to-high: 5

Low-to-moderate: 1 (Lewisburg)

Low: 6 (Bristol, Brookville, Edgemont, ECS #24, Lock Haven, Reading)

Not applicable: 1 (Scranton discharges to sanitary sewer, moderate potential, if required)

Acid Neutralization Pits/Battery Rooms:

6 (Edgemont, ECS #24, Lewistown, Lock Haven, Reading, State College)

Can Washes:

8 (Ashley, Bristol, Brookville, Lancaster, Lewisburg, Lewistown, Lock Haven, Norristown)

USTs and Potential USTs:

Vent (only): 2 (Altoona, Woodhaven) NOTE: Woodhaven has UST closure documentation.

Fill pipe (only): 1 (Williamsport)

Vent and fill pipe (or clean-out): 3 (Altoona, Harrisburg, Norristown)

UST (abandoned, filled with water): 1 (Schuylkill Haven)

Unnecessary Registered UST: 1 (Lewisburg)

OIL/WATER SEPARATOR SURVEY REPORT
99th RSC CUSTOMER SUPPORT TEAM #1

Date of Inspection: November 2, 2000

Facility Information

Facility Name: (FAC ID PA009)
BLOOMSBURG USARC
1469 OLD BERWICK ROAD
Bloomsburg, PA 17815-3027

Phone #: (570) 784-4746

Fax#: (570) 784-0245

Tenants:

Section I - Separator Information

Location: Behind wash rack, outside of fence, under a grate in a grassed area

General Areas Served: The wash rack

Manufacturer's Information: None

Type of Separator:	An iron pipe located under a vent cap. The pipe stopped within a wider structure. The structure contained no liquid. It had sediment on the bottom at a depth of 9.5 ft. The sediment did not have a petroleum smell. A concrete bottom was not encountered. This system was installed before the building was connected to the sanitary sewer. The system could be a septic tank and drainfield, a dry well, or may have discharged to a sanitary sewer located elsewhere.
Date installed:	Unknown
Status:	Inactive, wash rack is not used.
Elevation of Separator:	Underground
Configuration:	Unknown
Construction Material:	Unknown
Wastewater treatment prior to separator:	Sand trap at wash rack.
Effluent/discharge structure:	Unknown
Oil Skimmer Type:	None
Accessibility:	A six-inch iron pipe

SEPARATOR DIMENSIONS (NOTE: All dimensions are interior.)

Length: __ Depth (from top of tank): 9.5 ft.
Width: __ Freeboard (liquid surface to top of tank):
Operational volume: N/A

Waste-Tron Information - March 1996
 Bloomsburg USARC
 Does not have a wash rack or OWS

USED OIL STORAGE - Evaluated only if Tank Serves Separator

Used Oil Storage Serving Separator:	N/A, no separate oil storage tank.
Configuration comments: The wash rack has not been used in years. The wash rack discharged to an unidentified structure with a 9.5 ft. depth. The discharge point from the structure is unknown, and may be a dry well. The sediment in the structure does not have a petroleum smell.	

SECTION II - OPERATION & MAINTENANCE:

Frequency of maintenance and inspections	No maintenance is conducted on this system.
--	---

SECTION III - COMPLIANCE:

Effluent Discharge: It is unknown what the structure is and where it discharges.
 Bypass/Overflow/Storm Water Diversion discharge location(s): None apparent
 Current CWA permits: None
 UST/AST/RCRA compliance comments: N/A, no separate used oil tank.

SECTION IV - INDUSTRIAL WASTEWATER SOURCES TO THE SEPARATOR

Description of Sources

Activity	Description	Comments
Wash Rack	A 30 ft. x 14.75 ft. wash rack without curbing, that has not been used in years.	

SECTION V - RUNOFF SOURCES TO SEPARATOR

Activity	Description	Comments
Wash Rack	Only incident rainfall	

SECTION VI - STORM WATER PERMIT

Runoff discharges: Sheet flow, no yard drains Filed NOI: No

Completed preparedness, prevention, and contingency (PPC) plan: No

Storm Water Permit Exclusion Review:

Condition	Description	Comments
Outdoor vehicles/equipment:	(Quartermaster) HMMWV's, forklift, fuel tanker (empty), fuel dispensing vehicles with up to 8 mounted tanks, trailer, water tank. Some staining under vehicles.	
Outdoor raw material:	MOGAS cans with staining.	
Outdoor waste and dumpsters:	Dumpster with lid	

Outdoor industrial activities:	None apparent	
Fueling operations:	None (on-site)	
Materials or residuals on ground/storm inlets	Some areas where vehicles are stored, are not paved.	
Visible deposits from roof stacks	None	

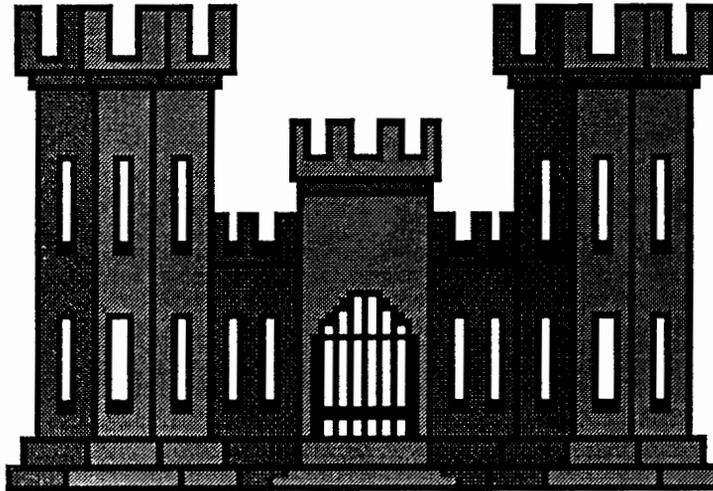
SECTION VII - SUMMARY

1. The site has one structure that received the discharge from the wash rack, which is not in use. The operation of the underground structure and its discharge location is unknown.
2. The structure does not appear to have a separate used oil tank.
3. The sediment has not been analyzed.
4. The structure receives no maintenance.
5. No known permits have been issued for the discharge, which may be to a dry well.
6. One source (wash rack) discharges to the structure.
7. Only incident rainfall on the wash rack discharges to the structure.
8. The site apparently has not filed an NOI related to storm water permitting.
9. The potential that the site could successfully request an exclusion, or make a determination that the facility is excluded, from storm water permitting is high, with certain modifications.

SECTION VIII - RECOMMENDED ACTIONS

Condition	Recommendation	Estimated Costs:
Wash Rack	The wash rack has not been used for years and should be closed.	<ul style="list-style-type: none"> • Mob/Demob: \$3,600 • Close the wash rack: \$13,200
Unidentified Structure that Receives Wash Rack Discharge	The system was probably installed in the 1950's. With the closure of the wash rack, this structure should be closed.	<ul style="list-style-type: none"> • Close the unidentified structure: \$15,000
Report Generation	Generate construction/closure reports (assumes no residual contamination)	<ul style="list-style-type: none"> • System closure reports: \$7,950
Storm Water Permit	The site has yard drains, but should be reviewed for potential exclusion from storm water permitting. If the exclusion cannot be justified, the following should be conducted: <ul style="list-style-type: none"> • Develop a Preparedness, Prevention, and Contingency plan. • File a Notice of Intent form or other storm water permit application as appropriate. 	<ul style="list-style-type: none"> • Review site and prepare exclusion documentation: \$2,750, or • Prepare NOI and PPC plan: \$6,000.
Other Issues:		
Unpaved Areas	Certain areas where vehicles are parked are unpaved. It is suggested that these areas be paved (storm water).	
Chaining of 150# Gas Cylinders	Rather than chaining these gas cylinders, a rubber belt is used.	

**DEPARTMENT OF THE ARMY
UNITED STATES ARMY FACILITY ENGINEER GROUP
416TH ENGINEER COMMAND
10 S.100 SOUTH FRONTAGE ROAD
DARIEN, IL 60561-1780**



**ENGINEERING AND ENVIRONMENTAL
FACILITY ASSESSMENT**

For

Bloomsburg USAR Center

Bloomsburg, Pennsylvania
Facility I.D. No. PA009

Date of Visit: 31 MAY – 1 JUN 2001

PREPARED BY:

**FACILITY ENGINEER GROUP (416th ENCOM)
FACILITY ENGINEER CENTER - NORTHEAST**

**FORT INDIANTOWN GAP
FACILITY ENGINEERING TEAM
Annville, Pennsylvania
3 JUN 2001**

SECTION 1 - EXECUTIVE SUMMARY

INSTALLATION NAME: BLOOMSBURG USAR CENTER
 INSTALLATION NUMBER: PA009 DATE: 31 MAY – 1 JUN 2001

1. The Ft. Indiantown Gap Facility Engineer Team (Team) conducted an Engineering and Environmental Facility Assessment (E2FA) for the Bloomsburg USAR Center on 31 MAY – 1 JUN 2001. The center consists of two buildings; the main single story building (approximately 3,812 SF) and one-bay OMS (approximately 1,152 SF). Both buildings are constructed of concrete block and brick veneer originally constructed in 1956 (Main Building) and 1965 (OMS). The center capacity is 25 man, however the unit greatly exceeds this capacity. There is a POV parking area and a fenced MEP. The size of the entire site is approximately 2.1 acres. The center is surrounded by residential properties on all sides. The facility is occupied by the following unit:

UNIT	Assigned Strength	Authorized Strength	Full-Time	
			Military	Civilian
814 th Quartermaster Co. (-)	65	117	5	1

2. Since its construction in 1956/1965, there have been several system upgrades/replacements, including; energy efficient windows and doors (Ca. 1990), central heating and air conditioning system (1990), suspended ceiling grid in hallways (1990), and exterior doors new trusses, and stone ballasted EPDM roofing on both buildings (Ca. 1990). The main building heating system is natural gas forced hot air with central air conditioning (2 of the 3 air handling systems). The OMS is heated by one (1) gas-fired unit heaters and one (1) natural gas infrared heater.
3. Environmental Compliance: The Environmental Compliance Assessment portion of the E2FA identified a total of 9 findings; 1 Class I, 4 Class III, and 4 Regulatory Health/Safety findings. The Class I finding relates to the existence of an out-of-service washrack without an oil/water separator, which drains to a leaching pit. A copy of the findings along with recommended corrective actions is attached as Enclosure A. This enclosure is also intended to serve as the facility's quadrennial external environmental assessment report.
4. Facility Condition Survey: An evaluation of the overall condition of the facility was performed in accordance with USARC Surveyor's User Manual dated July 1997, using the short (single-page) Facility Condition Survey form. A copy of the Facility Condition Survey is provided in Enclosure B, and a copy has been forwarded directly via e-mail to USARC-DCESENG.
5. Real Property Maintenance: The main building is constructed of concrete masonry unit (CMU) interior walls covered by brick veneer exterior walls with a concrete floor. The OMS consists of CMU interior walls and part brick veneer exterior walls with a concrete floor. The overall condition of the facility is very good. Most of the major building components have been well maintained or recently upgraded/replaced. Very few minor deficiencies were noted, as the facility is well maintained and very presentable.

6. During the site visit, the assessment team reviewed a summary of the RISER report, which contained previously submitted work orders. This RISER report summary has been annotated to reflect item validity of the requested work, resulting in verification of the total estimated cost of \$139,500. Additional new RPMA work estimated at \$40,100 was identified during the assessment. All real property maintenance information is contained in Enclosure C.
7. Arms Vault Certification: The center's arms vault was inspected and re-certified IAW AR 190-11, which requires such action be conducted by appropriate engineer personnel every 5 years. The DA Form 4604-R was updated and posted in the arms vault for review during physical security surveys. The arms vault inspection checklist and DA Form 4604-R are contained in Enclosure D.
8. EMAAR/Space Utilization: Details relating to the utilization of space at the center are contained in Enclosure E.
9. Ms. Amanda Beeghly and SFC Creswell were extremely helpful and cooperated in assisting the team with this visit. Their dedication and professionalism greatly simplified our team's ability to accomplish the mission.



DOUGLAS F. GARNER, PE
LTC, EN, USAR
FIG FET Team Leader

SECTION 2: FACILITY IDENTIFICATION

INSTALLATION NAME: BLOOMSBURG USAR CENTER

INSTALLATION NUMBER: PA009

STREET ADDRESS: 1469 Old Berwick Road

CITY/TOWN: Bloomsburg

STATE: PA

ZIP CODE: 17815-3027

RSC/RSG: 99th RSC

FACILITY TYPE:

A. USARC: X B. AFRC: ___ C. OMS: X D. FLIGHT: ___
E. DS/GS: ___ F. MED: ___ G. WET: ___ H. FLIGHT: ___
I. ECS: ___ J. CTF: ___ K. OTHER: ___

ASSESSMENT PERFORMED BY: Ft. Indiantown Gap FET

FACILITY ENGINEER TEAM INCLUDED:

LTC Doug Garner
MAJ John Holtzman
SFC Tom Byers

REFER TO FOR INFORMATION: LTC Doug Garner

Work: (607) 770-2696 Home: (607) 798-6650

PERSONNEL CONTACTED ON SITE:

NAME/GRADE	DUTY POSITION	PHONE NUMBER	E-MAIL
Ms. Amanda Beeghly	UA/Fac. Coordinator	(570) 784-4746	
SFC Calvin Creswell	Alt. Fac. Coord/Plt Sgt.	(570) 784-4746	
Ms. Kendra Borka	Environmental Specialist	(215) 443-1667	

ASSESSMENT CONDUCTED FROM: 31 MAY 2001/0930 TO: 01 JUN 2001/1200

DATE OF LAST ASSESSMENT: 4-5 FEB 1997

SECTION 3: FACILITY DATA

INSTALLATION NAME: BLOOMSBURG USAR CENTER

INSTALLATION NUMBER: PA009 DATE: 31 MAY - 1 JUN 2001

NUMBER OF BUILDINGS ON SITE: 2

GROSS SQUARE FEET OF BUILDINGS: 4,979 GSF

SQUARE YARDS OF PAVED AREAS:

MEP: 565 POV: 1,844 ACCESS ROAD: 507
SIDEWALKS: 255 TOTAL: 3,262

AREA OF GROUNDS: 2.1 A

IMPROVED: X UNIMPROVED: TOTAL:
FLOOD PRONE AREA: YES X NO ___ WETLANDS: YES ___ NO X

OWNERSHIP DATA:	ARMY	OTHER DOD	OTHER FED	LEASED	OWNER NAME (NON ARMY)
-----------------	------	--------------	--------------	--------	--------------------------

BLDGS:	X				
LAND:	X				

YEAR CONSTRUCTED: 1956/1965

AFRC:

AMSA:

YEAR OF LAST MAJOR IMPROVEMENTS: 1990

AFRC:

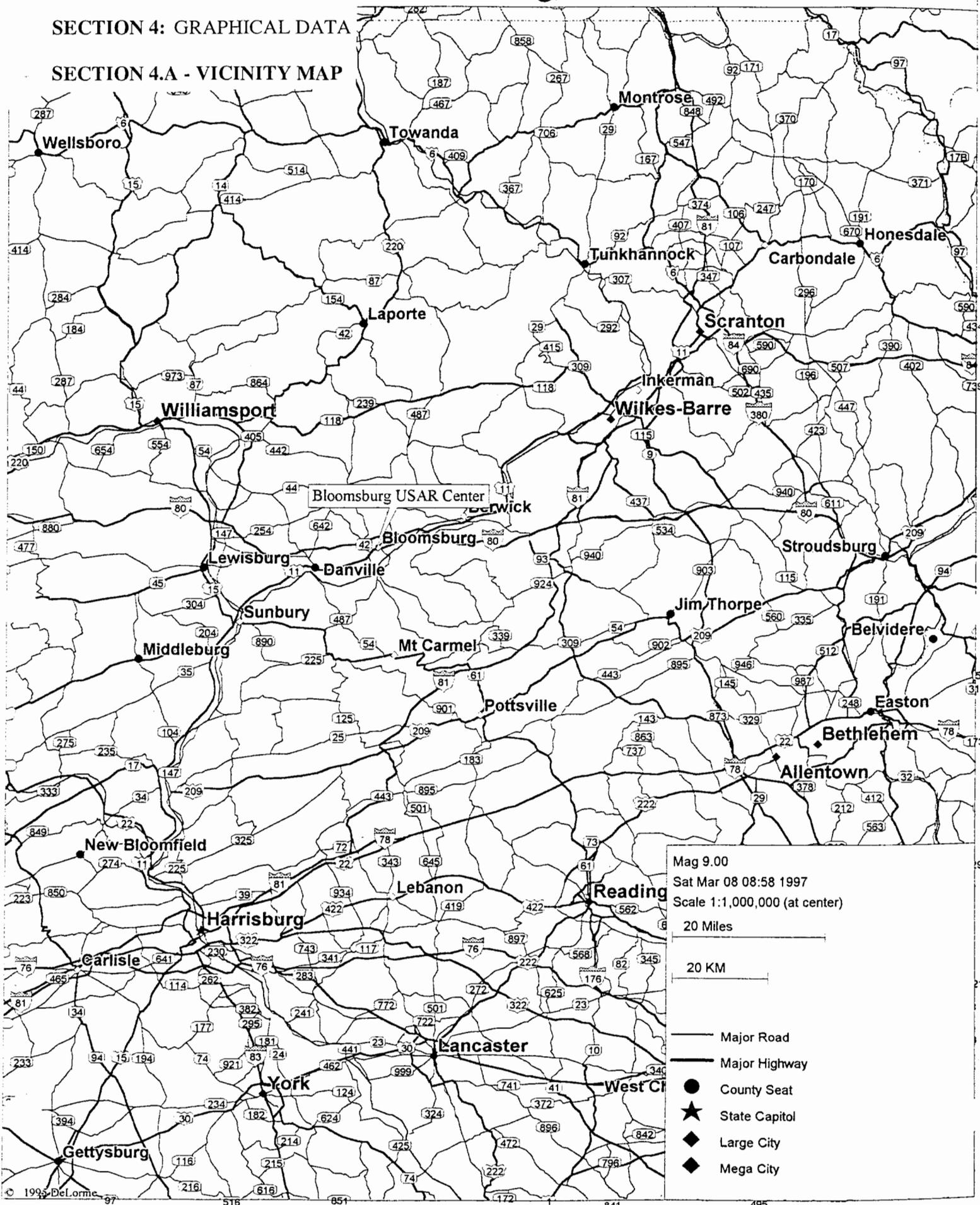
AMSA:

RECURRING NON-TRAINING ACTIVITIES: None

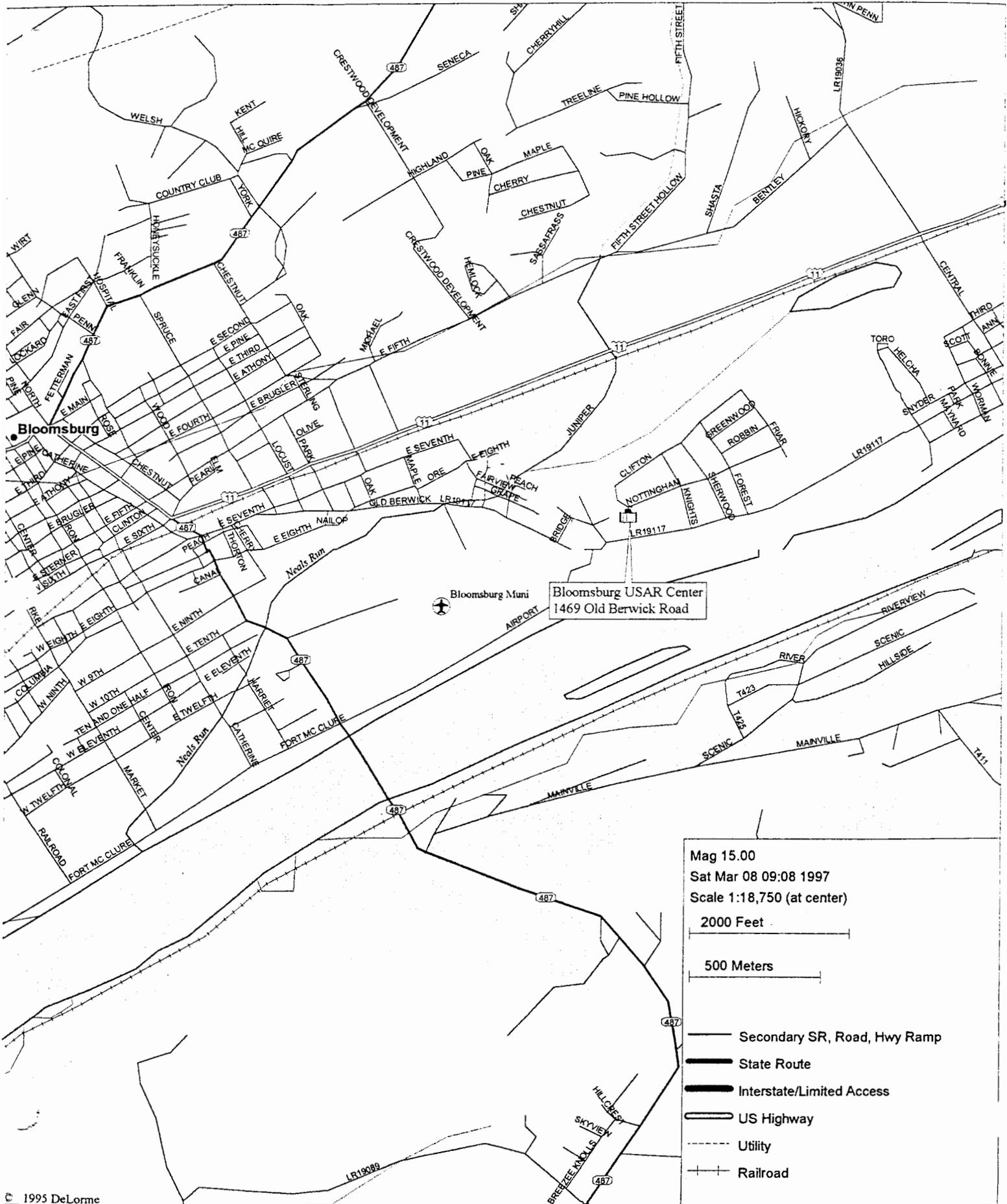
Bloomsburg, Pa

SECTION 4: GRAPHICAL DATA

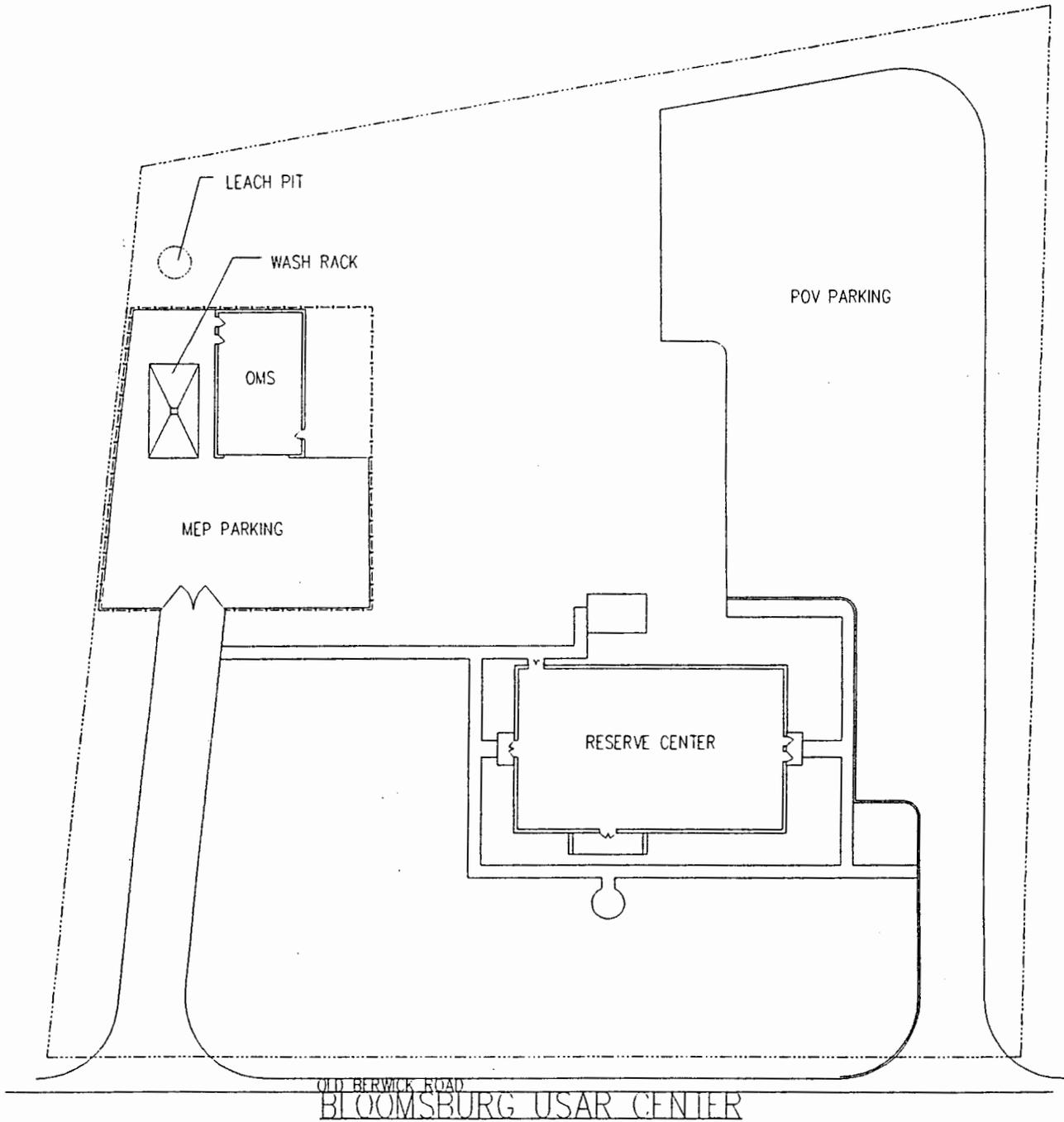
SECTION 4.A - VICINITY MAP



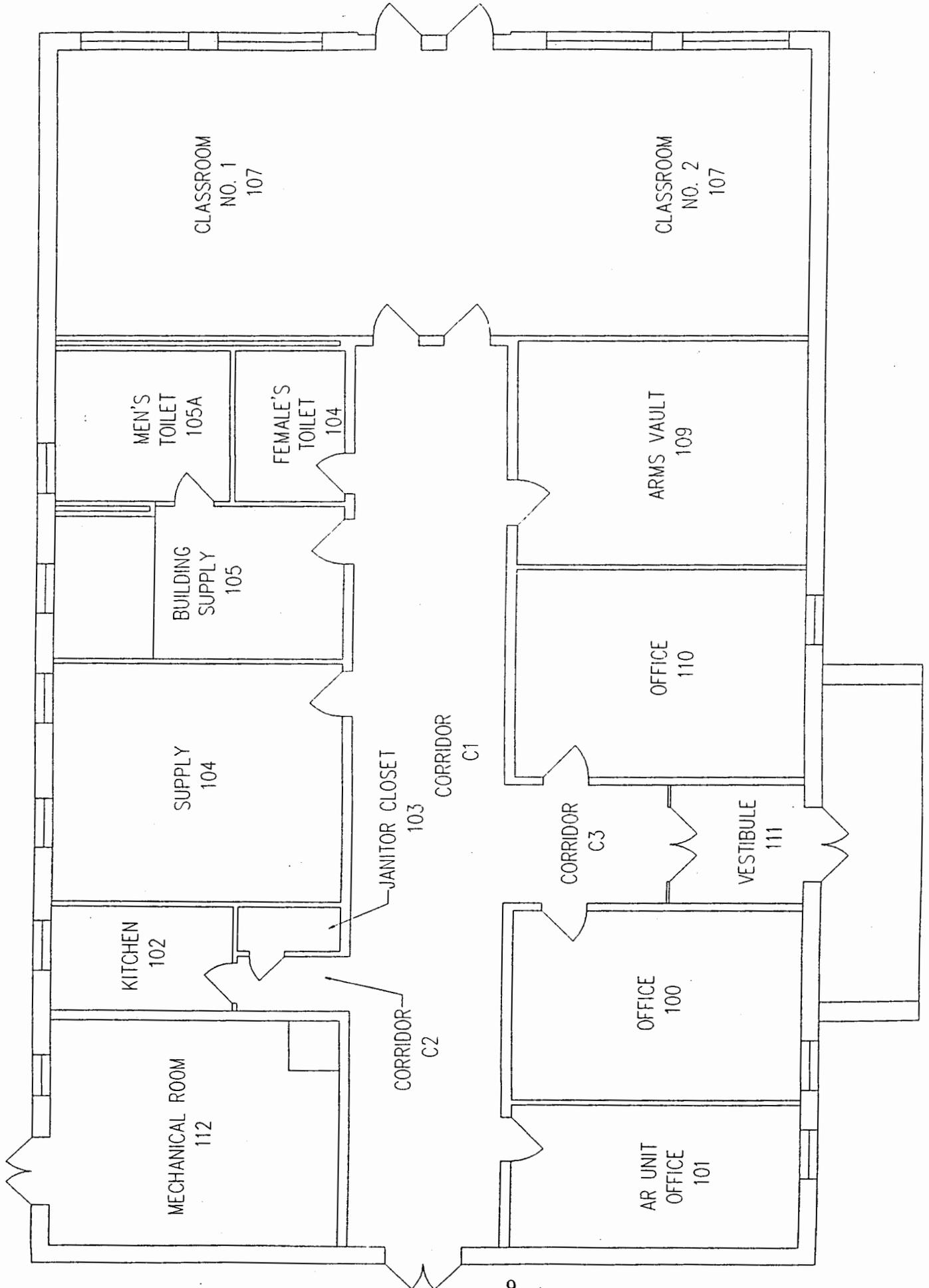
SECTION 4.B - LOCATION MAP Bloomsburg, Pa



SECTION 4.C - SITE MAP



SECTION 4.D - BUILDING FLOOR PLANS



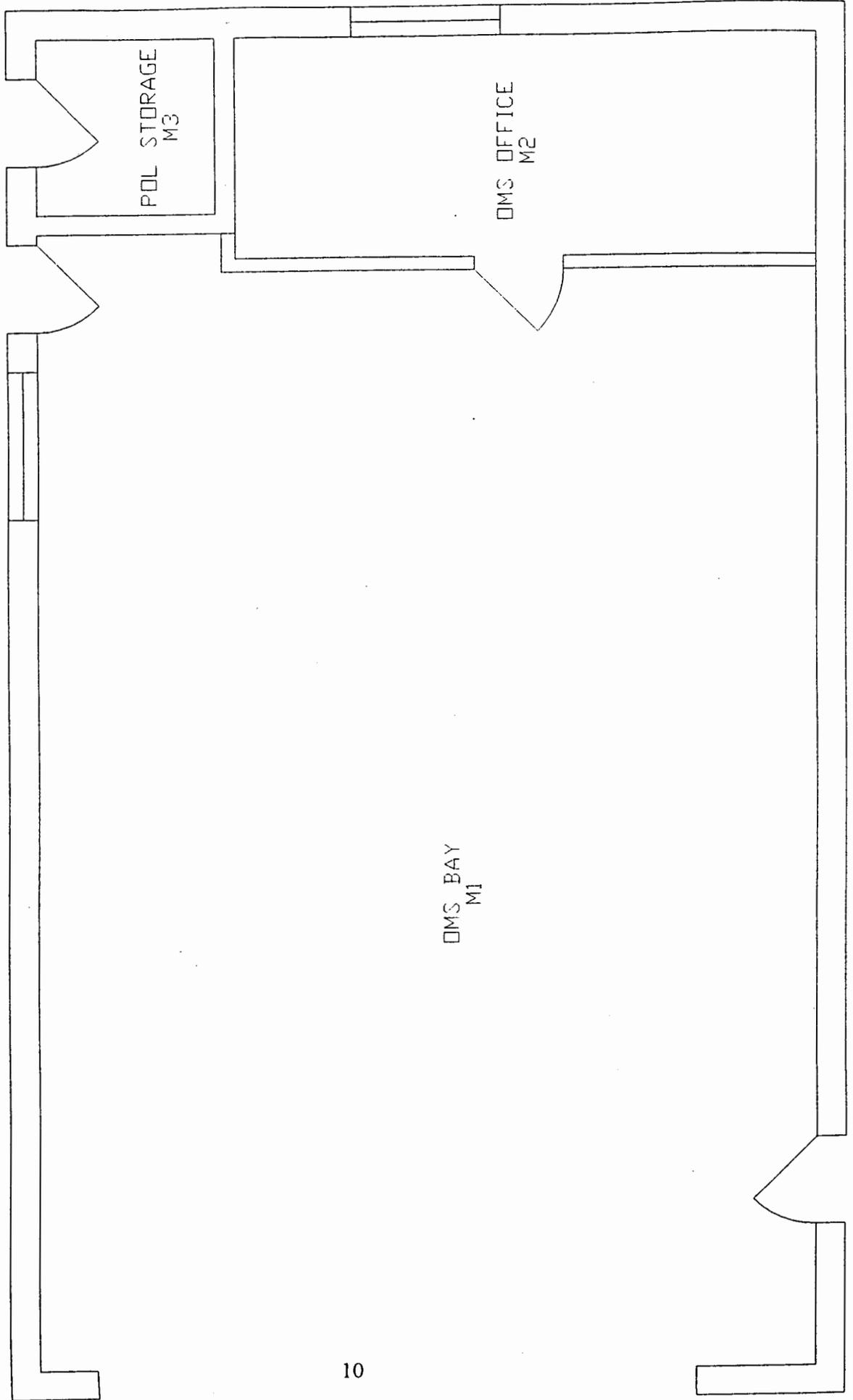




Photo 1: Front (South) elevation of Main Building on Old Berwick Road

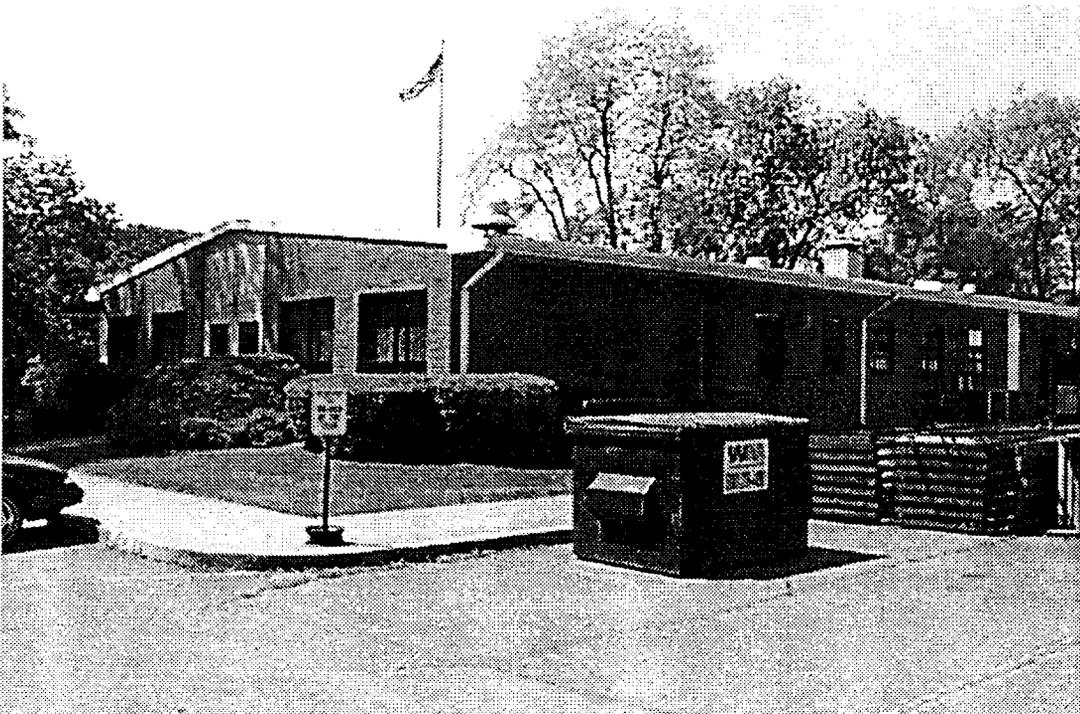


Photo 2: North and East elevations of Main Building

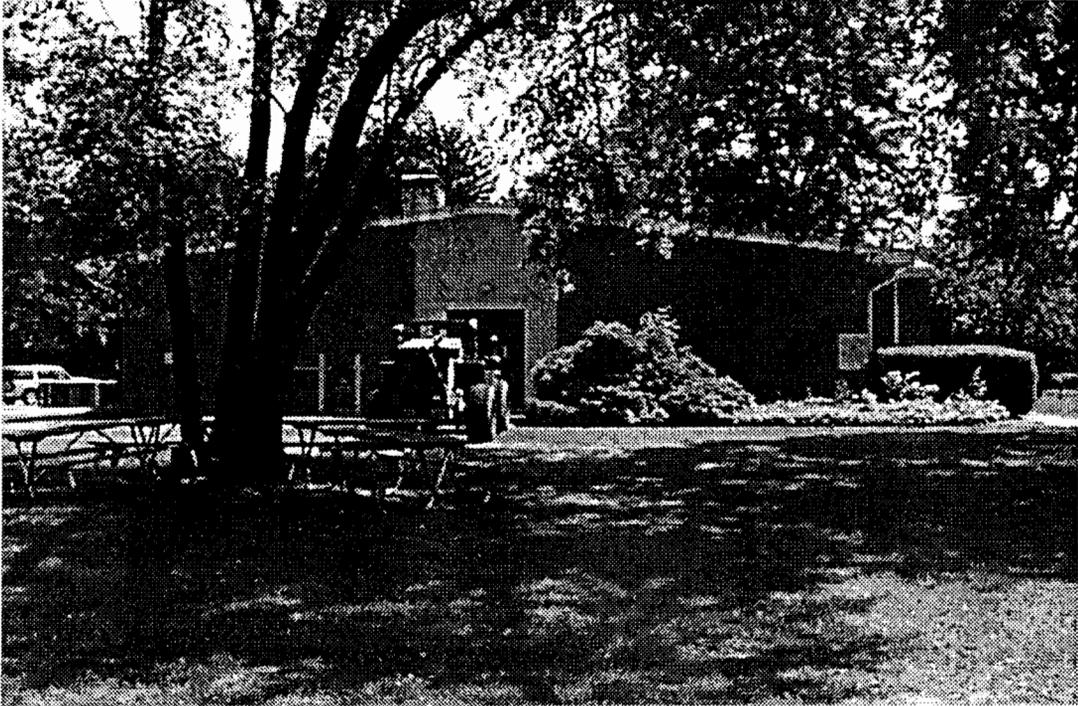


Photo 3: West elevation of Main Building



Photo 4: POV and overflow MEP north of Main Building from roof of Main Building

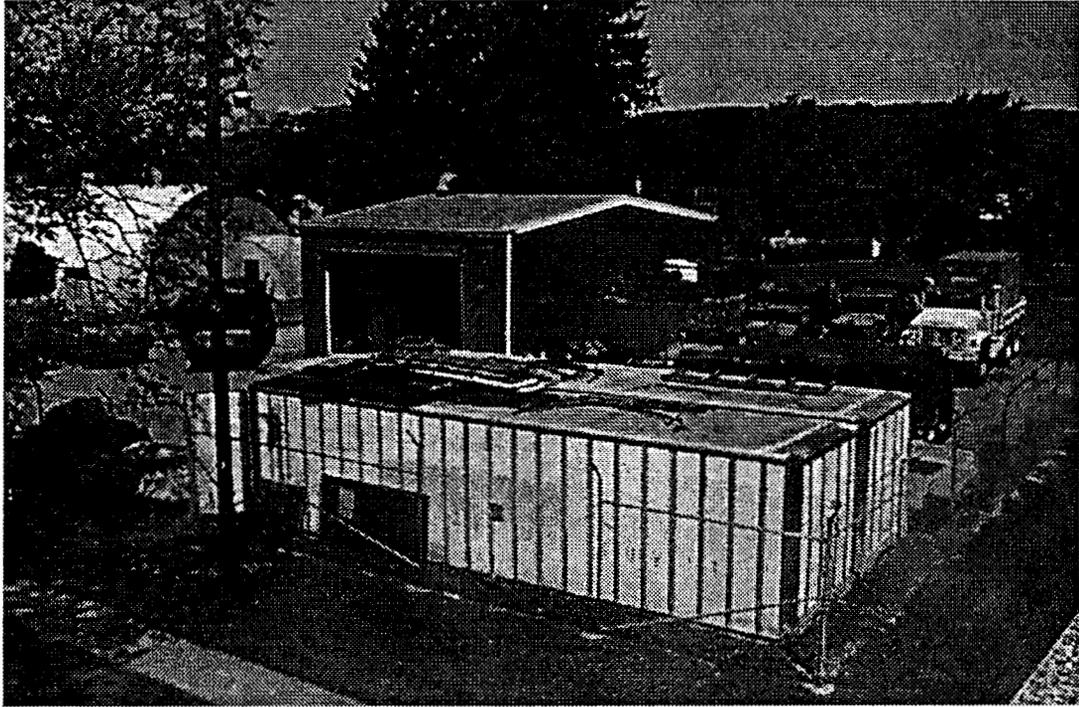


Photo 5: South and East elevations of OMSand MEP. Quonset hut to west is American Legion building.

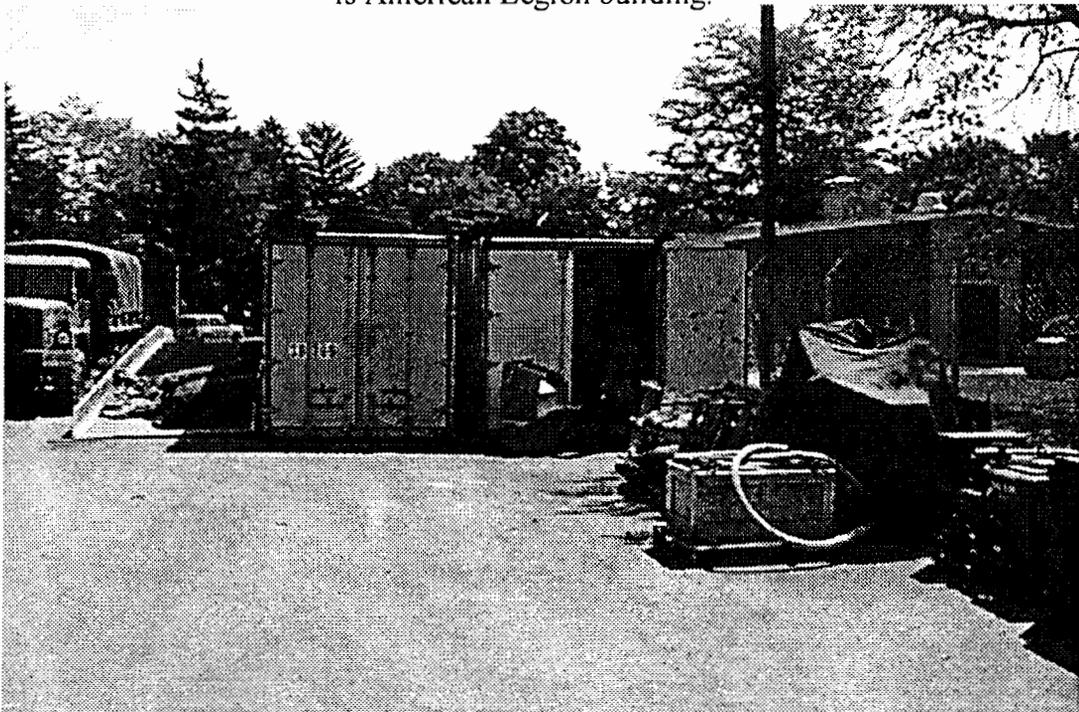


Photo 6: Storage in Southeast corner of MEP adjacent to OMS

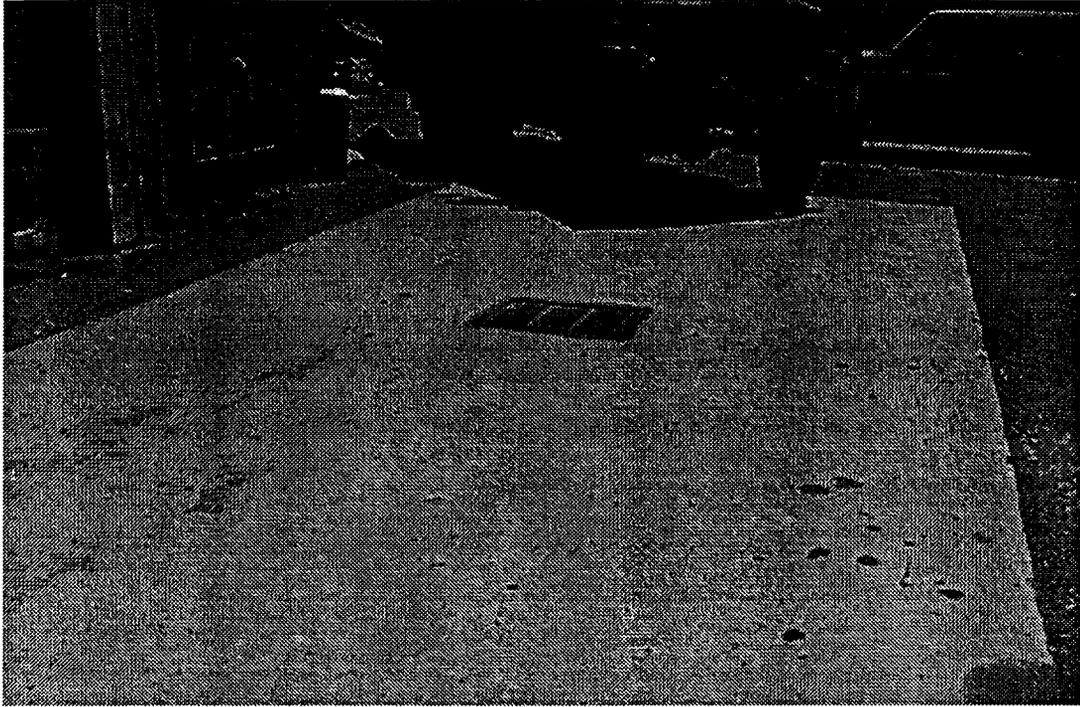


Photo7: Washrack west of OMS

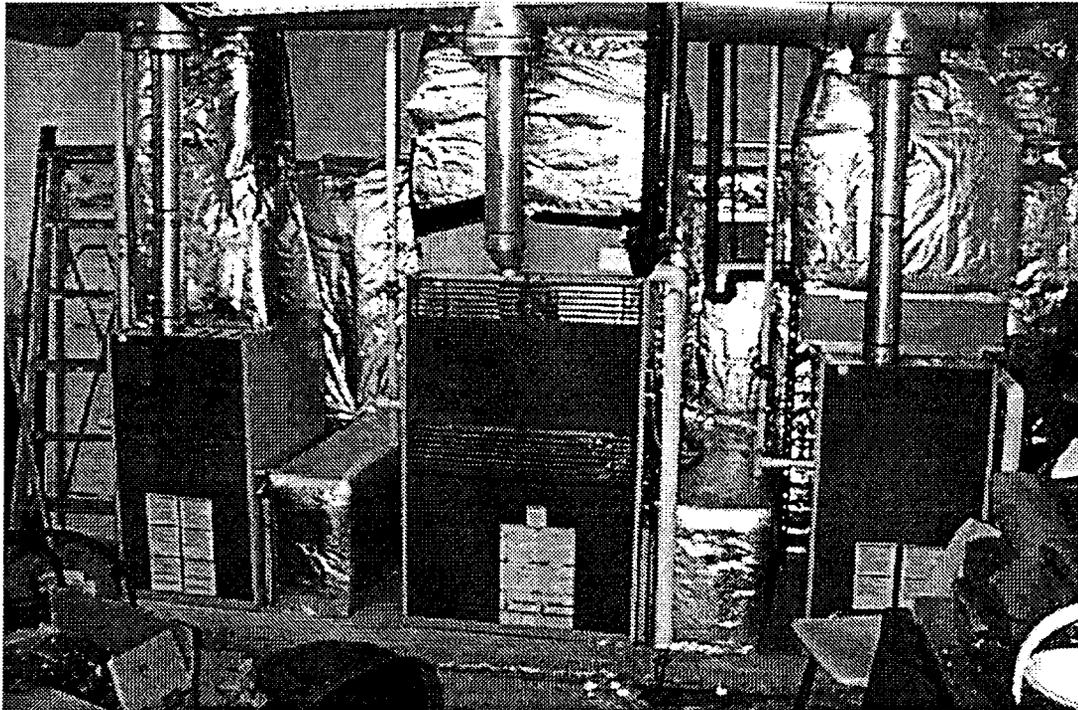


Photo 8: Main Building mechanical room showing 3 natural gas forced air furnaces. 2 units on right have air conditioning capability.



Photo 9: 12" x 12" acoustical ceiling tile - suspect ACM

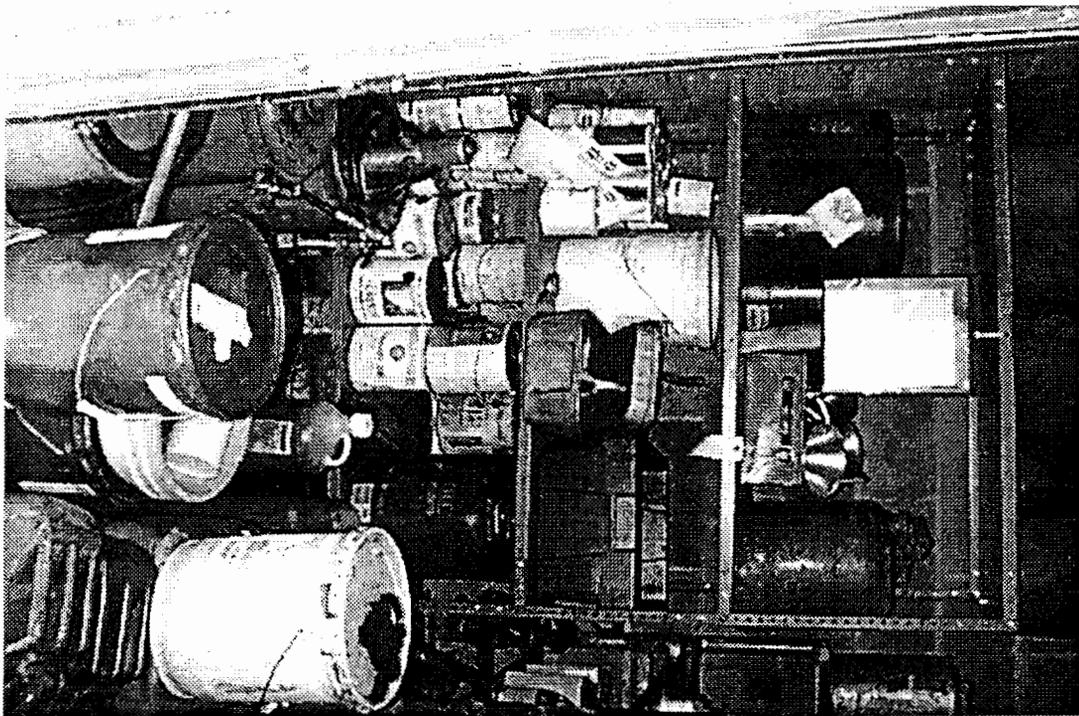


Photo 10: OMS flammable and combustible storage room.
NOTE: View from left.

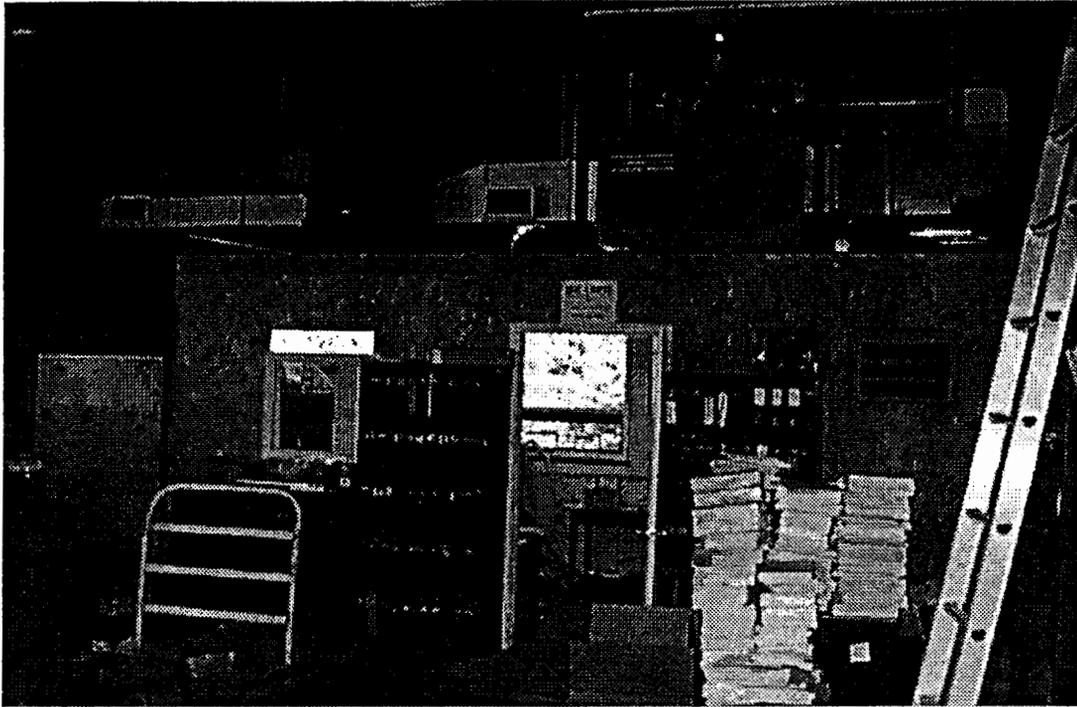
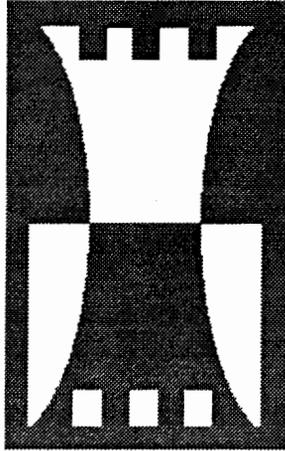


Photo 11: Office in OMS, heating unit overhead, and general storage

DEPARTMENT OF THE ARMY
UNITED STATES ARMY FACILITY ENGINEER GROUP
416TH ENGINEER COMMAND
TDA AUGMENTATION
10 South 100 Frontage Road
Darien, IL 60561-1780



ENVIRONMENTAL COMPLIANCE ASSESSMENT

For

Bloomsburg USAR Center

Bloomsburg, Pennsylvania
Facility I.D. No. PA009

Date of Visit: 31 MAY – 1 JUN 2001

PREPARED BY:

FACILITY ENGINEER GROUP (416th ENCOM)
FACILITY ENGINEER CENTER - NORTHEAST

FORT INDIANTOWN GAP
FACILITY ENGINEERING TEAM
Annville, Pennsylvania

**FACILITY ENGINEER GROUP
USAR FACILITY
ENGINEERING AND ENVIRONMENTAL
FACILITY ASSESSMENT**

ENVIRONMENTAL COMPLIANCE ASSESSMENT

INSTALLATION NAME: BLOOMSBURG USAR CENTER
BLOOMSBURG, PA

INSTALLATION NUMBER: PA009 DATE: 31 MAY – 1 JUN 2001

TABLE OF CONTENTS

<u>SECTION</u>	<u>DESCRIPTION</u>
1.	EXECUTIVE SUMMARY
2.	FACILITY IDENTIFICATION
3.	INSTALLATION/ASSESSMENT
4.	SUMMARY OF FINDINGS
5.	FINDING SHEETS

SECTION 1: EXECUTIVE SUMMARY

INSTALLATION NAME: BLOOMSBURG USAR CENTER
 INSTALLATION NUMBER: PA009 DATE: 31 MAY – 1 JUN 2001

1. The Ft. Indiantown Gap Facility Engineer Team (Team) conducted an Engineering and Environmental Facility Assessment (E2FA) for the Bloomsburg USAR Center on 31 MAY – 1 JUN 2001. The center consists of two buildings; the main single story building (approximately 3,827 SF) and one-bay OMS (approximately 1,152 SF). Both buildings are constructed of concrete block and brick veneer originally constructed in 1956 (Main Building) and 1965 (OMS). The center capacity is 25 man, however the unit greatly exceeds this capacity. There is a POV parking area and a fenced MEP. The size of the entire site is approximately 2.1 acres. The center is surrounded by residential properties on all sides. The facility is occupied by the following unit:

UNIT	Assigned Strength	Authorized Strength	Full-Time	
			Military	Civilian
814 th Quartermaster Co. (-)	65	117	5	1

1. Since its construction in 1956/1965, there have been several system upgrades/replacements, including; energy efficient windows and doors (Ca. 1990), central heating and air conditioning system (1990), suspended ceiling grid in hallways (1990), and exterior doors new trusses, and stone ballasted EPDM roofing on both buildings (Ca. 1990). The main building heating system is natural gas forced hot air with central air conditioning (2 of the 3 air handling systems). The OMS is heated by one (1) gas-fired unit heaters and one (1) natural gas infrared heater.
2. The inspection documented 9 findings including 1 Class I Regulatory, 4 Regulatory Health and Safety, and 4 Class III Management. Significant findings are summarized as follows:
- The OMS wash rack drains to a leaching pit that is not connected to an oil/water separator or the public sewer system.
 - Asbestos containing materials are present in the main building, however an asbestos management plan was not available for review.
 - Two underground storage tanks storing heating oil were removed from the facility in 1996, however closure documentation was not available for review at the facility.
 - Annual chemical inventories are not being conducted. Material Safety Data Sheets (MSDS) were not available for chemicals stored at the facility.
 - Key facility environmental personnel have not attended environmental training.

3. Ms. Amanda Beeghly and SFC Creswell were extremely helpful and cooperated in assisting the team with this visit. Their dedication and professionalism greatly simplified our team's ability to accomplish the mission.



DOUGLAS F. GARNER, PE
LTC, EN, USAR
FIG FET Team Leader

SECTION 2: FACILITY IDENTIFICATION

INSTALLATION NAME: BLOOMSBURG USAR CENTER

INSTALLATION NUMBER: PA009

STREET ADDRESS: 1469 Old Berwick Road

CITY/TOWN: Bloomsburg

STATE: PA

ZIP CODE: 17815-3027

RSC/RSG: 99th RSC

FACILITY TYPE:

A. USARC: <u>X</u>	B. AFRC: <u> </u>	C. OMS: <u>X</u>	D. FLIGHT: <u> </u>
E. DS/GS: <u> </u>	F. MED: <u> </u>	G. WET: <u> </u>	H. FLIGHT: <u> </u>
I. ECS: <u> </u>	J. CTF: <u> </u>	K. OTHER: <u> </u>	

ASSESSMENT PERFORMED BY: Ft. Indiantown Gap FET

FACILITY ENGINEER TEAM INCLUDED:

LTC Doug Garner
 MAJ John Holtzman
 SFC Tom Byers

REFER TO FOR INFORMATION: LTC Doug Garner

Work: (607) 770-2696 Home: (607) 798-6650

PERSONNEL CONTACTED ON SITE:

NAME/GRADE	DUTY POSITION	PHONE NUMBER E-MAIL
Ms. Amanda Beeghly	UA/Fac. Coordinator	(570) 784-4746
SFC Calvin Creswell	Alt. Fac. Coord/Plt Sgt.	(570) 784-4746
Ms. Kendra Borka	Environmental Specialist	(215) 443-1667

ASSESSMENT CONDUCTED FROM: 31 MAY 2001/0930

TO: 01 JUN 2001/1200

DATE OF LAST ASSESSMENT: 4-5 FEB 1997

SECTION 4: FINDING SUMMARY

TABLE 1-1
SUMMARY OF FINDINGSINSTALLATION: BLOOMSBURG USARC
FFID: PA-2104PA009

Fiscal Year: 2001

SECTION NO. TITLE	REGULATORY			MANAGEMENT			TOTAL
	I	II	HS	POS	III	HS	
A Air Emissions	0	0	0	0	0	0	0
C Cultural Resources	0	0	0	0	0	0	0
HM Hazardous Materials	0	0	3	0	1	0	4
HW Hazardous Waste	0	0	0	0	0	0	0
NR Natural Resource	0	0	0	0	0	0	0
O1 Environmental Impacts	0	0	0	0	0	0	0
O2 Environmental Noise	0	0	0	0	0	0	0
O3 IRP	0	0	0	0	0	0	0
O4 Pollution Prevention	0	0	0	0	0	0	0
O5 Program Management	0	0	0	0	0	0	0
PM Pesticide	0	0	0	0	0	0	0
PO POL	0	0	0	0	0	0	0
SO Solid Waste	0	0	0	0	0	0	0
ST Storage Tanks	0	0	0	0	1	0	1
T1 PCB	0	0	0	0	0	0	0
T2 Asbestos	0	0	0	0	1	0	1
T3 Radon	0	0	0	0	1	0	1
T4 Lead Based Paint	0	0	1	0	0	0	1
WA Wastewater	1	0	0	0	0	0	1
WQ Water Quality	0	0	0	0	0	0	0
TOTALS	1	0	4	0	4	0	9

Data File Name Prefix: C:\PA009
Date Summary Report Produced: 06/02/2001

SECTION 5: FINDING SHEETS

HM.1.1.A #1 III ARMY/DOD FINDING
 MANUAL QUESTION NUMBER: HM-001-001-A
 FINDING CATEGORY: CLASS III
 FINDING TYPE: Negative
 LOCATION: USARC
 IFS FACILITY NUMBER:
 FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

Hazardous Materials
 FINDING ID: PA009-002
 EXISTING NOV: NO

FINDING DESCRIPTION: A copy of the current 99th RSC Waste Management Plan was not on hand during the inspection.

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): The 99th RSC Regional Office #2 should prepare/provide the appropriate facility waste management plan.

CRITERIA: Copies of all relevant Federal, DOD, Army, and state/local regulations, and guidance documents on hazardous materials management, or access to electronic bulletin boards (e.g., DENIX) should be available at the installation (MP).

FINDING COMMENTS:

STATUS OF CORRECTION:

INSTALLATION RESPONSE:

CORRECTIVE ACTION DESCRIPTION: The 99th RSC Waste Management plan was completed and provided copies to Charles Carpenter
5/20/07. Can make to Charles to get plan to Dismantling

DATE CORRECTIVE ACTION COMPLETED: 8 JUN 07

ESTIMATED DATE CORRECTIVE ACTION TO BE COMPLETED: _____
 1383 PROJECT # (IF APPLICABLE): _____

POC: Kendra Baska PHONE NUMBER: (215) 443-1667

HM.1.2 #1 HS FEDERAL FINDING
MANUAL QUESTION NUMBER: HM-001-002
FINDING CATEGORY: HEALTH/SAFETY
FINDING TYPE: Negative
LOCATION: USARC/OMS
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

Hazardous Materials
FINDING ID: PA009-008
EXISTING NOV: NO

FINDING DESCRIPTION: Designated unit personnel have not conducted an inventory of chemicals (hazardous materials) at the USARC/OMS. Material Safety Data Sheets (MSDS) not available to match chemical inventory.

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): The facility coordinator should conduct an inventory of chemicals (hazardous materials) stored at the USARC/OMS. MSDS should be obtained for each chemical.

CRITERIA: Installations/CW facilities are required to have on file an MSDS for each hazardous chemical stored and used at the installation/CW facility (29 CFR 1910.1200(b)(3)(ii), 1910.1200(b)(4)(ii), 1910.1200(b)(6), 1910.1200(g)(1), and 1910.1200(g)(8)).

FINDING COMMENTS:

STATUS OF CORRECTION:

INSTALLATION RESPONSE:

CORRECTIVE ACTION DESCRIPTION: Inventory conducted by Michelle Brown on April 01. Inventory results report should be provided by

DATE CORRECTIVE ACTION COMPLETED: _____

ESTIMATED DATE CORRECTIVE ACTION TO BE COMPLETED: July 2001
1383 PROJECT # (IF APPLICABLE): _____

POC: Kendrick Borko PHONE NUMBER: (515) 445-1667

HM.10.1 #1 HS FEDERAL FINDING
MANUAL QUESTION NUMBER: HM-010-001
FINDING CATEGORY: HEALTH/SAFETY
FINDING TYPE: Negative
LOCATION: USARC/OMS
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

Hazardous Materials
FINDING ID: PA009-006
EXISTING NOV: NO

FINDING DESCRIPTION: A written Hazard Communication program was not available for the facility.

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): The 99th RSC Regional Office #2 should prepare a written Hazard Communication program which complies with 99th RSC and OSHA requirements.

CRITERIA: Installations/CW facilities are required to have a written hazard communication program that is designed to provide all employees with information about the hazardous chemicals to which they are exposed (29 CFR 1910.1200(b)(1) and 1910.1200(e)(1)) [February 1995].

FINDING COMMENTS:

STATUS OF CORRECTION:

INSTALLATION RESPONSE:

CORRECTIVE ACTION DESCRIPTION: Implement Management plan (MSD)
to meet requirements

DATE CORRECTIVE ACTION COMPLETED: 8/30/07

ESTIMATED DATE CORRECTIVE ACTION TO BE COMPLETED: _____

1383 PROJECT # (IF APPLICABLE): _____

POC: Kendra Burke

PHONE NUMBER: (215) 445-1107

HM.10.2 #1 HS FEDERAL FINDING
 MANUAL QUESTION NUMBER: HM-010-002
 FINDING CATEGORY: HEALTH/SAFETY
 FINDING TYPE: Negative
 LOCATION: USARC/OMS
 IFS FACILITY NUMBER:
 FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

Hazardous Materials
 FINDING ID: PA009-001
 EXISTING NOV: NO

FINDING DESCRIPTION: The unit has identified SGT Stevens as the Environmental Action NCO. SGT Stevens has not attended the environmental training offered by the 99th RSC.

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): SGT Stevens should be sent to the 99th RSC environmental training course.

CRITERIA: Personnel working with hazardous materials are required to be trained in their use and the potential hazards of such materials (29 CFR 1910.1200(b)(3)(iii), 1910.1200(b)(4)(iii), 1910.1200(b)(6), and 1910.1200(h)).

FINDING COMMENTS:

STATUS OF CORRECTION:

INSTALLATION RESPONSE:

CORRECTIVE ACTION DESCRIPTION: _____

DATE CORRECTIVE ACTION COMPLETED: _____

ESTIMATED DATE CORRECTIVE ACTION TO BE COMPLETED: 2/2
 1383 PROJECT # (IF APPLICABLE): _____

POC: Kendra Proke PHONE NUMBER: (215) 493-1007

ST.95.7 #1 III FEDERAL FINDING
MANUAL QUESTION NUMBER: ST-095-007
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative
LOCATION: USARC/OMS
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

Storage Tanks
FINDING ID: PA009-010
EXISTING NOV: NO

FINDING DESCRIPTION: The 99th RCS Regional Office #2 maintains a copy of the Underground Storage Tank closure completed at the main building (1500 gallon capacity heating oil) and OMS (550 gallon capacity heating oil) in 1996 by Engineering Technologies Associates, Inc. under Contract No. DACA31-95-D-0106. The report indicates that confirmatory samples were collected and that analysis of these samples indicated no concentrations of heating oil constituents exceeding regulatory guidelines. A sample was not collected beneath the remote fill at the OMS.

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): The facility coordinator should obtain a copy of the UST closure report from the 99th RSC DCSENG or Regional Office #2 and maintain the report as part of center files.

CRITERIA: Excavation zone assessment records shall be maintained for 3 yr (40 CFR 280.10(c) and 280.74) [March 1995].

FINDING COMMENTS:

STATUS OF CORRECTION:

INSTALLATION RESPONSE:

CORRECTIVE ACTION DESCRIPTION: copy of UST reports included
attached to file and sent

DATE CORRECTIVE ACTION COMPLETED: 8 JUN 01

ESTIMATED DATE CORRECTIVE ACTION TO BE COMPLETED: _____

1383 PROJECT # (IF APPLICABLE): _____

POC: Kierdra Boyka

PHONE NUMBER: (215) 445-1107

T2.1.4.R #1 III ARMY/DOD FINDING
MANUAL QUESTION NUMBER: T2-001-004-R
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative
LOCATION: USARC
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

Asbestos
FINDING ID: PA009-004
EXISTING NOV: NO

FINDING DESCRIPTION: Asbestos containing materials were observed at the USARC. An asbestos management plan was not available for review.

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): An asbestos management plan should be prepared by the 99th RSC Regional Office #2.

CRITERIA: Facilities are required to prepare, coordinate, and execute an Installation Asbestos Management Plan (AR 200-1, para 10-3).

FINDING COMMENTS:

STATUS OF CORRECTION:

INSTALLATION RESPONSE:

CORRECTIVE ACTION DESCRIPTION: Bioprocess Asbestos Survey
was present for review. Copies will be made
and needed

DATE CORRECTIVE ACTION COMPLETED: 8/1/07

ESTIMATED DATE CORRECTIVE ACTION TO BE COMPLETED: _____
1383 PROJECT # (IF APPLICABLE): _____

POC: Kerline Burke PHONE NUMBER: (214) 443 1043

T3.1.13.A #1 III ARMY/DOD FINDING
MANUAL QUESTION NUMBER: T3-001-013-A
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative
LOCATION: USARC
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

Radon
FINDING ID: PA009-005
EXISTING NOV: NO

FINDING DESCRIPTION: A soil depressurization radon mitigation system was installed in the main building by Ecosphere Corporation in August, 1995. The system appears to be functioning properly, however there does not appear to be any follow-up radon testing to evaluate the effectiveness of this system.

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): The 99th RSC Regional Office #2 should coordinate radon monitoring at the USARC to evaluate the effectiveness of the radon mitigation system.

CRITERIA: Installations are required to perform post-mitigation measurement to confirm and document effectiveness of mitigation (AR 200-1, para 11-5c).

FINDING COMMENTS:

STATUS OF CORRECTION:

INSTALLATION RESPONSE:

CORRECTIVE ACTION DESCRIPTION: Charlie Carpenter will install radon detectors

DATE CORRECTIVE ACTION COMPLETED: _____

ESTIMATED DATE CORRECTIVE ACTION TO BE COMPLETED: FY02
1383 PROJECT # (IF APPLICABLE): _____

POC: Kendra Foster PHONE NUMBER: (615) 443-1167

T4.20.2 #1 HS FEDERAL FINDING
MANUAL QUESTION NUMBER: T4-020-002
FINDING CATEGORY: HEALTH/SAFETY
FINDING TYPE: Negative
LOCATION: USARC/OMS
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

Lead Based Paint
FINDING ID: PA009-009
EXISTING NOV: NO

FINDING DESCRIPTION: The USARC was constructed in 1956 and the OMS in 1965. A lead based paint survey was not available for review.

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): The 99th RSC Regional Office #2 should review available records to determine if a lead based paint survey was completed for the facility. If available, a copy of the survey should be forwarded to the USARC.

CRITERIA: LEAD HAZARD SCREENS ARE REQUIRED TO BE DONE ACCORDING TO SPECIFIC METHODOLOGIES (40CFR745).

FINDING COMMENTS:

STATUS OF CORRECTION:

INSTALLATION RESPONSE:

CORRECTIVE ACTION DESCRIPTION: Lead paint survey was not done. This is a Class III finding and testing is not available

DATE CORRECTIVE ACTION COMPLETED: 8/5/2001

ESTIMATED DATE CORRECTIVE ACTION TO BE COMPLETED: _____
1383 PROJECT # (IF APPLICABLE): _____

POC: Kendra Benke PHONE NUMBER: (215) 443-1643

WA.2.1.A #1 I ARMY/DOD FINDING
MANUAL QUESTION NUMBER: WA-002-001-A
FINDING CATEGORY: CLASS I
FINDING TYPE: Negative
LOCATION: OMS
IFS FACILITY NUMBER:
FACILITY TYPE: OMS - ORGANIZATIONAL MAINTENANCE SHOP

Wastewater
FINDING ID: PA009-007
EXISTING NOV: NO

FINDING DESCRIPTION: The washrack was constructed in 1965 and historically drained to a leaching pit. The leaching pit is not connected to the public sewer system. An oil/water separator is not associated with this system. The wash rack is not currently used.

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): The washrack should be either permanently closed or reconstructed to include an industry accepted oil/water separator. Additionally, the Facility Coordinator/Unit Commander should ensure that the existing wash rack is taken out of service.

CRITERIA: Installations should evaluate their operations/activities to identify and initiate opportunities for pollution prevention (MP) [July 1996].

FINDING COMMENTS:

STATUS OF CORRECTION:

INSTALLATION RESPONSE:

CORRECTIVE ACTION DESCRIPTION: _____

DATE CORRECTIVE ACTION COMPLETED: _____

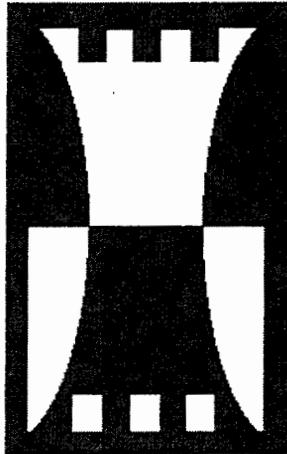
ESTIMATED DATE CORRECTIVE ACTION TO BE COMPLETED: _____

1383 PROJECT # (IF APPLICABLE): _____

POC: _____

PHONE NUMBER: _____

DEPARTMENT OF THE ARMY
UNITED STATES ARMY FACILITY ENGINEER GROUP
416TH ENGINEER COMMAND
TDA AUGMENTATION
10 South 100 Frontage Road
Darien, IL 60561-1780



FACILITY CONDITION SURVEY

For

Bloomsburg USAR Center

Bloomsburg, Pennsylvania
Facility I.D. No. PA009

Date of Visit: 31 MAY – 1 JUN 2001

PREPARED BY:

FACILITY ENGINEER GROUP (416th ENCOM)
FACILITY ENGINEER CENTER - NORTHEAST

FORT INDIANTOWN GAP
FACILITY ENGINEERING TEAM
Annville, Pennsylvania

FACILITY CONDITION SURVEY

Bloomsburg, PA USAR Center
Main Building

FAC ID: BLDG TYPE: YEAR BUILT:
 FAC NUM: GROSS SQ FT: DATE OF SURVEY:

COMPONENT ROWS								
	SYSTEM LIFETIME	EC (0-15%)	VG (16-24%)	GC (25-39%)	AC (40-59%)	FC (60-75%)	PC (76-100%)	
EXTERIOR	60 YRS		X					
WINDOWS	15 YRS		X					
SITE	20 YRS				X			
ELEVATOR	15 YRS	Not Applicable						
PAINTING (EXTERIOR)	10 YRS	Not Applicable						
ELECTRICAL	25 YRS		X					
FLOORING	20 YRS			X				
CEILING	15 YRS				X			
PAINTING (INTERIOR)	10 YRS				X			
INTERIOR	40 YRS			X				
PLUMBING	25 YRS			X				
HVAC	20 YRS		X					
ROOF	25 YRS		X					

SIGNS OF POOR COMPONENT CONDITIONS

EXTERIOR: Cracked or loose mortar joints, loose siding, structural cracks, etc.
WINDOWS: Cracked, broken, require glazing, etc.
SITE: Drainage problems, inadequate parking for MEP/POV. Holes or cracks in pavement. Adequate security lighting, etc.
PAINTING: Peeling, cracking, etc.

ELECTRICAL: Defective, broken, inadequate wiring, antiquated or tarnished lighting fixtures or service equipment, not wired for 3 phase.
FLOORING: Cracks, sagging, worn or torn spots. Expansion joint separation, etc.
CEILING: Missing tiles, water stained, cracked or broken, etc.
INTERIOR: Cracks in drywall, plaster, or block, missing or loose hardware, peeling paint, mildew, smoke or water stains, insect or rodent damage.
PLUMBING: Leaking faucets or pipe connections. Inadequate or antiquated plumbing fixtures.
HVAC: Inadequate or poorly spaced equipment. Antiquated systems, high operating costs, furnaces or boilers in poor repair, rusted ductwork, etc.
ROOF: Leakage, missing shingles, or tiles, sagging or decaying roof structures, damaged trusses, plugged roof.

CONDITION RANKINGS

EC (Excellent Condition, 0%-15%): Items that can normally be repaired or refinished, have been corrected or replaced.
VG (Very Good Condition, 16%-24%): Items well maintained, many repaired, refinished or replaced.
GC (Good Condition 25%-39%): No obvious maintenance required, but neither is everything new.
AC (Average Condition, 40%-59%): Some evidence of deferred maintenance and normal obsolescence with age.
FC (Fair Condition, 60%-75%): Evidence of badly worn components. Much repair is needed.
PC (Poor Condition, 76%-100%): Components are worn out. Repair or refinish is needed. Excessive deferred maint.

FACILITY CONDITION SURVEY

Bloomsburg, PA USAR Center
OMS

FAC ID: BLDG TYPE: YEAR BUILT:
 FAC NUM: GROSS SQ FT: DATE OF SURVEY:

COMPONENT ROWS								
	SYSTEM LIFETIME		EC (0-15%)	VG (16-24%)	GC (25-39%)	AC (40-59%)	FC (60-75%)	PC (76-100%)
EXTERIOR	60 YRS			X				
WINDOWS	15 YRS			X				
SITE	20 YRS					X		
ELEVATOR	15 YRS	Not Applicable						
PAINTING (EXTERIOR)	10 YRS	Not Applicable						
ELECTRICAL	25 YRS			X				
FLOORING	20 YRS					X		
CEILING	15 YRS					X		
PAINTING (INTERIOR)	10 YRS					X		
INTERIOR	40 YRS					X		
PLUMBING	25 YRS		N/A					
HVAC	20 YRS			X				
ROOF	25 YRS			X				

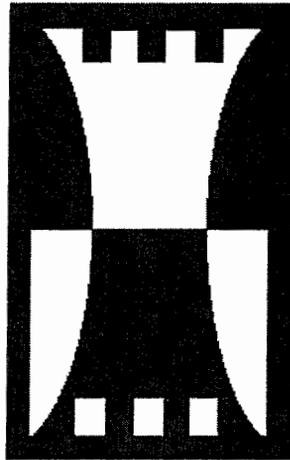
SIGNS OF POOR COMPONENT CONDITIONS

- EXTERIOR:** Cracked or loose mortar joints, loose siding, structural cracks, etc.
- WINDOWS:** Cracked, broken, require glazing, etc.
- SITE:** Drainage problems, inadequate parking for MEP/POV. Holes or cracks in pavement. Adequate security lighting, etc.
- PAINTING:** Peeling, cracking, etc.
- ELECTRICAL:** Defective, broken, inadequate wiring, antiquated or tarnished lighting fixtures or service equipment, not wired for 3 phase.
- FLOORING:** Cracks, sagging, worn or torn spots. Expansion joint separation, etc.
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- PC (Poor Condition, 76%-100%):** Components are worn out. Repair or refinish is needed. Excessive deferred maint.

DEPARTMENT OF THE ARMY
UNITED STATES ARMY FACILITY ENGINEER GROUP
416TH ENGINEER COMMAND
TDA AUGMENTATION
10 South 100 Frontage Road
Darien, IL 60561-1780



REAL PROPERTY MAINTENANCE ACTIVITIES

For

Bloomsburg USAR Center

Bloomsburg, Pennsylvania
Facility I.D. No. PA009

Date of Visit: 31 MAY – 1 JUN 2001

PREPARED BY:

FACILITY ENGINEER GROUP (416th ENCOM)
FACILITY ENGINEER CENTER - NORTHEAST

FORT INDIANTOWN GAP
FACILITY ENGINEERING TEAM
Annville, Pennsylvania

**FACILITY ENGINEER GROUP
USAR FACILITY
ENGINEERING AND ENVIRONMENTAL
FACILITY ASSESSMENT**

RPMA WORK REQUIREMENTS

INSTALLATION NAME: Bloomsburg USAR Center, Bloomsburg

INSTALLATION NUMBER: PA009

DATE: 31 MAY – 1 JUN 2001

TABLE OF CONTENTS

<u>SECTION</u>	<u>DESCRIPTION</u>
1.	EXECUTIVE SUMMARY
2.	FACILITY IDENTIFICATION
3.	COMPONENT INSPECTION SUMMARY
4.	OTHER ENGINEERING SERVICES REQUIREMENTS
5.	RPMA PROJECT DOCUMENTATION AND COST ESTIMATES
6.	SUMMARY OF RISER REPORT (ANNOTATED)

SECTION 1 EXECUTIVE SUMMARY

INSTALLATION NAME: BLOMMEN-RUSSELL USAR CENTER

INSTALLATION NUMBER: PA020 DATE: 01-02 FEB 2001

1. The Ft. Indiantown Gap Facility Engineer Team (Team) conducted an Engineering and Environmental Facility Assessment (E2FA) for the Bloomsburg USAR Center on 31 MAY – 1 JUN 2001. The center consists of two buildings; the main single story building (approximately 3,827 SF) and one-bay OMS (approximately 1,152 SF). Both buildings are constructed of concrete block and brick veneer originally constructed in 1956 (Main Building) and 1965 (OMS). The center capacity is 25 man, however the unit greatly exceeds this capacity. There is a POV parking area and a fenced MEP. The size of the entire site is approximately 2.1 acres. The center is surrounded by residential properties on all sides. The facility is occupied by the following unit:

UNIT	Assigned Strength	Authorized Strength	Full-Time	
			Military	Civilian
814 th Quartermaster Co. (-)	65	117	5	1

2. Since its construction in 1956/1965, there have been several system upgrades/replacements, including; energy efficient windows (Ca. 1990), central heating and air conditioning system (1990), suspended ceiling grid in hallways (1990), and exterior doors new trusses, and stone ballasted EPDM roofing on both buildings (Ca. 1990). The main building heating system is natural gas forced hot air with central air conditioning (2 of the 3 air handling systems). The OMS is heated by one (1) gas-fired unit heaters and one (1) natural gas infrared heater.
3. Real Property Maintenance: The main building is constructed of concrete masonry unit (CMU) interior walls covered by brick veneer exterior walls with a concrete floor. The OMS consists of CMU interior walls and brick veneer exterior walls with a concrete floor. The overall condition of the facility is very good. Most of the major building components have been well maintained or recently upgraded/replaced. Very few minor deficiencies were noted, as the facility is well maintained and very presentable.
4. During the site visit, the assessment team reviewed a summary of the RISER report, which contained previously submitted work orders. This RISER report summary has been annotated to reflect item validity of the requested work, resulting in verification of the total estimated cost of \$139,500. Additional new RPMA work estimated at \$40,100 was identified during the assessment. All real property maintenance information is contained in Enclosure C.
5. Ms. Amanda Beeghly and SFC Creswell were extremely helpful and cooperated in assisting the team with this visit. Their dedication and professionalism greatly simplified our team's ability to accomplish the mission.



DOUGLAS F. GARNER, PE
LTC, EN, USAR
FIG FET Team Leader

SECTION 2: FACILITY IDENTIFICATION

INSTALLATION NAME: BLOOMSBURG USAR CENTER

INSTALLATION NUMBER: PA009

STREET ADDRESS: 1469 Old Berwick Road

CITY/TOWN: Bloomsburg

STATE: PA

ZIP CODE: 17815-3027

RSC/RSG: 99th RSC

FACILITY TYPE:

A. USARC:	<u>X</u>	B. AFRC:	___	C. OMS:	<u>X</u>	D. FLIGHT:	___
E. DS/GS:	___	F. MED:	___	G. WET:	___	H. FLIGHT:	___
I. ECS:	___	J. CTF:	___	K. OTHER:			

ASSESSMENT PERFORMED BY: Ft. Indiantown Gap FET

FACILITY ENGINEER TEAM INCLUDED:

LTC Doug Garner
 MAJ John Holtzman
 SFC Tom Byers

REFER TO FOR INFORMATION: LTC Doug Garner

Work: (607) 770-2696 Home: (607) 798-6650

PERSONNEL CONTACTED ON SITE:

NAME/GRADE	DUTY POSITION	PHONE NUMBER	E-MAIL
Ms. Amanda Beeghly	UA/Fac. Coordinator	(570) 784-4746	
SFC Calvin Creswell	Alt. Fac. Coord/Plt Sgt.	(570) 784-4746	
Ms. Kendra Borka	Environmental Specialist	(215) 443-1667	

ASSESSMENT CONDUCTED FROM: 31 MAY 2001/0930 TO: 01 JUN 2001/1200

DATE OF LAST ASSESSMENT: 4-5 FEB 1997

SECTION 3: COMPONENT INSPECTION SUMMARY

INSTALLATION NAME: Bloomsburg USAR Center, Bloomsburg
INSTALLATION NUMBER: PA009

A Facility Condition Survey was conducted to assessment the current condition of the facility. The survey is used to develop a Long-Range Maintenance Plan. See Enclosure B.

A Component Inspection Summary is provided in the following table that summarizes the results of the Facility Condition Survey. The definition of the condition codes are as follows:

- C1 Item is generally in good condition and requires only routine maintenance and repair.
- C2 Item shows signs of partial failure of system components and needs maintenance, repair, or replacement.
- C3 Item shows signs of extensive or complete failure of system components or system and needs immediate maintenance, repair, or replacement.

Component Inspection Summary: PA009

Item No.	Facility Component	Cond Code	Date of Component Installation	Date of Last Maint/Repair	Est'd Remain Life, years	Projected FY of Repair	Cost of Work Estimate	Work Order Number
1	Ceilings	C2	1956/1990		20			
2	Walls	C1	1956/1965		20			
3	Doors	C1	Ca. 1990		20		\$4,500 100	VA0130141P None
4	Floors	C1	1956/1965		20		300	None
5	Windows	C1	Ca. 1990		20			
6	Stairs	N/A	-		-			
7	Latrines	C1	1956		5		60,000	VA012TC49P
8	Kitchen	N/A	-		-			
9	Electrical	C1	1956/1965		10		2,000	None
10	Plumbing	C1	1956/1965		10			
11	Heating Sys	C1	1990		20		750	None
12	Cooling Sys	C1	1990		20			
13	Site/Grounds	C1	1956/1965		50		24,750	PA009-01
14	Bldg Exterior	C1	1956/1965		30			
15	Roof	C1	Ca. 1990		30			
16	Fencing	C2	1956/1965		5			
17	Pavement	C2	Ca. 1972		5		75,000 12,200	VA0000186P PA009-02
18	Security Sys	N/A	-		-			
19	Other	NA						
Total Cost							\$179,600	

- C1 Item is generally in good condition and requires only routine maintenance and repair.
C2 Item shows signs of partial failure of system components and needs maintenance, repair, or replacement.
C3 Item shows signs of extensive or complete failure of system components or system and needs immediate maintenance, repair, or replacement.

SECTION 4. SUMMARY OF UNCONSTRAINED WORK REQUIREMENTS

INSTALLATION NAME: Bloomsburg USAR Center, Bloomsburg

INSTALLATION NUMBER: PA009

DATE: 31 MAY - 1 JUN 2001

	ESTIMATED COST
PREVIOUSLY IDENTIFIED MAINTENANCE AND REPAIR	\$139,500
NEWLY IDENTIFIED MAINTENANCE AND REPAIR	\$40,100
PREVIOUSLY IDENTIFIED MINOR CONSTRUCTION/ALTERATION	0
NEWLY IDENTIFIED MINOR CONSTRUCTION/ALTERATION	0
PREVIOUSLY IDENTIFIED OTHER ENGINEERING SERVICES	0
NEWLY IDENTIFIED OTHER ENGINEERING SERVICES	0
TOTAL UNCONSTRAINED RPMA REQUIREMENTS	<u>\$179,600</u>

SECTION 5: RPMA DOCUMENTATION AND COST ESTIMATES

Work Order Number	Description	Cost Estimate
PA009-01	Close existing vehicle wash rack and construct new	24,750
PA009-02	Repair, seal, and stripe pavement	12,200
None	Install concrete step platform at OMS east door	300
None	Install ventilation in HAZMAT room in OMS	750
None	Install additional outlets in main building offices	2,000
None	Install additional weather-stripping on OMS OH door	100
TOTAL NEWLY IDENTIFIED WORK		<u>\$40,100</u>

Notes:

1. Cost estimates are provided for individual work tasks estimated to be more than \$2,500. No cost estimates are provided for work tasks less than \$2,500, which should be executed via the Government Impac credit card.
2. All locations are the main building unless noted otherwise.

1. COST ESTIMATE NUMBER: PA009-01

TYPE PROJECT: New Work ___ Repair ___ Maintenance X EIP ___ Other (*specify*)

RECOMMENDED METHOD OF ACCOMPLISHMENT:

DESIGN: A/E Contract ___ 416th ENCOM ___ Not Required X Other

CONSTRUCTION: Contract X Local Purchase ___ Self Help/Troop

SDEH In-House ___ Other _____

SHORT JOB DESCRIPTION: Close existing vehicle wash rack and construct new wash rack with an oil/water separator, connected to sanitary sewer.

DESCRIPTION OF WORK: DETAILED COST ESTIMATE: (SHEET 1 OF 1)

ITEM	UM	QTY	UNIT COST	TOTAL COST
Sample leach pit and close	LS	1	\$1,000	\$1,000
Install oil water separator	LS	1	3,750	3,750
Install wash rack	LS	1	5,000	5,000
Install sewer line	LF	250	30.00	7,500
Install paving access ramps	SY	300	8.50	2,550
Sub Total:				\$19,800
OVERHEAD & PROFIT (25%)				4,950
PROJECT TOTAL:				24,750
CONTINGENCY (0%)				0
TOTAL REQUEST				\$24,750

Estimates are: X Current Year / FY 01 Dollars

Prepared By: LTC Garner

Date Prepared: 1 JUN 2001

2. COST ESTIMATE NUMBER: PA009-02

TYPE PROJECT: New Work Repair ___ Maintenance ___ EIP ___ Other (*specify*)

RECOMMENDED METHOD OF ACCOMPLISHMENT:

DESIGN: A/E Contract ___ 416th ENCOM ___ Not Required Other

CONSTRUCTION: Contract Local Purchase ___ Self Help/Troop

SDEH In-House ___ Other _____

SHORT JOB DESCRIPTION: REPAIR, SEAL, AND STRIPE PAVEMENT. NOTE THAT THIS SHOULD BE DONE IN CONJUNCTION WITH THE REQUESTED MEP/POV PARKING EXPANSION.

DESCRIPTION OF WORK: DETAILED COST ESTIMATE: (SHEET 1 OF 1)

ITEM	UM	QTY	UNIT COST	TOTAL COST
Clean and repair pavement cracks, apply slurry coat, and apply new line painting	SY	3000	3.25	\$9,750
Sub Total:				\$9,750
OVERHEAD & PROFIT (25%)				2,450
PROJECT TOTAL:				\$12,200
CONTINGENCY (0%)				0
TOTAL REQUEST				\$12,200

Estimates are: Current Year / FY 01 Dollars

Prepared By: LTC Garner

Date Prepared: 1 JUN 2001

WORK ORDER LIST REPORT

May 11, 2001
10:37 AM

Sort Criteria: Program Year

Selection Criteria: Project Status <> 12, AND Project Status <> 99, AND Requirement Type <> ARR, AND Facility ID = PA009

Remarks	Work Order ID	Work Order Description	Command Priority	Date Received	FAC ID	Facility Name	Req Type	Fund Stat	Proj Stat	Estimate Comments	AMSCO	Est Cost	Est Total
13	VA0130141P	Instal Elec Control Entry Sys		2001/03/16	PA009	BLOOMSBURG USARC	OTR U		1T	ELECT CONTROL ENTRY	132R76L1000	4,500.00	
12	VA0000186P	ALTER/EXPAND MOTOR POOL FENCE	0	1996/07/25	PA009	BLOOMSBURG USARC	OTR U		1	EXTEND FENCE	132R76L1000	75,000.00	75,000.00
	VA0127C49P	Repair Bathrooms	0	1999/05/03	PA009	BLOOMSBURG USARC	OTR U		1A	Repair Bathrooms	132R78B1000	60,000.00	60,000.00

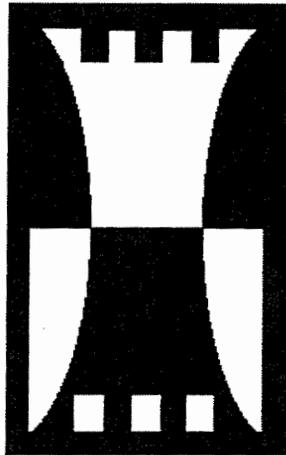
TOTAL ESTIMATED COST: \$135,000.00
TOTAL WORK ORDERS: 3

All REQUESTED WORK VERIFIED

1 JUN 2001

D. J. Ammer
LTC, EN, USAR

DEPARTMENT OF THE ARMY
UNITED STATES ARMY FACILITY ENGINEER GROUP
416TH ENGINEER COMMAND
TDA AUGMENTATION
10 South 100 Frontage Road
Darien, IL 60561-1780



ARMS VAULT FACILITY STRUCTURAL CERTIFICATION

For

Bloomsburg USAR Center

Bloomsburg, Pennsylvania
Facility I.D. No. PA007

Date of Visit: 31 MAY – 1 JUN 2001

PREPARED BY:

U.S. ARMY FACILITY ENGINEER GROUP (FEG)
FACILITY ENGINEER CENTER – NORTHEAST

FORT INDIANTOWN GAP
FACILITY ENGINEER TEAM
Annville, Pennsylvania

SECTION 1: FACILITY IDENTIFICATION

INSTALLATION NAME: BLOOMSBURG USAR CENTER

INSTALLATION NUMBER: PA009

STREET ADDRESS: 1469 Old Berwick Road

CITY/TOWN: Bloomsburg

STATE: PA

ZIP CODE: 17815-3027

RSC/RSG: 99th RSC

FACILITY TYPE:

A. USARC: X B. AFRC: ___ C. OMS: X D. FLIGHT: ___
 E. DS/GS: ___ F. MED: ___ G. WET: ___ H. FLIGHT: ___
 I. ECS: ___ J. CTF: ___ K. OTHER: ___

ASSESSMENT PERFORMED BY: Ft. Indiantown Gap FET
 FACILITY ENGINEER TEAM INCLUDED:

LTC Doug Garner
 MAJ John Holtzman
 SFC Tom Byers

REFER TO FOR INFORMATION: LTC Doug Garner

Work: (607) 770-2696 Home: (607) 798-6650

PERSONNEL CONTACTED ON SITE:

NAME/GRADE	DUTY POSITION	PHONE NUMBER	E-MAIL
Ms. Amanda Beeghly	UA/Fac. Coordinator	(570) 784-4746	
SFC Calvin Creswell	Alt. Fac. Coord/Plt Sgt.	(570) 784-4746	
Ms. Kendra Borka	Environmental Specialist	(215) 443-1667	

ASSESSMENT CONDUCTED FROM: 31 MAY 2001/0930 TO: 01 JUN 2001/1200

DATE OF LAST ASSESSMENT: 4-5 FEB 1997



REPLY TO
ATTENTION OF:

DEPARTMENT OF THE ARMY
U.S. ARMY FACILITY ENGINEER GROUP
FACILITY ENGINEER CENTER - NORTHEAST
FT. INDIANTOWN GAP TEAM
FTIG BLDG 19-76, FISHER AVENUE
ANNVILLE, PA 17003-5029

ENCLOSURE D

AFRC-ENIL-FE-E

01 JUN 2001

MEMORANDUM FOR: Ms. Amanda Beeghly
Bloomsburg USAR Center
1469 Old Berwick Road
Bloomsburg, PA 17815-3027

SUBJECT: Arms Vault Security Construction Statement: Bloomsburg USAR Center,
Bloomsburg, PA009

1. Enclosed for your information and use are two copies of DA Form 4604-R (Security Construction Statement) for the Arms Vault (Room 121) which is required to be posted inside the vault to document that the facility is in compliance with AR 190-11 dated 12 February 1998.
2. One of the copies should be kept in the unit administrator's permanent files in the U.S. Army Reserve Center. The other copy should be mounted to either the interior wall of the arms vault or the interior vault door surface.
3. The DA Form 4604-R shall be reviewed during physical security surveys and inspections and revalidated by engineer personnel every five years as per paragraph 2-2d of AR 190-11.
4. Point of contact for this action is LTC Garner, telephone: (607) 770-2696.

Encl

DOUGLAS F. GARNER
LTC, EN, USAR
Team Leader

CF: 99th RSC Provost Marshal's Office, 5 Lobaugh Street, Oakdale, PA 15071

SECURITY CONSTRUCTION STATEMENT		
For use of this form, see AR 190-11; the proponent agency is ODCSOPS		
INSTRUCTIONS		
<p>This form will be prepared in three copies. The original will be maintained permanently in the files of the individual signing the form. The first copy will be maintained in the using unit/organizational files. The second copy will be filed permanently in the arms/ammunition storage facility. All entries except item 7 will be typed written.</p>		
<p>1. THE CONSTRUCTION OF THIS FACILITY CONFORMS TO THE CRITERIA OF AR 190-11 WHICH IS IN EFFECT ON THIS DATE EXCEPT AS INDICATED HEREON</p> <p>I AW Paragraph 2.2.d of AR 190-11 dated 12 February 1998, the undersigned conducted a visual revalidation inspection of the arms vault. The arms vault of this facility appears to meet the construction standards for Category II storage of arms, ammunition, and explosives.</p> <p>The IDS of this facility meets the acceptable standards as outlined in Paragraph 3.6.a of AR 190-11, dated 12 February 1998.</p> <p>The vault was modified by the installation of expanded metal reinforcement on the walls and ceiling.</p>		
<p>2. ROOM AND BUILDING NUMBER, STREET AND INSTALLATION ADDRESS</p> <p>Room #109 Bloomsburg USAR Center 1469 Old Berwick Road Bloomsburg, PA 17815-3027</p>		
<p>3. THIS APPLIES TO</p> <p>a. <input type="checkbox"/> AN EXISTING STRUCTURE b. <input type="checkbox"/> CONSTRUCTION OF NEW FACILITY c. <input checked="" type="checkbox"/> MODIFICATION OF EXISTING FACILITY (<i>Explain</i>) Installation of expanded metal reinforcement on walls and ceiling</p>		
<p>4. NAME OF OFFICIAL SIGNING IN ITEM 7 BELOW</p> <p>Douglas F. Garner, PE</p>	<p>GRADE</p> <p>LTC, EN, USAR</p>	<p>6. ADDRESS OF OFFICIAL</p> <p>Building 19-76 Ft. Indiantown Gap Annville, PA 17003</p>
<p>5. ORGANIZATION</p> <p>FIG FE Team Facility Engineer Center – NE U.S. Army Facility Engineer Group</p>		
<p>7. SIGNATURE</p> 		<p>DATE SIGNED</p> <p>01 JUN 2001</p>
<p>DA FORM 4604-R, 1 MAR 77</p>		

ARMS VAULT CERTIFICATION CHECK LIST
Existing Construction

FACILITY: Bloomsburg USAR Center
 1469 Old Berwick Road
 Bloomsburg, PA 17815-3027

POINT OF CONTACT: Amanda Beeghly
 Phone Number: (570) 784-4746

<u>A. FLOORS</u>	<u>YES</u>	<u>NO</u>
1. ** 6-inch concrete slab on grade reinforced with 6-inch by 6-inch 4.0/4.0 WWF minimum or the equivalent reinforcing steel bars.	<u>X*</u>	_____
2. ** 6-inch minimum thickness concrete slab reinforced with # 4 bars or larger forming a grid pattern that does not exceed 96 square inches (where the floor forms the ceiling of an underlying room or area).	_____	_____
3. 6-inch minimum thickness reinforced concrete slab (either WWF or rebar, no minimum size reinforcement or minimum spacing of reinforcement specified).	_____	_____
<u>B. WALLS*</u>		
1. ** 8-inch thick reinforced concrete with # 4 bars at 9 inches on center in each direction (vertical & horizontal).	_____	_____
2. ** 8-inch thick concrete masonry with # 4 bars threaded through concrete masonry unit cavities (no spacing specified). Cells of concrete masonry unit cavities are filled with mortar or concrete. Horizontal joint reinforcement is provided at each course.	_____	_____
3. 8-inch thick reinforced solid brick wall; or	_____	_____
4. 8-inch thick reinforced concrete masonry with cells of concrete masonry unit cavities filled with concrete (no minimum size reinforcing or spacing specified); or	_____	_____
5. The walls are constructed of 12-inch thick non-reinforced solid brick masonry.	_____	_____
6. Other: The walls are constructed of 8 inch thick non reinforced concrete masonry that has been reinforced on the inside vault surface with 6 gauge wire steel welded together and secured to 3"x3" steel angle bolted to the masonry, forming a grid of not more than 2 inches center to center, in accordance with AR 190-11, Appendix G-3(e).	<u>X</u>	_____

Note: Another incomplete specification is provided for a masonry block wall, but is unusable as written in the AR. Walls that do not meet any of the above criteria must be reinforced using one of the 7 methods specified in Appendix G-2.b.

ENCLOSURE D

C. CEILING

YES NO

Note: Items shown in **Bold** typeface are minimum mandatory standards. If the YES column entry can not be checked or one of the better standards is not met, the vault is not in compliance with AR 190-11 dated 12 February 1998, and can not be certified for the storage of Category II and III arms and ammunition.

1. ** 6-inch minimum thickness concrete slab reinforced with # 4 bars or larger forming a grid pattern that does not exceed 96 square inches.

** Indicates new facility construction criteria which is better than existing structure criteria.

2. **6-inch minimum thickness reinforced concrete (no minimum size or minimum spacing of reinforcement specified).**
3. Concrete Pan Joists: Thinnest portion of the joist not less than 6-inches and the clear space between joists does not exceed 20-inches.
4. **Other: The walls are constructed of 8 inch thick non reinforced concrete masonry that has been reinforced on the inside vault surface with 6 gauge wire steel welded together and secured to 3"x3" steel angle welded to the walls, forming a grid of not more than 2 inches center to center, in accordance with AR 190-11, Appendix G-3(e).** X

D. DOORS (Reserve Centers)

1. GSA approved Class 5 steel door (Fed. Spec. AA-D-600B) with a built in 3 position, dial type, changeable combination lock used in lieu of the door described below (not required). X
2. Day Gate provided (not required).
3. Pass through window provided within Day Gate (not required).
4. ** Door is 1-3/4 inch thick solid core wood or laminated wood with 12-gauge metal plate securely attached to the outside face.
5. ** Door is 1-3/4 inch thick hollow, metal industrial type construction with minimum 14-gauge skin plate thickness, internally reinforced vertically with continuous steel stiffeners spaced 6-inches maximum on center.
6. Two doors provided to arms vault. One door as described in E4 or E5 above. (Double door protection is not required).
7. **Door is 1-3/4 inch thick solid core wood with wood block cores; or**
8. **Door is 1-3/4 inch thick hollow type construction with minimum 16-gauge skin plate thickness. Note that a steel bar door has been added to the exterior of the vault with a Miracle Lock padlock on a through-bolted steel frame.**

E. DOORS AND HARDWARE

YES NO

1. ** Door bucks, frames and keepers are rigidly anchored and provided with antispread space filler reinforced to prevent disengagement of the lock bolt by prying or jacking the doorframe. X
2. ** Frames and locks for interior and exterior doors are so designed and

ENCLOSURE D

- | | | | |
|-------|---|----------|-----|
| | installed as to prevent sufficient removal of the frame facing or the built in locking mechanism to allow disengagement of the lock bolt from the outside when the door is closed and locked. | <u>X</u> | ___ |
| 3. ** | Door hinges are fixed pin security type. Exposed hinge pins will be pinned, spot welded or otherwise secured to prevent removal, and Hinge-mounting screws are not exposed to the outside of the arms vault (except for Class 5 steel vault door hinges). | <u>X</u> | ___ |
| 4. | Doorframes will be a minimum of 16-gauge steel; and | <u>X</u> | ___ |
| 5. | Door hinges shall not be exposed to the outside of the arms storage area and hinge pins shall be secured to prevent removal; and | <u>X</u> | ___ |
| 6. | Doors shall be secured with authorized padlocks [KEYS]. | ___ | ___ |

Note: Items shown in **Bold** typeface are minimum mandatory standards. If the YES column entry can not be checked or one of the better standards is not met, the vault is not in compliance with AR 190-11 dated 12 February 1998, and can not be certified for the storage of Category II and III arms and ammunition.

** Indicates new facility construction criteria which is better than existing structure criteria.

F. WINDOWS AND OTHER OPENINGS

- | | | | |
|-------|--|----------|-----|
| 1. | No openings existing in walls or ceilings. | <u>X</u> | ___ |
| 2. ** | All openings greater than 96 square inches are protected by rod-and-bar grid as required in Appendix G-1.e. | ___ | ___ |

G. ARMS ROOM ANCHOR RINGS

- | | | | |
|----|---|----------|-----|
| 1. | Anchor rings provided in arms room floor or walls to secure arms racks. | ___ | ___ |
| 2. | Weapons racks secured to metal wall/ceiling expanded metal framework. | <u>X</u> | ___ |

H. INTRUSION DETECTION SYSTEM (IDS)

- | | | | |
|----|---|----------|-----|
| 1. | Intrusion detection system provided for vaults as required in AR 190-11, to include two types of sensors, one of which must be a volumetric sensor; and | <u>X</u> | ___ |
| 2. | Alarms at local law enforcement/contract security alarm monitoring station. | <u>X</u> | ___ |
| 3. | Is there a sign (constructed in accordance with Appendix F, AR 190-11) announcing the presence of the IDS prominently displayed at eye level on the exterior of each interior wall that contains an entrance to the vault; and | <u>X</u> | ___ |
| 4. | The vault is designated and posted as a restricted area in accordance with AR 190-13. | <u>X</u> | ___ |

I. SECURITY LIGHTING

1. **Entrance door to arms vault is illuminated by lighting, or, when the vault is located within another room, the entrance door to the room is illuminated.** X

J. MECHANICAL

1. Electrical Dehumidifier provided for vault humidifier control. X
 2. 3-inch floor drain provided for dehumidifier. X
 Additionally, vault is fitted with ventilation.

K. DA FORM 4604-R SECURITY CONSTRUCTION STATEMENT

1. DA FORM 4604-R posted on an interior surface of the vault as required by AR190-11, Section 2.2.d. X
 2. DA FORM 4604-R reviewed and revalidated by Engineer personnel within the last 5 years as required by AR190-11, Section 2.2.d. X

L. SUMMARY

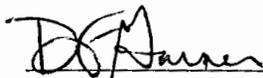
1. This facility meets Class II storage requirements for weapons. X

Note: Items shown in **Bold** typeface are minimum mandatory standards. If the YES column entry can not be checked or one of the better standards is not met, the vault is not in compliance with AR 190-11 dated 12 February 1998, and can not be certified for the storage of Category II and III arms and ammunition.

** Indicates new facility construction criteria which is better than existing structure criteria.

M. WAIVERS, UNUSUAL REQUIREMENTS AND ADDITIONAL FEATURESN. CERTIFICATION OF COMPLIANCE WITH CRITERIA SET FORTH IN AR 190-11

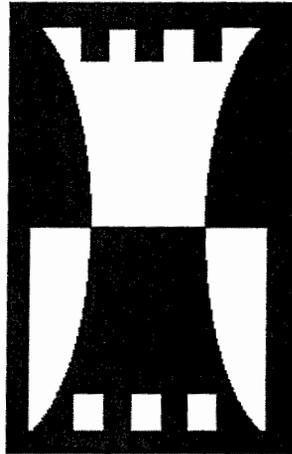
This facility meets the minimum structural criteria specified in Appendix G-2 of AR 109-11 dated 12 February 1998 for existing facilities located either on or off a military installation, and therefore meets the minimum structural standards for the storage of Category II and Category III arms. In addition, the storage of small quantities of Category II and Category III ammunition may be authorized by the commander to be stored in the vault with the weapons in accordance with the provisions of Section 5-8c.(1)(a) of AR 190-11.



DOUGLAS F. GARNER, PE
 LTC, EN, USAR
 Team Leader, U.S. Army FEG

Date: 01 JUN 2001

DEPARTMENT OF THE ARMY
UNITED STATES ARMY FACILITY ENGINEER GROUP
416TH ENGINEER COMMAND
TDA AUGMENTATION
10 South 100 Frontage Road
Darien, IL 60561-1780



SPACE UTILIZATION

For

Bloomsburg USAR Center

Bloomsburg, Pennsylvania
Facility I.D. No. PA009

Date of Visit: 31 MAY – 1 JUN 2001

PREPARED BY:

FACILITY ENGINEER GROUP (416th ENCOM)
FACILITY ENGINEER CENTER - NORTHEAST

FORT INDIANTOWN GAP
FACILITY ENGINEERING TEAM
Annville, Pennsylvania

SECTION 1: FACILITY IDENTIFICATION

INSTALLATION NAME: BLOOMSBURG USAR CENTER

INSTALLATION NUMBER: PA009

STREET ADDRESS: 1469 Old Berwick Road

CITY/TOWN: Bloomsburg

STATE: PA

ZIP CODE: 17815-3027

RSC/RSG: 99th RSC

FACILITY TYPE:

A. USARC: X B. AFRC: ___ C. OMS: X D. FLIGHT: ___
 E. DS/GS: ___ F. MED: ___ G. WET: ___ H. FLIGHT: ___
 I. ECS: ___ J. CTF: ___ K. OTHER: ___

ASSESSMENT PERFORMED BY: Ft. Indiantown Gap FET

FACILITY ENGINEER TEAM INCLUDED:

LTC Doug Garner
 MAJ John Holtzman
 SFC Tom Byers

REFER TO FOR INFORMATION: LTC Doug Garner

Work: (607) 770-2696 Home: (607) 798-6650

PERSONNEL CONTACTED ON SITE:

NAME/GRADE	DUTY POSITION	PHONE NUMBER	E-MAIL
Ms. Amanda Beeghly	UA/Fac. Coordinator	(570) 784-4746	
SFC Calvin Creswell	Alt. Fac. Coord/Plt Sgt.	(570) 784-4746	
Ms. Kendra Borka	Environmental Specialist	(215) 443-1667	

ASSESSMENT CONDUCTED FROM: 31 MAY 2001/0930 TO: 01 JUN 2001/1200

DATE OF LAST ASSESSMENT: 4-5 FEB 1997

BLOOMSBURG USAR CTR, BLOOMSBURG, PA. REAL PROPERTY/SQUARE FOOTAGE SUMMARY
FACILITY DATA - PA009

MAIN BUILDING

Room Number	Room Name	Room Dimensions			Room Area (nsf)	Room Volume (cf)	HVAC Code #1.	Use Code #2.	User	Remarks
		Length (ft)	Width (ft)	Height (ft)						
100	Office	19.2	12.8	10.9	245.8	2684.4	HA	IA1		*
101	Office	19.2	9.8	10.9	188.3	2056.7	HA	IA3		*
102	Kitchen	12.0	7.0	10.9	84.0	917.3	HA	IC		*
103	Janitor's Closet	6.5	3.0	8.5	19.5	165.8	HA	II-4		*
104	Supply	19.2	16.0	10.9	306.6	3347.6	HA	IF3		*
105	Building Supply	19.2	10.2	10.9	194.7	2125.7	HA	IF7		*
105.A	Mens Toilet	11.2	9.7	9.0	107.8	970.3	HA	III1		*
106	Female Toilet	9.7	7.0	7.7	67.6	518.0	HA	III2		*
107	Classroom	24.8	19.0	10.9	471.8	5151.7	HA	IE1		*
108	Classroom	24.8	19.0	10.9	471.8	5151.7	HA	IE1		*
109	Arms Vault	19.2	14.8	10.9	282.6	3086.1	HA	ID1		*
110	Mailroom/ Unit Office	19.2	14.0	10.9	268.2	2929.2	HA	IA5		*
111	Vestibule	8.0	8.0	8.3	64.0	533.1	HA	IA6		*
112	Mechanical Room	19.3	15.5	10.9	298.4	3258.3	U	III7		*
C1	Corridor	61.5	10.0	8.5	615.0	5227.5	HA	CA		
C2	Corridor	7.5	3.7	8.0	27.5	219.6	HA	CA		
C3	Corridor	8.0	12.3	8.5	98.0	833.0	HA	CA		
Total Center Net Area (NSF)					3071.1	32895.8				
Circulation Net Area (Actual)					740.5	6280.1				
Structure (Actual)					0.0	0.0				
Total Center Gross Area (GSF)					3811.5	39175.9				

OMS

Room No	Room Name	Room Dimensions			Room Area (nsf)	Room Volume (cf)	HVAC Code #1.	Use Code #2.	User	Remarks
		Length (ft)	Width (ft)	Height (ft)						
M1	OMS Bay	37.3	26.0	14.8	970.6	14316.1	H	IIA9		*
M2	OMS Office	19.3	7.5	8.0	145.0	1159.8	HA	IIA1		
M3	POL Storage Room	6.0	6.0	8.5	36.0	306.0	U	IIA6		
Total Center Net Area (NSF)					1151.6	15781.9				
Circulation Net Area (Actual)					0.0					
Structure (Actual)					-1151.6					
Total Center Gross Area (GSF)										

GENERAL NOTES:

- 1. * Several rooms in the Main Reserve Center Building have sloping ceilings.

NOTES:

- Note 1: See HVAC Code Legend
- Note 2: See EMAR Facility Data Use Code Legend

LEGENDS	
EMAAR FACILITY DATA USE CODE LEGEND	
FROM DA FORM 5034-R, JAN 94 REFERENCE AR 140-483	
I. TRAINING BUILDING	II. MAINTENANCE SHOPS
A. ADMINISTRATIVE AREAS	A. ORGANIZATIONAL MAINTENANCE
(1) FULL TIME	(1) SHOP OFFICE
(2) UNIT EXCLUSIVE	(2) UNISEX TOILET
(3) UNIT COMMON	(3) TOOL & PARTS ROOM
(4) RETENTION	(4) STORAGE ROOM
(5) ADMINISTRATIVE SUPPORT	(5) BATTERY ROOM
(a) GENERAL	(6) FLAMMABLE STORAGE
(b) RCAS	(7) CONTROLLED WASTE STORAGE
(6) LOBBY	(8) HAZARDOUS MATERIALS STORAGE
B. ASSEMBLY AREA	(9) SERVICE BAY
(1) ASSEMBLY AREAS	B. AREA MAINTENANCE SUPPORT
(2) CHAIR AND TABLE STORAGE	(1) SHOP OFFICE
C. KITCHEN - STD DESIGN	(2) MEN'S TOILET
D. WEAPONS AREA	(3) WOMEN'S TOILET
(1) VAULT	(4) LOCKER ROOM
(2) ARMORER	(5) CLASSROOM/BREAK AREA
E. EDUCATIONAL AREAS	(6) TOOL ROOM
(1) CLASSROOMS	(7) SUPPLY ROOM
(2) LIBRARY READING ROOM	(8) BATTERY ROOM
(3) LIBRARY STORAGE	(9) COMMO/ELECTRONICS SHOP
(4) LEARNING CENTER	(10) INSTRUMENT REPAIR
(5) TRAINING AIDS STORAGE	(11) SMALL ARMS REPAIR
(6) COMSEC TRAINING	(12) SMALL ARMS VAULT
(7) COMSEC STORAGE	(13) FLAMMABLE STORAGE
(8) USARF INSTRUCTOR ROOM	(14) CONTROLLED WASTE STORAGE
(9) USARF PUBLICATIONS STORAGE	(15)
F. STORAGE AREAS	(16)
(1) UNIT/INDIVIDUAL	(17)
(2) STAGING AREA	C. JOINT MAINT AREAS (OMS/AMSA)
(3) SUPPLY OFFICE	(1) WORK BAYS
(4) JANITORIAL STORAGE	(2) MECHANICAL/CUSTODIAL
(5) FLAMMABLE STORAGE	(3)
(6) CONTROLLED WASTE	
(7) FACILITY MAINTENANCE	III. UNHEATED STORAGE
G. SPECIAL TRAINING AREAS	A. UNIT/INDIVIDUAL STORAGE
(1) RIFLE RANGE	B. STAGING AREA
(2) PHOTO LAB	
(3) BAND ROOM	IV. SUPPORTING FACILITIES
(4) MEDICAL SECTION	A. PRIVATELY-OWNED VEHICLE
(5) PHYSICAL EXAM WING	(1) PARKING - CENTER (SY)
(6) SCIF	(2) PARKING - AMSA (SY)
(7) SOIL TESTING LAB	B. MILITARY EQUIPMENT PARK
(8) G.O. CONFERENCE	(1) OMS (SY)
(9) DRAFTING ROOM	(2) AMSA (SY)
(10) PHYSICAL READINESS	C. WASH PLATFORMS
(11) WWNCCS	(1) OMS (EA)
(12)	(2) AMSA (EA)
H. SUPPORT AREA	D. COVERED STORAGE (SF)
(1) MEN'S TOILETS & SHOWERS	E. MEP FENCING (LF)
(2) WOMEN'S TOILETS & SHOWERS	F. MEP LIGHTING (EA)
(3) UNISEX HANDICAP TOILET	G. ACCESS ROADS (SY)
(4) LOCKER ROOM	
(5) VENDING ALCOVE	HVAC CODE LEGEND
(6) BREAK AREA	
(7) MECHANICAL	H: Room Heated Only
(8) ELECTRICAL	A: Room Air-Conditioned Only
(9) TELEPHONE	HA: Room Heated & Air-Conditioned
	U: Room is Unconditioned

FACILITY DATA SUMMARY			DATE: 31 MAY - 1 JUN 01
BLOOMSBURG, PA USAR Center			FACILITY: PA009
			LOCATION: BLOOMSBURG,PA
	Existing Area (nsf)	Area Subtotals (nsf)	Total (nsf)
I. TRAINING BUILDING			
A. ADMINISTRATIVE AREAS		2542	2542
(1) FULL TIME	475		
(2) UNIT EXCLUSIVE	380		
(3) UNIT COMMON	1212		
(4) RETENTION			
(5) ADMINISTRATIVE SUPPORT			
(a) GENERAL	475		
(b) RCAS			
(6) LOBBY			
B. ASSEMBLY AREA		3500	3500
(1) ASSEMBLY AREAS	3500		
(2) CHAIR AND TABLE STORAGE			
C. KITCHEN	157	157	157
D. WEAPONS AREA		160	160
(1) VAULT	160		
(2) ARMORER			
E. EDUCATIONAL AREAS		1735	1735
(1) CLASSROOMS	1545		
(2) LIBRARY READING ROOM			
(3) LIBRARY STORAGE			
(4) LEARNING CENTER			
(5) TRAINING AIDS STORAGE			
(6) COMSEC TRAINING			
(7) COMSEC STORAGE			
(8) TRAINING OFFICE	190		
(9) USARF PUBLICATIONS STORAGE			
F. STORAGE AREAS		1207	1207
(1) UNIT/INDIVIDUAL EQUIPMENT	639		
(2) STAGING AREA			
(3) SUPPLY OFFICE	409		
(4) JANITORIAL STORAGE	22		
(5) FLAMMABLE STORAGE			
(6) CONTROLLED WASTE STORAGE			
(7) FACILITY MAINTENANCE	138		
G. SPECIAL TRAINING AREAS			
(1) RIFLE RANGE			
(2) PHOTO LAB			
(3) BAND ROOM			
(4) MEDICAL SECTION AREA			
(5) PHYSICAL EXAM WING			
(6) SCIF			
(7) SOILS TESTING LAB			
(8) G.O. CONFERENCE ROOM			
(9) DRAFTING ROOM			
(10) PHYSICAL READINESS AREA			
(11) AGCCS			

(12)			
(13)			
(14)			
(15)			
(16)			
(17)			
(18)			
	Existing Area (nsf)	Area Subtotals (nsf)	Total (nsf)
H. SUPPORT AREA		997	957
(1) MEN'S TOILETS & SHOWERS	342		
(2) WOMEN'S TOILETS & SHOWERS	110		
(3) UNISEX HANDICAP TOILET			
(4) LOCKER ROOM			
(5) VENDING ALCOVE			
(6) BREAK AREA			
(7) MECHANICAL/CUSTODIAL	505		
(8) ELECTRICAL			
(9) TELEPHONE			
TOTAL CENTER NET TRAINING AREA			9048
CIRCULATION ALLOWANCE (ACTUAL)			1212
STRUCTURAL ALLOWANCE			1547
TOTAL CENTER NET TRAINING AREA			
OUTGRANTED AREA			
TOTAL CENTER GROSS AREA			11807
II. MAINTENANCE SHOPS (AMSA, BMA, OMS)			2324
A. MAINTENANCE SHOP (BMA/OMS)		2324	
(1) SHOP/ OFFICE			
(2) UNISEX TOILET			
(3) TOOL & PARTS ROOM			
(4) STORAGE ROOM			
(5) BATTERY ROOM			
(6) FLAMMABLE STORAGE	36	36	36
(7) CONTROLLED WASTE STORAGE			
(8) HAZARDOUS MATERIAL STRG.			
(9) SERVICE BAY	2288	2288	2288
B. AREA MAINTENANCE SUPPORT		0	
(1) SHOP OFFICE			
(2) MEN'S TOILET			
(3) WOMEN'S TOILET			
(4) LOCKER ROOM			
(5) CLASSROOM/BREAK AREA			
(6) TOOL ROOM			
(7) SUPPLY ROOM			
(8) BATTERY ROOM			
(9) COMMO/ELECTRONICS SHOP			
(10) INSTRUMENT REPAIR			
(11) SMALL ARMS REPAIR			
(12) SMALL ARMS VAULT			
(13) FLAMMABLE STORAGE			
(14) CONTROLLED WASTE STORAGE			

(15)			
(16)			
(17)			
C. JOINT MAINT AREAS (AMSA/BMA/OMS)		0	
(1) WORK BAYS			
(2) MECHANICAL/CUSTODIAL			
(3)			
(4)			
TOTAL SHOP NET AREA			
STRUCTURAL ALLOWANCE			
TOTAL SHOP GROSS AREA			
OUTGRANTED AREA			
TOTAL SHOP AVAILABLE GROSS AREA			
	Existing Area (nsf)	Area Subtotals (nsf)	Total (nsf)
III. EQUIPMENT STORAGE			
UNHEATED STORAGE			
(1) UNIT/INDIVIDUAL STORAGE			
(2) STAGING AREA			
TOTAL UNHEATED STORAGE NET AREA			
STRUCTURAL ALLOWANCE			
TOTAL UNHEATED STORAGE GROSS AREA			
OUTGRANTED AREA			
TOTAL UNHEATED STORAGE AVAIL. GROSS AREA			
IV. SUPPORTING FACILITIES			
A. PRIVATELY-OWNED VEHICLE			
(1) PARKING - CENTER (SY)	1787	1787	
(2) PARKING - AMSA/BMA/OMS (SY)			
B. MILITARY EQUIPMENT PARK			
(1) AMSA (SY)			
(2) BMA (SY)			
(3) OMS (SY)	2620	2620	
C. WASH PLATFORMS			
(1) AMSA (EA)			
(2) BMA (EA)			
(3) OMS (EA)	1	1	1
D. COVERED STORAGE (SF)	0	0	0
E. MEP FENCING (LF)	560	560	560
F. MEP LIGHTING (EA)	6	6	6
G. ACCESS ROADS (SY)	390	390	390

REMARKS:

- Above paragraph numbers correspond with paragraph numbers contained on DA Form 5034-R (Project Documentation Space Allowance Worksheet).
- Refer to Bloomsburg USAR CTR Real Property/Square Footage Summary, PA009.
- Areas, both net square feet (NSF) & gross square feet (GSF), were derived from tape measurements & drawings.
- Exterior lighting fixtures for USARC and POV lot = 7.

**U.S. ARMY FACILITY ENGINEER GROUP
USAR FACILITY
ENGINEERING and ENVIRONMENTAL FACILITY ASSESSMENT (E2FA)**

INSTALLATION NAME: Bloomsburg USAR Center (Bloomsburg, PA)
INSTALLATION NUMBER: PA009 DATE: 2 Dec 2004

TABLE OF CONTENTS

<u>SECTION</u>	<u>DESCRIPTION</u>
1.	EXECUTIVE SUMMARY
2.	FACILITY IDENTIFICATION
3.	FACILITY DATA <ul style="list-style-type: none">a. IFS Worksheetb. Space Summary
4.	GRAPHICA DATA <ul style="list-style-type: none">a. Vicinity Mapb. Location Mapc. Site Pland. Building Floor Plans

ENCLOSURES

- A. ENVIRONMENTAL COMPLIANCE ASSESSMENT
- B. REAL PROPERTY MAINTENANCE (RPMA) WORK REQUIREMENTS
- C. ARMS STORAGE FACILITY STRUCTURAL REVALIDATION

SECTION 1: EXECUTIVE SUMMARY

INSTALLATION NAME: Bloomsburg USAR Center (Bloomsburg, PA)
INSTALLATION NUMBER: PA009

1. The Ft. Indiantown Gap Facility Engineer Team (Team) conducted an Engineering and Environmental Facility Assessment (E2FA) for the Bloomsburg USAR Center on 2 DEC 2004. The center consists of two buildings; the main single story building (approximately 4,337 gross SF) and one-bay OMS (approximately 1,206 gross SF). Both buildings are constructed of concrete block and brick veneer originally constructed in 1956 (Main Building) and 1965 (OMS). The center capacity is 25 man, however the unit greatly exceeds this capacity. There is a POV parking area and a fenced MEP. The size of the entire site is approximately 2.1 acres. The center is surrounded by residential properties on all sides. The facility is occupied by the following unit:

UNIT	Assigned Strength	Authorized Strength	Full-Time	
			Military	Civilian
814 th Quartermaster Co. (-)	65	117	5	1

2. Since its construction in 1956/1965, there have been several system upgrades/replacements, including; energy efficient windows and doors (Ca. 1990), central heating and air conditioning system (1990), suspended ceiling grid in hallways (1990), and exterior doors new trusses, and stone ballasted EPDM roofing on both buildings (Ca. 1990). The men’s and women’s restroom have been totally rebuilt this year. The main building heating system is natural gas forced hot air with central air conditioning (2 of the 3 air handling systems). The OMS is heated by one (1) gas-fired unit heaters and one (1) natural gas infrared heater.

3. The Environmental Compliance inspection documented 9 findings including four Class II Regulatory, three Regulatory Health and Safety, and two Class III Management. Significant findings are summarized as follows:

- The OMS wash rack drains to a leaching pit that is not connected to an oil/water separator or the public sewer system.
- Asbestos containing materials are present in the main building; however an asbestos management plan was not available for review.
- Follow-up Radon testing had not been conducted after the installation of a radon mitigation system.
- Annual chemical inventories are not being conducted.
- Key facility environmental personnel have not attended environmental training.
- Spill kits should be stored where hazardous materials are being stored.
- The facility does actively engage in the community recycling program. This is a positive finding.

4. The latest riser report was not available for review.

5. The assessment identified 8 RPMA projects totaling \$ 96,094. The main center building has 4 projects, the OMS building 1 project, the POV and MEP areas 2 projects,

and the site 1 project. All the projects with the exception of POV/MEP, and the site project are below an estimated cost of \$ 2,500.

Thought the costs for the repairs in the main building are minimal, it is expedient to have them corrected as soon as possible, to preclude further damage. The damage consists of re-pointing several areas of brick veneer. The condensate line extending through the wall from the mechanical equipment room (MER) needs to be extended to minimize damage to the brick veneer. The rear of the center does not have exterior lighting, and poses a significant safety and security hazard.

The entire POV and MEP has extensive cracking and will require joint repair and overall sealing to preserve the existing bituminous asphalt. New line striping will be required after sealing.

The stone parking area at the MEP should be paved to provide a clean platform for parking and storage functions. This will also provide a safer environment for maintenance operations.

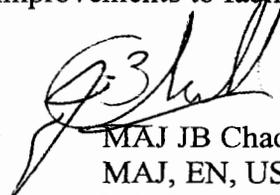
The entire center site is subject to trespass from the local residents in the area adjacent to the property due to a lack of security fencing. Fencing the entire footprint of the site will eliminate illegal trespass and provide a safety barrier for the center and neighbors.

The existing sidewalk around the center is in need of replacement, due to thermal expansion and contraction. The damaged areas should be cut out and replaced. The uneven surfaces present a trip hazard, and will only degenerate as time passes.

The wash rack does not have an oil/water separator, but drains to a leeching tank. An oil/water separator should be installed, and the leeching tank removed. If this cannot be done then the wash rack should be permanently closed and the drain sealed.

6. As part of the assessment, the condition of the Arms Room was evaluated to determine whether it meets revalidation requirements. Review of the facility indicates that it does not meet the minimum structural criteria specified in Appendix G-2 of AR 109-11 dated 12 February 1998.

7. The facility is striving to implement an active maintenance program, in light of the unit being deployed. All facility personnel were extremely helpful and cooperative. The facility Management Specialist and the Unit Administrator should be commended for their management practices that have resulted in improvements to facility maintenance.



MAJ JB Chadwick
MAJ, EN, USAR
FIG FET, Team Leader

SECTION 2: FACILITY IDENTIFICATION

INSTALLATION NAME: Bloomsburg USAR Center (Bloomsburg, PA)
INSTALLATION NUMBER: PA 009

STREET ADDRESS: 1469 Old Berwick Road
CITY/TOWN: Bloomsburg
STATE: PA
ZIP CODE: 17815
RSC/RSG: 99th Oakdale, PA

FACILITY TYPE:

A. USARC: X B. AFRC: C. OMS: X D. FLIGHT:
E. DS/GS: F. MED: G. WET: H. FLIGHT:
I. ECS: J. CTF: K. OTHER:

ASSESSMENT PERFORMED BY: Ft. Indiantown Gap FET
FACILITY ENGINEER TEAM INCLUDED:

MAJ JB Chadwick
MAJ George Williams
CPT Richard Long
SSG Marlin Zeis

REFER TO FOR INFORMATION: MAJ JB Chadwick

Work: (732) 225-6040 Home: (215) 547-2827

PERSONNEL CONTACTED ON SITE:

NAME/GRADE	DUTY POSITION	PHONE NUMBER	E-MAIL
Mr. Christopher Evans	Unit Administrator	(570) 784-4746	NA
1SG Tom Thomas	Unit First Sergeant	(570) 784-4746	NA

ASSESSMENT CONDUCTED FROM: 2 DEC 2004/1000 TO: 2 DEC 2004/1600

DATE LAST ASSESSMENT: 31 MAY 2001 – 01 JUN 2001

SECTION 3: FACILITY DATA

INSTALLATION NAME: Bloomsburg USAR Center (Bloomsburg PA)
INSTALLATION NUMBER: PA009

- a. IFS Worksheet
- b. Space Summary

a. IFS WORKSHEET

FACID: PA009

Site Visit Date: December 2, 2004

Site Name: Bloomsburg USAR Center

Building #1	<u>4337</u>	Gross Square Feet
Building #2	<u>1209</u>	Gross Square Feet
Building #3	<u> </u>	Gross Square Feet
Building #4	<u> </u>	Gross Square Feet
Building #5	<u> </u>	Gross Square Feet

POV Pavement 1804 Square Yards

MEP Pavement 512 Square Yards

Roads 495 Square Yards

Sidewalk 108 Square Yards

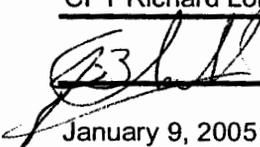
Fence Line 1838 Square Yards

	Width
Gate #1	<u>20</u>
Gate #2	<u> </u>
Gate #3	<u> </u>
Gate #4	<u> </u>
Gate #5	<u> </u>

Rolling	Hinged	Other
	X	

Gate type is either: 1) Slide-By/Rolling 2) Hinged or 3) Other

Completed by: CPT Richard Long

Verified by: 

Date: January 9, 2005

NOTES: If a measured number is not within 10% of preexisting data the difference needs to be documented.

b. SPACE SUMMARY

BLOOMSBURG-USAR CTR, BLOOMSBURG, PA- REAL PROPERTY/SQUARE FOOTAGE SUMMARY FACILITY DATA - PA009												
MAIN BUILDING												
Room Number	Room Name	Room Dimensions			Room Area (nsf)	Room Volume (cf)	HVAC Code #1.	Use Code #2.	User	Remarks		
		Length (ft)	Width (ft)	Height (ft)								
---	Building footprint	83.0	52.3	---	4337.0	---	---					
100	Office	19.2	12.8	10.9	245.8	HA	IA1		*			
101	Office	19.2	9.8	10.9	188.3	HA	IA3		*			
102	Kitchen	12.0	7.0	10.9	84.0	HA	IC		*			
103	Janitor's Closet	6.5	3.0	8.5	19.5	HA	IF4		*			
104	Supply	19.2	16.0	10.9	306.6	HA	IF3		*			
105	Female Latrine	19.2	9.5	7.8	182.4	HA	IH1		*			
106	Meas Toilet	19.2	9.5	7.8	182.4	HA	IH1		*			
107	Classroom	19.3	19.1	10.9	368.6	HA	IB1		*			
108	Classroom	19.3	19.1	10.9	368.6	HA	IB1		*			
NA	Office at Room 107	9.8	9.3	10.1	91.1	HA	IA5		*			
NA	Office at Room 107	9.9	9.2	10.1	91.1	HA	IA5		*			
109	Arms Vault	19.2	14.8	10.9	282.6	HA	ID1		*			
110	Mailroom/ Unit Office	19.2	13.8	10.9	264.4	HA	IA5		*			
111	Vestibule	8.5	8.0	8.4	68.0	HA	IA6		*			
112	Mechanical Room	19.3	15.6	10.9	300.3	U	IH7		*			
C1	Corridor	61.5	10.0	8.4	615.0	HA	CA					
C2	Corridor	7.5	3.7	8.0	27.5	HA	CA					
C3	Corridor	8.0	11.9	8.4	95.2	HA	CA					
Total Center Net Area (NSF)					3072.0	31729.4						
Circulation Net Area (Actual)					740.0	6185.3						
Structure (Actual)					525.0	0.0						
Total Center Gross Area (GSF)					4337.0	37914.7						
OMS												
Room No	Room Name	Room Dimensions			Room Area (nsf)	Room Volume (cf)	HVAC Code #1.	Use Code #2.	User	Remarks		
		Length (ft)	Width (ft)	Height (ft)								
---	Building footprint	44.8	27.0	---	1206.0	---	---					
M1	OMS Bay	38.5	26.0	16.3	1001.0	H	IIA9		*			
M2	OMS Office	19.0	6.3	8.0	119.7	HA	IIA1		*			
M3	POL Storage Room	6.3	6.0	8.0	37.8	U	IIA6		*			
Total Center Net Area (NSF)					1158.5	17576.3						
Circulation Net Area (Actual)					0.0							
Structure (Actual)					48.0							
Total Center Gross Area (GSF)					1206.0							

GENERAL NOTES:

1. * Several rooms in the Main Reserve Center Building have sloping ceilings.

NOTES:

Note 1: See HVAC Code Legend

Note 2: See EMAAR Facility Data Use Code Legend

LEGENDS

EMAAR FACILITY DATA USE CODE LEGEND

FROM DA FORM 5034-R, JAN 94 REFERENCE AR 140-483

I. TRAINING BUILDING		II. MAINTENANCE SHOPS	
A. ADMINISTRATIVE AREAS		A. ORGANIZATIONAL MAINTENANCE	
(1) FULL TIME		(1) SHOP OFFICE	
(2) UNIT EXCLUSIVE		(2) UNISEX TOILET	
(3) UNIT COMMON		(3) TOOL & PARTS ROOM	
(4) RETENTION		(4) STORAGE ROOM	
(5) ADMINISTRATIVE SUPPORT		(5) BATTERY ROOM	
(a) GENERAL		(6) FLAMMABLE STORAGE	
(b) RCAS		(7) CONTROLLED WASTE STORAGE	
(6) LOBBY		(8) HAZARDOUS MATERIALS STORAGE	
B. ASSEMBLY AREA		(9) SERVICE BAY	
(1) ASSEMBLY AREAS		B. AREA MAINTENANCE SUPPORT	
(2) CHAIR AND TABLE STORAGE		(1) SHOP OFFICE	
C. KITCHEN - STD DESIGN		(2) MEN'S TOILET	
D. WEAPONS AREA		(3) WOMEN'S TOILET	
(1) VAULT		(4) LOCKER ROOM	
(2) ARMORER		(5) CLASSROOM/BREAK AREA	
E. EDUCATIONAL AREAS		(6) TOOL ROOM	
(1) CLASSROOMS		(7) SUPPLY ROOM	
(2) LIBRARY READING ROOM		(8) BATTERY ROOM	
(3) LIBRARY STORAGE		(9) COMMO/ELECTRONICS SHOP	
(4) LEARNING CENTER		(10) INSTRUMENT REPAIR	
(5) TRAINING AIDS STORAGE		(11) SMALL ARMS REPAIR	
(6) COMSEC TRAINING		(12) SMALL ARMS VAULT	
(7) COMSEC STORAGE		(13) FLAMMABLE STORAGE	
(8) USARF INSTRUCTOR ROOM		(14) CONTROLLED WASTE STORAGE	
(9) USARF PUBLICATIONS STORAGE		(15)	
F. STORAGE AREAS		(16)	
(1) UNIT/INDIVIDUAL		(17)	
(2) STAGING AREA		C. JOINT MAINT AREAS (OMS/AMSA)	
(3) SUPPLY OFFICE		(1) WORK BAYS	
(4) JANITORIAL STORAGE		(2) MECHANICAL/CUSTODIAL	
(5) FLAMMABLE STORAGE		(3)	
(6) CONTROLLED WASTE			
(7) FACILITY MAINTENANCE		III. UNHEATED STORAGE	
G. SPECIAL TRAINING AREAS		A. UNIT/INDIVIDUAL STORAGE	
(1) RIFLE RANGE		B. STAGING AREA	
(2) PHOTO LAB			
(3) BAND ROOM		IV. SUPPORTING FACILITIES	
(4) MEDICAL SECTION		A. PRIVATELY-OWNED VEHICLE	
(5) PHYSICAL EXAM WING		(1) PARKING - CENTER (SY)	
(6) SCIF		(2) PARKING - AMSA (SY)	
(7) SOIL TESTING LAB		B. MILITARY EQUIPMENT PARK	
(8) G.O. CONFERENCE		(1) OMS (SY)	
(9) DRAFTING ROOM		(2) AMSA (SY)	
(10) PHYSICAL READINESS		C. WASH PLATFORMS	
(11) WWNCCS		(1) OMS (EA)	
(12)		(2) AMSA (EA)	
H. SUPPORT AREA		D. COVERED STORAGE (SF)	
(1) MEN'S TOILETS & SHOWERS		E. MEP FENCING (LF)	
(2) WOMEN'S TOILETS & SHOWERS		F. MEP LIGHTING (EA)	
(3) UNISEX HANDICAP TOILET		G. ACCESS ROADS (SY)	
(4) LOCKER ROOM			
(5) VENDING ALCOVE		HVAC CODE LEGEND	
(6) BREAK AREA		H: Room Heated Only	
(7) MECHANICAL		A: Room Air-Conditioned Only	
(8) ELECTRICAL		HA: Room Heated & Air-Conditioned	
(9) TELEPHONE		U: Room is Unconditioned	

FACILITY DATA SUMMARY		DATE: 2 Dec 2004	
BLOOMSBURG, PA USAR Center		FACILITY: PA009	
		LOCATION: BLOOMSBURG,PA	
	Existing Area (nsf)	Area Subtotals (nsf)	Total (nsf)
I. TRAINING BUILDING			
A. ADMINISTRATIVE AREAS		766	766
(1) FULL TIME	246		
(2) UNIT EXCLUSIVE	0		
(3) UNIT COMMON	188		
(4) RETENTION	0		
(5) ADMINISTRATIVE SUPPORT	0		
(a) GENERAL	268		
(b) RCAS	0		
(6) LOBBY	64		
B. ASSEMBLY AREA		0	0
(1) ASSEMBLY AREAS	0		
(2) CHAIR AND TABLE STORAGE	0		
C. KITCHEN	84	84	84
D. WEAPONS AREA		283	283
(1) VAULT	283		
(2) ARMORER	0		
E. EDUCATIONAL AREAS		944	944
(1) CLASSROOMS	944		
(2) LIBRARY READING ROOM	0		
(3) LIBRARY STORAGE	0		
(4) LEARNING CENTER	0		
(5) TRAINING AIDS STORAGE	0		
(6) COMSEC TRAINING	0		
(7) COMSEC STORAGE	0		
(8) TRAINING OFFICE	0		
(9) USARF PUBLICATIONS STORAGE	0		
F. STORAGE AREAS		521	521
(1) UNIT/INDIVIDUAL EQUIPMENT	0		
(2) STAGING AREA	0		
(3) SUPPLY OFFICE	307		
(4) JANITORIAL STORAGE	19		
(5) FLAMMABLE STORAGE	0		
(6) CONTROLLED WASTE STORAGE	0		
(7) FACILITY MAINTENANCE	195		
G. SPECIAL TRAINING AREAS			
(1) RIFLE RANGE	0		
(2) PHOTO LAB	0		
(3) BAND ROOM	0		
(4) MEDICAL SECTION AREA	0		
(5) PHYSICAL EXAM WING	0		
(6) SCIF	0		
(7) SOILS TESTING LAB	0		
(8) G.O. CONFERENCE ROOM	0		
(9) DRAFTING ROOM	0		
(10) PHYSICAL READINESS AREA	0		
(11) AGCCS			

(12)			
(13)			
(14)			
(15)			
(16)			
(17)			
(18)			
	Existing Area (nsf)	Area Subtotals (nsf)	Total (nsf)
H. SUPPORT AREA		474	474
(1) MEN'S TOILETS & SHOWERS	108		
(2) WOMEN'S TOILETS & SHOWERS	68		
(3) UNISEX HANDICAP TOILET	0		
(4) LOCKER ROOM	0		
(5) VENDING ALCOVE	0		
(6) BREAK AREA	0		
(7) MECHANICAL/CUSTODIAL	298		
(8) ELECTRICAL	0		
(9) TELEPHONE	0		
Corridors	740	740	
TOTAL CENTER NET TRAINING AREA			3072
CIRCULATION ALLOWANCE (ACTUAL)			740
STRUCTURAL ALLOWANCE			525
TOTAL CENTER NET TRAINING AREA			
OUTGRANTED AREA			
TOTAL CENTER GROSS AREA			4337
II. MAINTENANCE SHOPS (AMSA, BMA, OMS)			
A. MAINTENANCE SHOP (BMA/OMS)		1158	1158
(1) SHOP/ OFFICE	120		
(2) UNISEX TOILET	0		
(3) TOOL & PARTS ROOM	0		
(4) STORAGE ROOM	0		
(5) BATTERY ROOM	0		
(6) FLAMMABLE STORAGE	38		
(7) CONTROLLED WASTE STORAGE	0		
(8) HAZARDOUS MATERIAL STRG.	0		
(9) SERVICE BAY	1000		
B. AREA MAINTENANCE SUPPORT		0	
(1) SHOP OFFICE	0		
(2) MEN'S TOILET	0		
(3) WOMEN'S TOILET	0		
(4) LOCKER ROOM	0		
(5) CLASSROOM/BREAK AREA	0		
(6) TOOL ROOM	0		
(7) SUPPLY ROOM	0		
(8) BATTERY ROOM	0		
(9) COMMO/ELECTRONICS SHOP	0		
(10) INSTRUMENT REPAIR	0		
(11) SMALL ARMS REPAIR	0		
(12) SMALL ARMS VAULT	0		
(13) FLAMMABLE STORAGE	0		

(14) CONTROLLED WASTE STORAGE	0		
(15)			
(16)			
(17)			
C. JOINT MAINT AREAS (AMSA/BMA/OMS)		0	0
(1) WORK BAYS	0		
(2) MECHANICAL/CUSTODIAL	0		
(3)			
(4)			
TOTAL SHOP NET AREA			1158
STRUCTURAL ALLOWANCE			51
TOTAL SHOP GROSS AREA			1209
OUTGRANTED AREA			0
TOTAL SHOP AVAILABLE GROSS AREA			1209
	Existing Area (nsf)	Area Subtotals (nsf)	Total (nsf)
III. EQUIPMENT STORAGE			
UNHEATED STORAGE			
(1) UNIT/INDIVIDUAL STORAGE	0		
(2) STAGING AREA	0		
TOTAL UNHEATED STORAGE NET AREA			0
STRUCTURAL ALLOWANCE			0
TOTAL UNHEATED STORAGE GROSS AREA			0
OUTGRANTED AREA			0
TOTAL UNHEATED STORAGE AVAIL. GROSS AREA			0
IV. SUPPORTING FACILITIES			
A. PRIVATELY-OWNED VEHICLE			
(1) PARKING - CENTER (SY)	1840		1840
(2) PARKING - AMSA/BMA/OMS (SY)			
B. MILITARY EQUIPMENT PARK			
(1) AMSA (SY)			
(2) BMA (SY)			
(3) OMS (SY)	512		512
C. WASH PLATFORMS			
(1) AMSA (EA)			
(2) BMA (EA)			
(3) OMS (EA)	1		1
D. COVERED STORAGE (SF)	0		0
E. MEP FENCING (LF)	398		398
F. MEP LIGHTING (EA)	6		6
G. ACCESS ROADS (SY)	495		495

REMARKS:

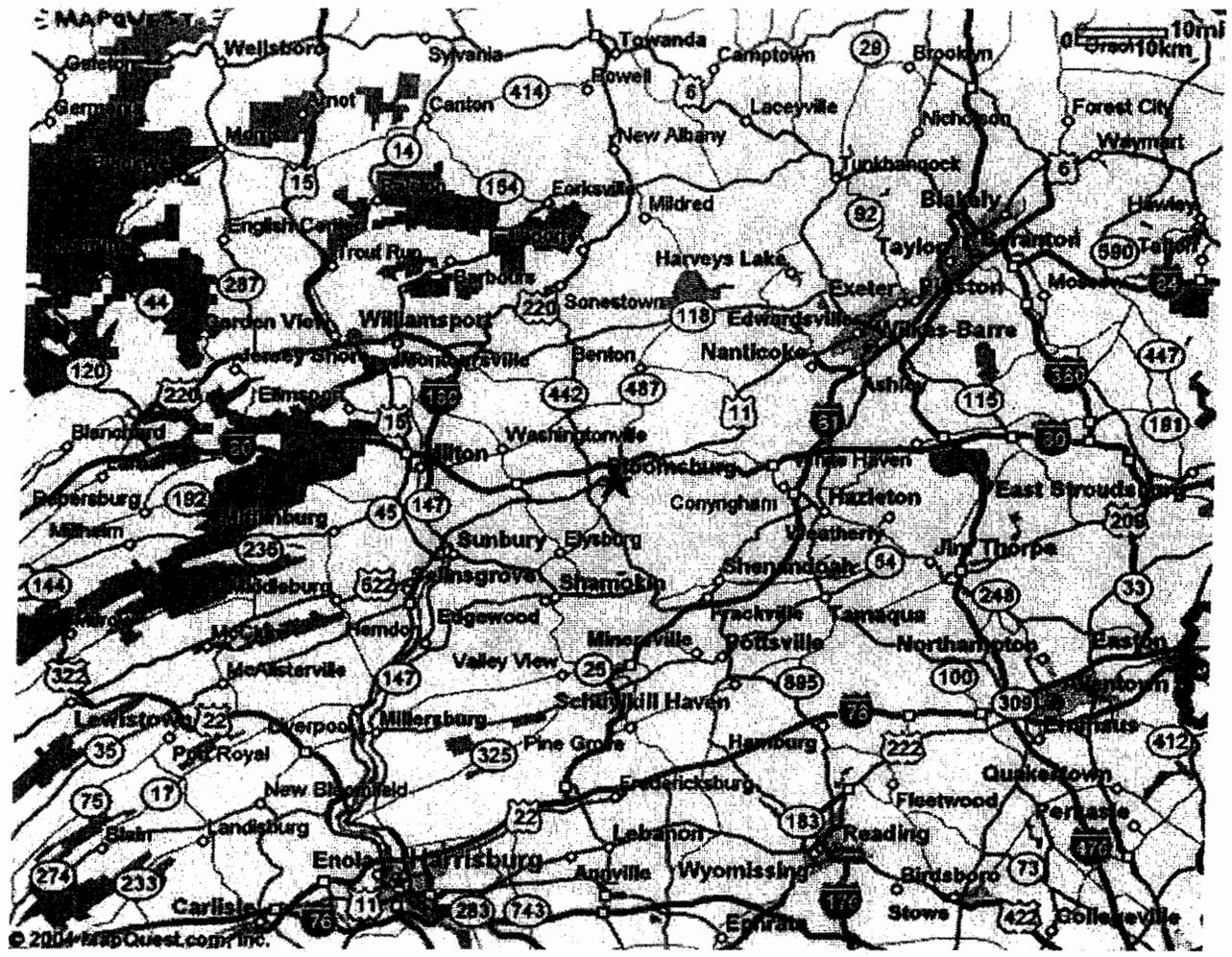
1. Above paragraph numbers correspond with paragraph numbers contained on DA Form 5034-R (Project Documentation Space Allowance Worksheet).
2. Refer to Bloomsburg USAR CTR Real Property/Square Footage Summary, PA009.
3. Areas, both net square feet (NSF) & gross square feet (GSF), were derived from laser measurements & drawings.
4. Exterior lighting fixtures for USARC and POV lot = 7.

SECTION 4: GRAPHICAL DATA

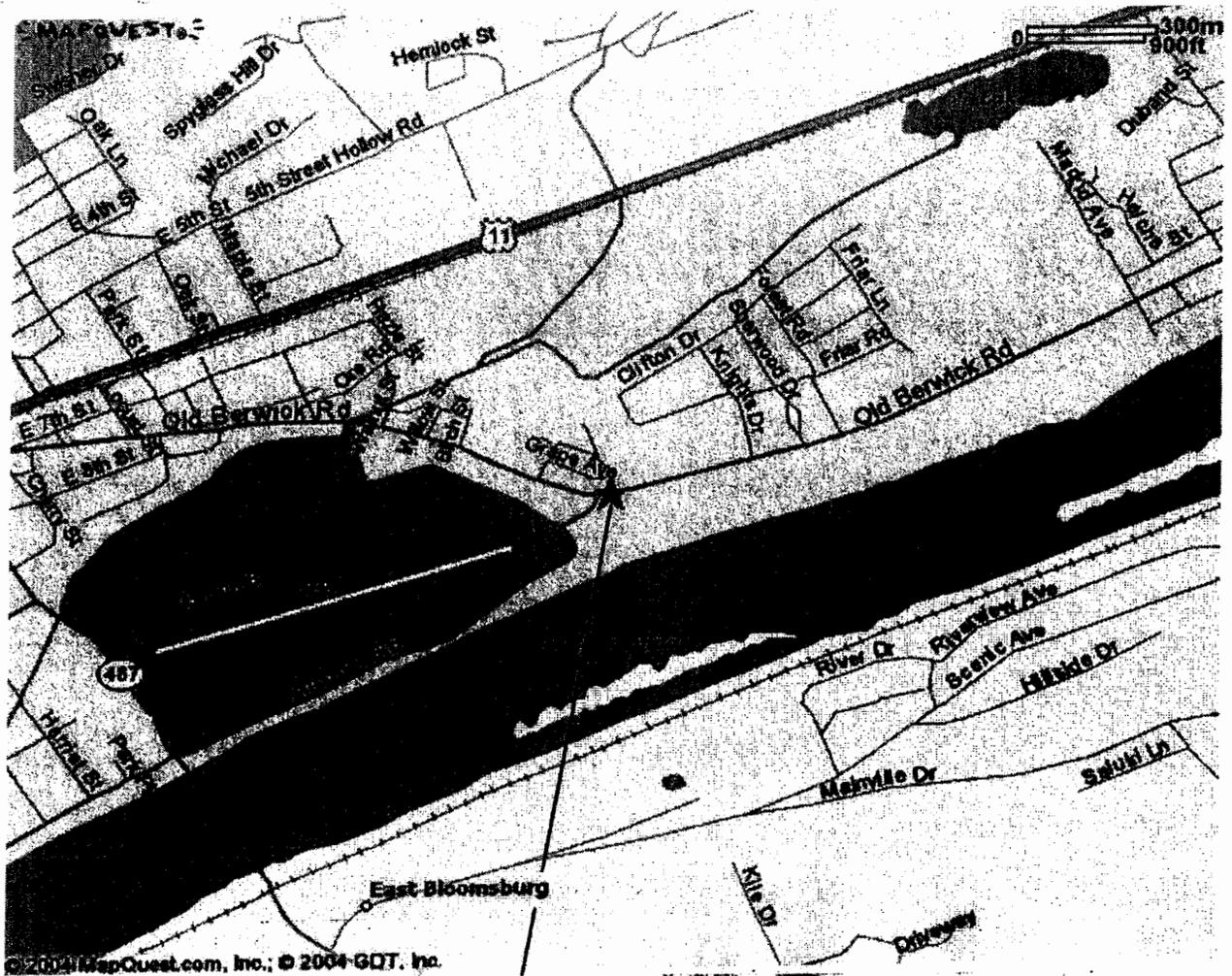
INSTALLATION NAME: Bloomsburg USAR Center (Bloomsburg, PA)
INSTALLATION NUMBER: PA009

- a. Vicinity Map
- b. Location Map
- c. Site Plan
- d. Building Floor Plans

a. VICINITY MAP

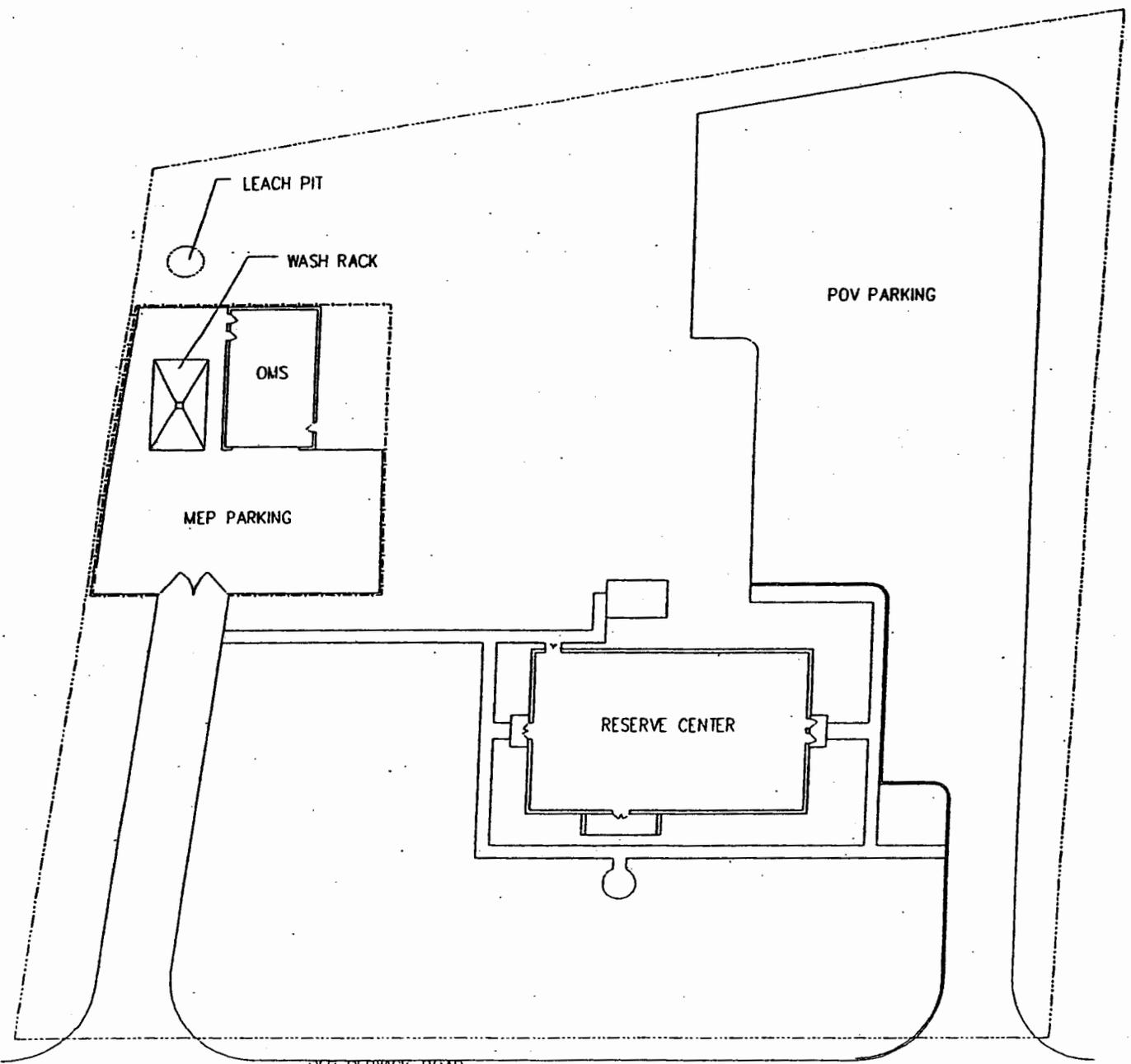


b. LOCATION MAP



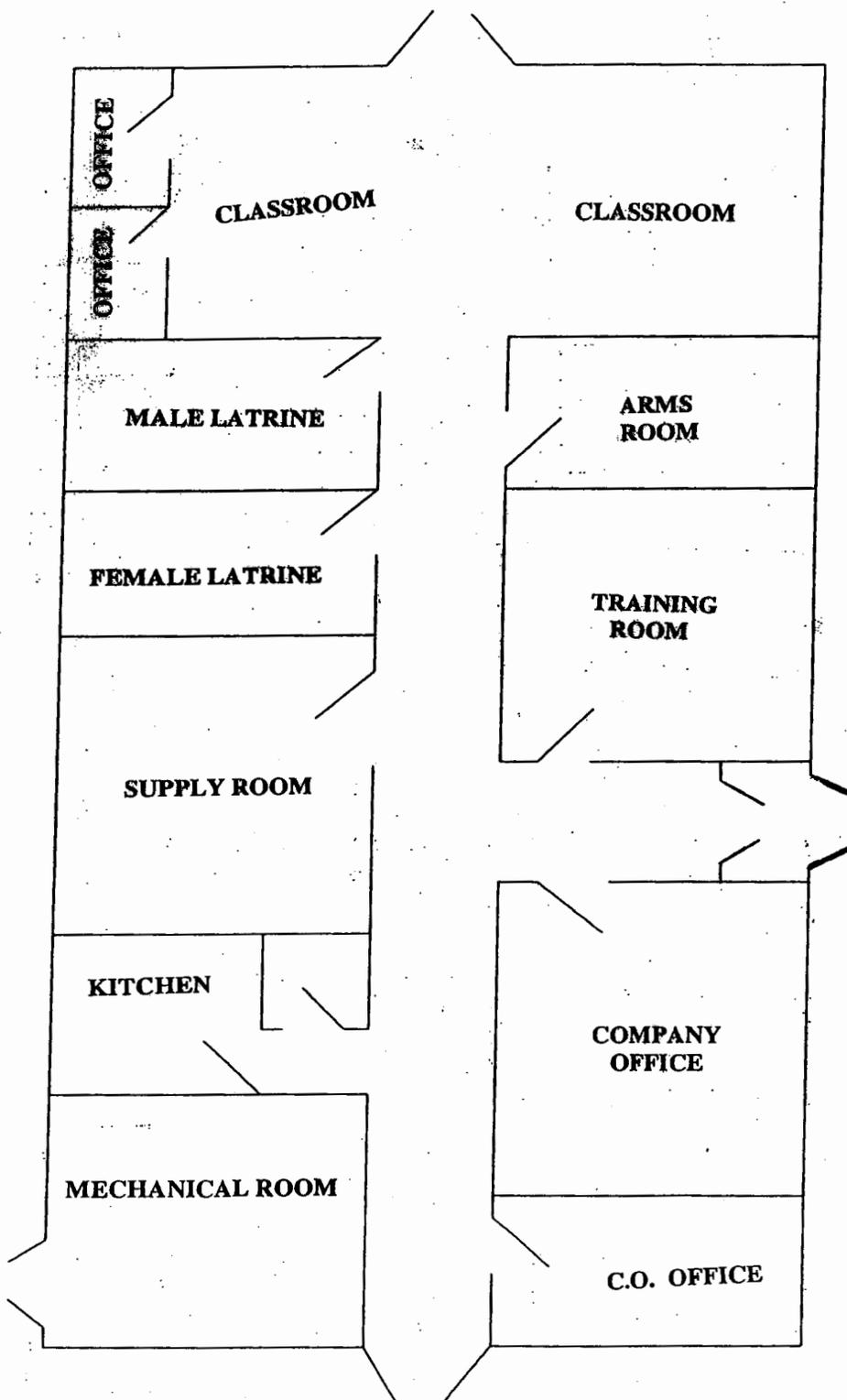
PA009 - Bloomsburg USAR Center

c. SITE PLAN - N/A

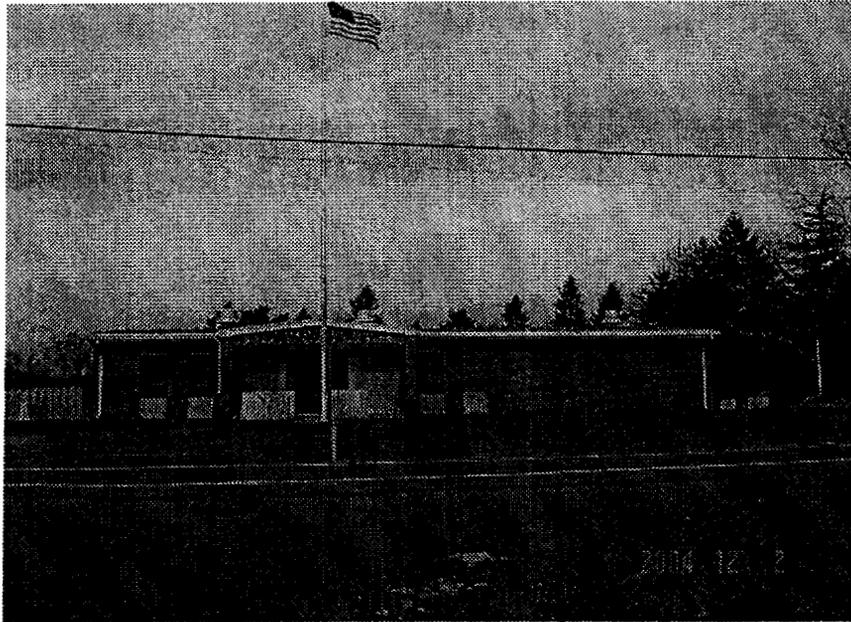


OLD BERWICK ROAD
BLOOMSBURG USAR CENTER

d. BUILDING FLOOR PLANS -



**DEPARTMENT OF THE ARMY
UNITED STATES ARMY FACILITY ENGINEER GROUP
416TH ENGINEER COMMAND
TDA AUGMENTATION
10 South 100 Frontage Road
Darien, IL 60561-1780**



ENVIRONMENTAL COMPLIANCE ASSESSMENT

For

Bloomsburg USAR Center

Bloomsburg, Pennsylvania

Facility I.D. No. PA009

Date of Visit: 2 Dec 2004

PREPARED BY:

**FACILITY ENGINEER GROUP (416th ENCOM)
FACILITY ENGINEER CENTER - NORTHEAST**

**FORT INDIANTOWN GAP
FACILITY ENGINEERING TEAM
Annville, Pennsylvania**

**FACILITY ENGINEER GROUP
USAR FACILITY
ENGINEERING AND ENVIRONMENTAL
FACILITY ASSESSMENT**

ENVIRONMENTAL COMPLIANCE ASSESSMENT

INSTALLATION NAME: BLOOMSBURG USAR CENTER
BLOOMSBURG, PA

INSTALLATION NUMBER: PA009 DATE: 2 DEC 2004

TABLE OF CONTENTS

<u>SECTION</u>	<u>DESCRIPTION</u>
1.	EXECUTIVE SUMMARY
2.	FACILITY IDENTIFICATION
3.	INSTALLATION ASSESSMENT
	A. Assessment Summary Report
	B. Facility Compliance Summary Report
	C. Detailed Compliance Report

SECTION 1: EXECUTIVE SUMMARY

INSTALLATION NAME: BLOOMSBURG USAR CENTER
INSTALLATION NUMBER: PA009 DATE: 02 DEC 2004

1. The Ft. Indiantown Gap Facility Engineer Team (Team) conducted an Engineering and Environmental Facility Assessment (E2FA) for the Bloomsburg USAR Center on 2 DEC 2004. The center consists of two buildings; the main single story building (approximately 3,827 Gross SF) and one-bay OMS (approximately 1,152 Gross SF). Both buildings are constructed of concrete block and brick veneer originally constructed in 1956 (Main Building) and 1965 (OMS). The center capacity is 25 man, however the unit greatly exceeds this capacity. There is a POV parking area and a fenced MEP. The size of the entire site is approximately 2.1 acres. The center is surrounded by residential properties on all sides. The facility is occupied by the following unit:

UNIT	Assigned Strength	Authorized Strength	Full-Time	
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 - The OMS wash rack drains to a leaching pit that is not connected to an oil/water separator or the public sewer system.
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 - Follow-up Radon testing had not been conducted after the installation of a radon mitigation system.
 - Annual chemical inventories are not being conducted.
 - Key facility environmental personnel have not attended environmental training.
 - Spill kits should be stored where hazardous materials are being stored.

- The facility does actively engage in the community recycling program. This is a positive finding.
3. Mr. Christopher Evans and 1SG Tom Thomas were extremely helpful and cooperated in assisting the team with this visit. Their dedication and professionalism greatly simplified our team's ability to accomplish the mission.



J-B CHADWICK
MAJ (P), EN, USAR
FIG FET Team Leader

SECTION 2: FACILITY IDENTIFICATION

INSTALLATION NAME: BLOOMSBURG USAR CENTER

INSTALLATION NUMBER: PA009

STREET ADDRESS: 1469 Old Berwick Road

CITY/TOWN: Bloomsburg

STATE: PA

ZIP CODE: 17815-3027

RSC/RSG: 99th RSC

FACILITY TYPE:

A. USARC: X B. AFRC: C. OMS: X D. FLIGHT:
E. DS/GS: F. MED: G. WET: H. FLIGHT:
I. ECS: J. CTF: K. OTHER:

ASSESSMENT PERFORMED BY: Ft. Indiantown Gap FET 2
FACILITY ENGINEER TEAM INCLUDED:

MAJ (P) J-B Chadwick
MAJ George Williams
CPT Richard Long
SSG Marlin Zeis
SGT Douglas Stepp

REFER TO FOR INFORMATION: MAJ (P) J-B Chadwick

Work: (732) 225-6040 Home: (215) 547-2827

PERSONNEL CONTACTED ON SITE:

NAME/GRADE	DUTY POSITION	PHONE NUMBER	E-MAIL
Mr. Christopher Evans	Unit Administrator	(570) 784-4746	
1SG Tom Thomas	Unit First Sergeant	(570) 784-4746	
Ms. John Pontier	Environmental Specialist	(301) 677-5666	

ASSESSMENT CONDUCTED ON: 02 DEC 2004

DATE OF LAST ASSESSMENT: 31 May-01 JUN 2001

Assessment Summary Report

US ARMY RESERVES

BLOOMSBURG USARC

Reference	Est Cost	Summary	Rating	Root Cause	Class	Reoccurring Issue	Regulatory Action
FTIndi2FET001	< \$500	F01: No spill kit was in evidence where hazardous materials were being stored.	Low	IP03	MP	No	No
FTIndi2FET002	\$1,001 - \$2,500	Hazardous materials containers do not have secondary containment.	Low	IP02	S&H	No	No
FTIndi2FET003	< \$500	F02: This is a positive finding. The facility participates in the community recycling program for aluminum, paper, glass and plastic.	Low	CM01	MP	No	No
FTIndi2FET004	< \$500	F03: An inventory of hazardous materials in the flammable storage building and in the OMS has not been conducted within the past year.	Low	II03	Class II	No	No
FTIndi2FET005	\$1,001 - \$2,500	F04: A written hazardous communications program was not available onsite.	Low	II04	S&H	Yes	No
FTIndi2FET006	\$1,001 - \$2,500	Personnel working with hazardous materials have not received hazard communication training in a timely manner.	Medium	CM04	S&H	No	No
FTIndi2FET007	\$1,001 - \$2,500	F05: An asbestos management plan should be prepared for the facility and maintained onsite.	Low	CM04	Class II	Yes	No
FTIndi2FET008	\$501 - \$1,000	F07: Follow-up Radon testing has not been conducted after the installation of the radon mitigation system.	Medium	II04	Class II	Yes	No
FTIndi2FET009	\$10,001 - \$50,000	F08: The wash rack at the OMS, although not being used, does not have an oil water separator and should be permanently closed.	Medium	II04	Class II	Yes	No

12/2/2004 EGAS PA009-001 - BLOOMSBURG USA
FACILITY COMPLIANCE SUMMARY REPORT
US ARMY RESERVES

FACILITY:

BLOOMSBURG USARC

SUMMARY :

Point of Contact : 99th RRC

F01: No spill kit was in evidence where hazardous materials were being stored.

DETAILS:

The spill kits were not near the areas where hazardous materials were being stored. Inadequate spill cleanup materials (Kitty Litter) available near hazardous material storage.

REGULATORY REFERENCE:

MP

PREVIOUS FINDING: No

PREVIOUS REGULATORY ACTION: No

CORRECTIVE ACTION:

EST Cost: < \$500

F01: The hazardous materials should be placed in the Hazardous materials storage room, and the Spill Cleanup kits should be placed in the hazardous materials storage room and the flammable materials storage room.

SUMMARY :

Point of Contact :

Hazardous materials containers do not have secondary containment.

DETAILS:

Two drums of anti-freeze are stored in the OMS without secondary containment. These drums should be moved to the hazardous materials storage room in the OMS, and secondary containment used.

REGULATORY REFERENCE:

29 CFR 1910.176(c)

PREVIOUS FINDING: No

PREVIOUS REGULATORY ACTION: No

CORRECTIVE ACTION:

EST Cost: \$1,001 - \$2,500

F02: Drum handling equipment should be purchased to support the maintenance activity where 55 gallon drums are required. Drums of hazardous materials should be properly stored.

SUMMARY :

Point of Contact : 99th RRC

F02: This is a positive finding. The facility participates in the community recycling program for aluminum, paper, glass and plastic.

DETAILS:

The Bloomsburg USAR Center is dedicated to the community recycling program. They recycle all paper products, aluminum, plastic, and glass.

REGULATORY REFERENCE:

(MP) [Added April 2002]

PREVIOUS FINDING: No

PREVIOUS REGULATORY ACTION: No

CORRECTIVE ACTION:

EST Cost: < \$500

F03: This is a positive finding. Continued participation in the recycling program is of benefit to the US Army and the surrounding community.

12/2/2004 ECAS PA009-001 - BLOOMSBURG USA
FACILITY COMPLIANCE SUMMARY REPORT
US ARMY RESERVES

FACILITY:

BLOOMSBURG USARC

SUMMARY :

Point of Contact : 99th RRC

F03: An inventory of hazardous materials in the flammable storage building and in the OMS has not been conducted within the past year.

DETAILS:

Several items were found in the flammable storage building that were not listed in the inventory that was dated April 2003. The inventory should be conducted on a more frequent basis, and should be updated as necessary. No hazardous material inventory was found in the OMS building.

REGULATORY REFERENCE:

EO 13148, Sec. 501; 40 CFR 370.20(a), 370.20(b), 370.20(d), 370.25, and 370.28
[Revised April 1999, Revised March 2001]

PREVIOUS FINDING: No

PREVIOUS REGULATORY ACTION: No

CORRECTIVE ACTION:

EST Cost: < \$500

F04: Hazardous material chemical inventories should be conducted on a regular basis, and the inventory posted in the storage areas.

SUMMARY :

Point of Contact : 99th RRC

F04: A written hazardous communications program was not available onsite.

DETAILS:

A Hazardous Communications program was not available onsite.

REGULATORY REFERENCE:

29 CFR 1910.1200(b)(1) and 1910.1200(e)(1) [February 1995]

PREVIOUS FINDING: Yes

PREVIOUS REGULATORY ACTION: No

CORRECTIVE ACTION:

EST Cost: \$1,001 - \$2,500

F05: Personnel onsite should receive the proper training for hazardous materials handling, and the requirements for a written Hazardous materials communications program.

12/2/2004 ECAS PA009-001 - BLOOMSBURG USA
FACILITY COMPLIANCE SUMMARY REPORT
US ARMY RESERVES

FACILITY:

BLOOMSBURG USARC

SUMMARY :

Point of Contact : 99th RRC

Personnel working with hazardous materials have not received hazard communication training in a timely manner.

DETAILS:

Full time personnel have not recieved Hazardous materials training.

REGULATORY REFERENCE:

29 CFR 1910.1200(b)(3)(iii), 1910.1200(b)(4)(iii), 1910.1200(b)(6), and 1910.1200(h)

PREVIOUS FINDING: No

PREVIOUS REGULATORY ACTION: No

CORRECTIVE ACTION:

EST Cost: \$1,001 - \$2,500

F05: Personnel onsite should receive the proper training for hazardous materials handling, and the requirements for a written Hazardous materials communications program.

SUMMARY :

Point of Contact : 99th RRC

F05: An asbestos management plan should be prepared for the facility and maintained onsite.

DETAILS:

Suspect asbestos-containing materials were observed at the facility. An asbestos survey should be conducted to determine the presence of asbestos. An asbestos management plan should be written and implemented.

REGULATORY REFERENCE:

(AR 200-1, para 8-2h and 8-3; AR 420-70, para 3-7d) [February 1997, Revised April 2000]

PREVIOUS FINDING: Yes

PREVIOUS REGULATORY ACTION: No

CORRECTIVE ACTION:

EST Cost: \$1,001 - \$2,500

F06: Conduct an asbestos survey and develop and implement an asbestos management plan.

SUMMARY :

Point of Contact : 99th RRC

F07: Follow-up Radon testing has not been conducted after the installation of the radon mitigation system.

DETAILS:

A soil depressurization radon mitigation system was installed in the main building by Ecosphere Corporation in August 1995. The unit appears to be functioning properly, however there does not appear to be any follow-up radon testing to evaluate the effectiveness of the system.

REGULATORY REFERENCE:

(AR 200-1, para 9-2b) [February 1997]

PREVIOUS FINDING: Yes

PREVIOUS REGULATORY ACTION: No

CORRECTIVE ACTION:

EST Cost: \$501 - \$1,000

F07: The 99th RRC should coordinate radon monitoring at the USAR center to evaluate the effectiveness of th radon mitigation system.

FACILITY COMPLIANCE SUMMARY REPORT

US ARMY RESERVES

FACILITY:

BLOOMSBURG USARC

SUMMARY :

Point of Contact : 99th RRC

F08: The wash rack at the OMS, although not being used, does not have an oil water separator and should be permanently closed.

DETAILS:

The wash rack was constructed in 1965 and historically drained to a leaching pit. The leaching pit is not connected to the public sewer system. An oil water separator is not associated with this system. The wash rack is not currently used, but is open to collect rain water run off. .

REGULATORY REFERENCE:

A finding under this checklist item will have the citation of the applied regulation as a basis of finding

PREVIOUS FINDING: Yes

PREVIOUS REGULATORY ACTION: No

CORRECTIVE ACTION:

EST Cost: \$10,001 - \$50,000

F08: The wash rack should be either permanently closed or reconstructed to include an industry accepted oil/water separator. Additionally, the facility Coordinator/Unit Commander should ensure that the existing wash rack is taken out of service and a written memorandum posted.

12/2/2004 ECAS PA009-001 - BLOOMSBURG USA
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: BLOOMSBURG USARC TYPE: USARC (MB) POINT OF CONTACT: 99th RRC FACILITY NUMBER: PA009-001	REFERENCE: FTIndi2FET-001 DATE ASSESSED: 12/02/2004 PROTOCOL: Hazardous Material TENANT: No OWNERSHIP:
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SUMMARY
F01: No spill kit was in evidence where hazardous materials were being stored.

DETAILS:
The spill kits were not near the areas where hazardous materials were being stored. Inadequate spill cleanup materials (Kitty Litter) available near hazardous material storage.

REQUIREMENTS:
Absorbent materials should be available for spill and/or release cleanup in areas where hazardous materials are used or stored.

REGULATORY CITATION:
MP

ECAS CODE: HM.020.01.TEAM

ROOT CAUSE: IP03 Review process to update existing plans, procedures, or systems is not established or is inadequate.

JUSTIFICATION:
Spill kits were located out in the MEP and not where the hazardous materials were stored. Management practices should be implemented to correct the storage of the material and the spill kits.

12/2/2004 ECAS PA009-001 - BLOOMSBURG USA
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: BLOOMSBURG USARC TYPE: USARC (MB) POINT OF CONTACT: 99th RRC FACILITY NUMBER: PA009-001	REFERENCE: FTIndi2FET-001 DATE ASSESSED: 12/02/2004 PROTOCOL: Hazardous Material TENANT: No OWNERSHIP:
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ENVIRONMENTAL THREAT: Possible	RATING: Low
IMPACT ON READINESS: Unlikely	
REOCCURRING ISSUE: No previous finding	
REGULATORY ACTION: No regulatory NOV is likely	

PREVIOUS FINDING: No	PREVIOUS REGULATORY ACTION: No
EXPLAIN:	

ESTIMATED COST: < \$500
CORRECTIVE ACTION: F01: The hazardous materials should be placed in the Hazardous materials storage room, and the Spill Cleanup kits should be placed in the hazardous materials storage room and the flammable materials storage room.

POLLUTION PREVENTION OPTIONS: Implement improved housekeeping practices to reduce the potential for pollutant releases from spills and emergency incidents.

Date Contacted RSC: _____ **RSC POC:** _____

RSC Guidance: _____

Assessor: _____

12/2/2004 ECAS PA009-001 - BLOOMSBURG USA
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: BLOOMSBURG USARC

TYPE: OMS (AB)

POINT OF CONTACT:

FACILITY NUMBER: PA009-001

REFERENCE: FTIndi2FET-002

DATE ASSESSED: 12/02/2004

PROTOCOL: Hazardous Material

TENANT: No

OWNERSHIP:

SUMMARY

Hazardous materials containers do not have secondary containment.

DETAILS:

Two drums of anti-freeze are stored in the OMS without secondary containment. These drums should be moved to the hazardous materials storage room in the OMS, and secondary containment used.

REQUIREMENTS:

Specific house-keeping requirements must be met in areas where hazardous materials are stored.

REGULATORY CITATION:

29 CFR 1910.176(c)

ECAS CODE: HM.001.04.TEAM

ROOT CAUSE: IP02 Environmental management plans or procedures are not properly implemented.

JUSTIFICATION:

Handling equipment for the 55 gallon drums is not available to move the drums to the hazardous materials storage room.

**12/2/2004 ECAS PA009-001 - BLOOMSBURG USA
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES**

FACILITY: BLOOMSBURG USARC
TYPE: OMS (AB)
POINT OF CONTACT:
FACILITY NUMBER: PA009-001

REFERENCE: FTIndi2FET-002
DATE ASSESSED: 12/02/2004
PROTOCOL: Hazardous Material
TENANT: No
OWNERSHIP:

ENVIRONMENTAL THREAT: Possible **RATING:** Low
IMPACT ON READINESS: Unlikely
REOCCURRING ISSUE: No previous finding
REGULATORY ACTION: No regulatory NOV is likely

PREVIOUS FINDING: No **PREVIOUS REGULATORY ACTION:** No
EXPLAIN:

ESTIMATED COST: \$1,001 - \$2,500
CORRECTIVE ACTION:
F02: Drum handling equipment should be purchased to support the maintenance activity where 55 gallon drums are required. Drums of hazardous materials should be properly stored.

POLLUTION PREVENTION OPTIONS:
F01: Turn-in all unused hazardous materials.

Date Contacted RSC: _____ **RSC POC:** _____
RSC Guidance: _____
Assessor: _____

12/2/2004 ECAS PA009-001 - BLOOMSBURG USA
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: BLOOMSBURG USARC

TYPE: USARC (MB)

POINT OF CONTACT: 99th RRC

FACILITY NUMBER: PA009-001

REFERENCE: FTIndi2FET-003

DATE ASSESSED: 12/02/2004

PROTOCOL: Other Environmental Issues

TENANT: No

OWNERSHIP:

SUMMARY

F02: This is a positive finding. The facility participates in the community recycling program for aluminum, paper, glass and plastic.

DETAILS:

The Bloomsburg USAR Center is dedicated to the community recycling program. They recycle all paper products, aluminum, plastic, and glass.

REQUIREMENTS:

Facilities should go above and beyond statutory and regulatory compliance.

REGULATORY CITATION:

(MP) [Added April 2002]

ECAS CODE: O4.002.03.TEAM

ROOT CAUSE: CM01 Environmental management is not aware of or has misinterpreted the regulations.

JUSTIFICATION:

This is a positive finding. The full time staff at the USAR Center adhere to the community recycling program.

**12/2/2004 ECAS PA009-001 - BLOOMSBURG USA
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES**

FACILITY: BLOOMSBURG USARC TYPE: USARC (MB) POINT OF CONTACT: 99th RRC FACILITY NUMBER: PA009-001	REFERENCE: FTIndi2FET-003 DATE ASSESSED: 12/02/2004 PROTOCOL: Other Environmental Issues TENANT: No OWNERSHIP:
--	---

ENVIRONMENTAL THREAT: Unlikely	RATING: Low
IMPACT ON READINESS: Unlikely	
REOCCURRING ISSUE: No previous finding	
REGULATORY ACTION: No regulatory NOV is likely	

PREVIOUS FINDING: No	PREVIOUS REGULATORY ACTION: No
EXPLAIN: This is a positive finding	

ESTIMATED COST: < \$500
CORRECTIVE ACTION: F03: This is a positive finding. Continued participation in the recycling program is of benefit to the US Army and the surrounding community.

POLLUTION PREVENTION OPTIONS: Utilize individual, dedicated (compartmentalized) recycling containers to separate common recyclables such as plastics, glass, paper, cans, and compostables from both residential and commercial waste streams eliminates or reduces the need to sort the materi

Date Contacted RSC: _____ **RSC POC:** _____
RSC Guidance: _____
Assessor: _____

12/2/2004 ECAS PA009-001 - BLOOMSBURG USA
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: BLOOMSBURG USARC

TYPE: STRG (FLMBL)

POINT OF CONTACT: 99th RRC

FACILITY NUMBER: PA009-001

REFERENCE: FTIndi2FET-004

DATE ASSESSED: 12/02/2004

PROTOCOL: Hazardous Material

TENANT: No

OWNERSHIP:

SUMMARY

F03: An inventory of hazardous materials in the flammable storage building and in the OMS has not been conducted within the past year.

DETAILS:

Several items were found in the flammable storage building that were not listed in the inventory that was dated April 2003. The inventory should be conducted on a more frequent basis, and should be updated as necessary. No hazardous material inventory was found in the OMS building.

REQUIREMENTS:

Facilities, that are required to prepare or have available a MSDS for a hazardous chemical under OSHA, are required to meet specific inventory reporting requirements for planning purposes.

REGULATORY CITATION:

EO 13148, Sec. 501; 40 CFR 370.20(a), 370.20(b), 370.20(d), 370.25, and 370.28 [Revised April 1999, Revised March 2001]

ECAS CODE: HM.030.02.TEAM

ROOT CAUSE: I103 Personnel do not consistently follow established environmental plans, policies or procedures.

JUSTIFICATION:

Personnel are unaware of the requirement. Additional training should be provided to the full time staff.

12/2/2004 ECAS PA009-001 - BLOOMSBURG USA
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: BLOOMSBURG USARC TYPE: STRG (FLMBL) POINT OF CONTACT: 99th RRC FACILITY NUMBER: PA009-001	REFERENCE: FTIndi2FET-004 DATE ASSESSED: 12/02/2004 PROTOCOL: Hazardous Material TENANT: No OWNERSHIP:
--	---

ENVIRONMENTAL THREAT: Unlikely	RATING: Low
IMPACT ON READINESS: Unlikely	
REOCCURRING ISSUE: No previous finding	
REGULATORY ACTION: No regulatory NOV is likely	

PREVIOUS FINDING: No	PREVIOUS REGULATORY ACTION: No
EXPLAIN:	

ESTIMATED COST: < \$500
CORRECTIVE ACTION: F04: Hazardous material chemical inventories should be conducted on a regular basis, and the inventory posted in the storage areas.

POLLUTION PREVENTION OPTIONS: Implement an inventory control program to ensure proper storage and management of hazardous materials.
--

Date Contacted RSC: _____ **RSC POC:** _____
RSC Guidance: _____
Assessor: _____

12/2/2004 ECAS PA009-001 - BLOOMSBURG USA
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: BLOOMSBURG USARC

TYPE: OMS (MB)

POINT OF CONTACT: 99th RRC

FACILITY NUMBER: PA009-002

REFERENCE: FTIndi2FET-005

DATE ASSESSED: 12/02/2004

PROTOCOL: Hazardous Material

TENANT: No

OWNERSHIP:

SUMMARY

F04: A written hazardous communications program was not available onsite.

DETAILS:

A Hazardous Communications program was not available onsite.

REQUIREMENTS:

A written hazard communication program is required that is designed to provide all employees with information about the hazardous chemicals to which they are exposed.

REGULATORY CITATION:

29 CFR 1910.1200(b)(1) and 1910.1200(e)(1) [February 1995]

ECAS CODE: HM.010.01.TEAM

ROOT CAUSE: I104 Review and follow-up of assessments, inspection programs, and/or identified environmental problems are not conducted or are inadequate.

JUSTIFICATION:

A written hazardous communications program must be developed and implemented for this facility. Personnel onsite do not have the training and are unaware of the requirement.

12/2/2004 ECAS PA009-001 - BLOOMSBURG USA
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: BLOOMSBURG USARC TYPE: OMS (MB) POINT OF CONTACT: 99th RRC FACILITY NUMBER: PA009-002	REFERENCE: FTIndi2FET-005 DATE ASSESSED: 12/02/2004 PROTOCOL: Hazardous Material TENANT: No OWNERSHIP:
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ENVIRONMENTAL THREAT: Unlikely	RATING: Low
IMPACT ON READINESS: Unlikely	
REOCCURRING ISSUE: Carryover finding	
REGULATORY ACTION: No regulatory NOV is likely	

PREVIOUS FINDING: Yes	PREVIOUS REGULATORY ACTION: No
EXPLAIN: This was a previous finding from the External environmental assessment conducted in 2001	

ESTIMATED COST: \$1,001 - \$2,500
CORRECTIVE ACTION: F05: Personnel onsite should receive the proper training for hazardous materials handling, and the requirements for a written Hazardous materials communications program.

POLLUTION PREVENTION OPTIONS: Develop and implement a hazardous material management program to ensure that materials are managed in a manner to minimize impacts to the environment, prevent accidental releases, and prevent the unintentional generation of hazardous waste through poor operational practices.

Date Contacted RSC: _____ **RSC POC:** _____
RSC Guidance: _____
Assessor: _____

12/2/2004 ECAS PA009-001 - BLOOMSBURG USA
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: BLOOMSBURG USARC

TYPE: USARC (MB)

POINT OF CONTACT: 99th RRC

FACILITY NUMBER: PA009-001

REFERENCE: FTIndi2FET-006

DATE ASSESSED: 12/02/2004

PROTOCOL: Hazardous Material

TENANT: No

OWNERSHIP:

SUMMARY

Personnel working with hazardous materials have not received hazard communication training in a timely manner.

DETAILS:

Full time personnel have not recieved Hazardous materials training.

REQUIREMENTS:

Personnel working with hazardous materials are required to be trained in their use and the potential hazards of such materials.

REGULATORY CITATION:

29 CFR 1910.1200(b)(3)(iii), 1910.1200(b)(4)(iii), 1910.1200(b)(6), and 1910.1200(h)

ECAS CODE: HM.010.02.TEAM

ROOT CAUSE: CM04 Management functions within the organizational structure are not afforded appropriate priority to support the environmental program ensuring mission readiness.

JUSTIFICATION: Personnel are unaware of the requirments.

12/2/2004 ECAS PA009-001 - BLOOMSBURG USA
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: BLOOMSBURG USARC TYPE: USARC (MB) POINT OF CONTACT: 99th RRC FACILITY NUMBER: PA009-001	REFERENCE: FTIndi2FET-006 DATE ASSESSED: 12/02/2004 PROTOCOL: Hazardous Material TENANT: No OWNERSHIP:
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ENVIRONMENTAL THREAT: Possible	RATING: Medium
IMPACT ON READINESS: Unlikely	
REOCCURRING ISSUE: Carryover finding	
REGULATORY ACTION: No regulatory NOV is likely	

PREVIOUS FINDING: No	PREVIOUS REGULATORY ACTION: No
EXPLAIN: This is a carry over finding since the last external environmental assessment conducted in 2001.	

ESTIMATED COST: \$1,001 - \$2,500
CORRECTIVE ACTION: F05: Personnel onsite should receive the proper training for hazardous materials handling, and the requirements for a written Hazardous materials communications program.

POLLUTION PREVENTION OPTIONS: F02: Develop an SOP and train personnel on the proper handling and storage of hazardous materials.
--

Date Contacted RSC: _____ **RSC POC:** _____
RSC Guidance: _____
Assessor: _____

12/2/2004 ECAS PA009-001 - BLOOMSBURG USA
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: BLOOMSBURG USARC

TYPE: USARC (MB)

POINT OF CONTACT: 99th RRC

FACILITY NUMBER: PA009-001

REFERENCE: FTIndi2FET-007

DATE ASSESSED: 12/02/2004

PROTOCOL: Toxic Substances

TENANT: No

OWNERSHIP:

SUMMARY

F05: An asbestos management plan should be prepared for the facility and maintained onsite.

DETAILS:

Suspect asbestos-containing materials were observed at the facility. An asbestos survey should be conducted to determine the presence of asbestos. An asbestos management plan should be written and implemented.

REQUIREMENTS:

Facilities are required to prepare, coordinate, and execute an Installation Asbestos Management Plan.

REGULATORY CITATION:

(AR 200-1, para 8-2h and 8-3; AR 420-70, para 3-7d) [February 1997, Revised April 2000]

ECAS CODE: T2.001.04.R

ROOT CAUSE: CM04

Management functions within the organizational structure are not afforded appropriate priority to support the environmental program ensuring mission readiness.

JUSTIFICATION:

The 99th RRC has not provided the USARC with the appropriate documentation for an asbestos survey or provided an asbestos management plan.

**12/2/2004 ECAS PA009-001 - BLOOMSBURG USA
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES**

FACILITY: BLOOMSBURG USARC TYPE: USARC (MB) POINT OF CONTACT: 99th RRC FACILITY NUMBER: PA009-001	REFERENCE: FTIndi2FET-007 DATE ASSESSED: 12/02/2004 PROTOCOL: Toxic Substances TENANT: No OWNERSHIP:
--	---

ENVIRONMENTAL THREAT: Unlikely	RATING: Low
IMPACT ON READINESS: Unlikely	
REOCCURRING ISSUE: Carryover finding	
REGULATORY ACTION: No regulatory NOV is likely	

PREVIOUS FINDING: Yes	PREVIOUS REGULATORY ACTION: No
EXPLAIN: This is a repeat finding from the external environmental assessment conducted in 2001.	

ESTIMATED COST: \$1,001 - \$2,500
CORRECTIVE ACTION: F06: Conduct an asbestos survey and develop and implement an asbestos management plan.

POLLUTION PREVENTION OPTIONS: F03: Perform an asbestos survey and prepare an asbestos management plan.
--

Date Contacted RSC: _____ **RSC POC:** _____
RSC Guidance: _____
Assessor: _____

12/2/2004 ECAS PA009-001 - BLOOMSBURG USA
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: BLOOMSBURG USARC TYPE: USARC (MB) POINT OF CONTACT: 99th RRC FACILITY NUMBER: PA009-001	REFERENCE: FTIndi2FET-008 DATE ASSESSED: 12/02/2004 PROTOCOL: Toxic Substances TENANT: No OWNERSHIP:
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SUMMARY
F07: Follow-up Radon testing has not been conducted after the installation of the radon mitigation system.

DETAILS:
A soil depressurization radon mitigation system was installed in the main building by Ecosphere Corporation in August 1995. The unit appears to be functioning properly, however there does not appear to be any follow-up radon testing to evaluate the effectiveness of the system.

REQUIREMENTS:
All Reserve facilities are required to maintain and update records of radon assessments conducted under the Army Radon Reduction Program.

REGULATORY CITATION:
(AR 200-1, para 9-2b) [February 1997]

ECAS CODE: T3.001.03.R

ROOT CAUSE: 1104 Review and follow-up of assessments, inspection programs, and/or identified environmental problems are not conducted or are inadequate.

JUSTIFICATION:
Personnel are unaware of the requirement.

12/2/2004 ECAS PA009-001 - BLOOMSBURG USA
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: BLOOMSBURG USARC

TYPE: USARC (MB)

POINT OF CONTACT: 99th RRC

FACILITY NUMBER: PA009-001

REFERENCE: FTIndi2FET-008

DATE ASSESSED: 12/02/2004

PROTOCOL: Toxic Substances

TENANT: No

OWNERSHIP:

ENVIRONMENTAL THREAT: Possible

RATING: Medium

IMPACT ON READINESS: Possible

REOCCURRING ISSUE: Repeat finding

REGULATORY ACTION: No regulatory NOV is likely

PREVIOUS FINDING: Yes

PREVIOUS REGULATORY ACTION: No

EXPLAIN:

This is a repeat finding from the 2001 external environmental assessment.

ESTIMATED COST: \$501 - \$1,000

CORRECTIVE ACTION:

F07: The 99th RRC should coordinate radon monitoring at the USAR center to evaluate the effectiveness of th radon mitigation system.

POLLUTION PREVENTION OPTIONS:

F04: Conduct a radon evaluation at the USAR Center.

Date Contacted RSC: _____ **RSC POC:** _____

RSC Guidance: _____

Assessor: _____

12/2/2004 ECAS PA009-001 - BLOOMSBURG USA
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: BLOOMSBURG USARC

TYPE: OMS (MB)

POINT OF CONTACT: 99th RRC

FACILITY NUMBER: PA009-002

REFERENCE: FTIndi2FET-009

DATE ASSESSED: 12/02/2004

PROTOCOL: Other Environmental Issues

TENANT: No

OWNERSHIP:

SUMMARY

F08: The wash rack at the OMS, although not being used, does not have an oil water separator and should be permanently closed.

DETAILS:

The wash rack was constructed in 1965 and historically drained to a leaching pit. The leaching pit is not connected to the public sewer system. An oil water separator is not associated with this system. The wash rack is not currently used, but is open to collect rain water run off.

REQUIREMENTS:

Facilities are required to comply with all applicable Federal regulatory requirements not contained in this check list.

REGULATORY CITATION:

A finding under this checklist item will have the citation of the applied regulation as a basis of finding

ECAS CODE: O4.002.01.TEAM

ROOT CAUSE: I104 Review and follow-up of assessments, inspection programs, and/or identified environmental problems are not conducted or are inadequate.

JUSTIFICATION:

Funding for proper closure of wash rack has not been made available.

12/2/2004 ECAS PA009-001 - BLOOMSBURG USA
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: BLOOMSBURG USARC TYPE: OMS (MB) POINT OF CONTACT: 99th RRC FACILITY NUMBER: PA009-002	REFERENCE: FTIndi2FET-009 DATE ASSESSED: 12/02/2004 PROTOCOL: Other Environmental Issues TENANT: No OWNERSHIP:
--	---

ENVIRONMENTAL THREAT: Possible	RATING: Medium
IMPACT ON READINESS: Unlikely	
REOCCURRING ISSUE: Repeat finding	
REGULATORY ACTION: No regulatory NOV is likely	

PREVIOUS FINDING: Yes	PREVIOUS REGULATORY ACTION: No
EXPLAIN: This is a previous finding during the 2001 external environmental assessment.	

ESTIMATED COST: \$10,001 - \$50,000
CORRECTIVE ACTION: F08: The wash rack should be either permanently closed or reconstructed to include an industry accepted oil/water separator. Additionally, the facility Coordinator/Unit Commander should ensure that the existing wash rack is taken out of service and a written memorandum posted.

POLLUTION PREVENTION OPTIONS: F05: Close the wash rack and seal the wash rack drain.
--

Date Contacted RSC: _____ **RSC POC:** _____
RSC Guidance: _____
Assessor: _____

**DEPARTMENT OF THE ARMY
UNITED STATES ARMY FACILITY ENGINEER GROUP
416TH ENGINEER COMMAND
TDA AUGMENTATION
10 South 100 Frontage Road
Darien, IL 60561-1780**



**REAL PROPERTY MAINTENANCE WORK
REQUIREMENTS (RPMA)**

For

Bloomsburg USAR Center

Bloomsburg, Pennsylvania

Facility I.D. No. PA009

Date of Visit: 2 Dec 2004

PREPARED BY:

**FACILITY ENGINEER GROUP (416th ENCOM)
FACILITY ENGINEER CENTER - NORTHEAST**

**FORT INDIANTOWN GAP
FACILITY ENGINEERING TEAM
Annville, Pennsylvania**

**U.S. ARMY FACILITY ENGINEER GROUP
USAR FACILITY
ENGINEERING and ENVIRONMENTAL FACILITY ASSESSMENT (E2FA)**

RPMA WORK REQUIREMENTS

INSTALLATION NAME: Bloomsburg USAR Center (Bloomsburg, PA)
INSTALLATION NUMBER: PA009

TABLE OF CONTENTS

<u>SECTION</u>	<u>DESCRIPTION</u>
1.	EXECUTIVE SUMMARY
2.	FACILITY IDENTIFICATION
3.	EXISTING CONDITIONS PHOTOGRAPHS (EXTERIOR and INTERIOR)
4.	EXISTING WORK ORDER LIST REPORT (RISER)
5.	NEW RPMA SURVEY ITEMS

SECTION 1: EXECUTIVE SUMMARY

INSTALLATION NAME: Bloomsburg USAR Center (Bloomsburg, PA)
INSTALLATION NUMBER: PA009

1. As part of the Engineering and Environmental Facility Assessment (E2FA) conducted at Bloomsburg USAR Center, the condition of the facilities was evaluated to determine the need for maintenance and repair. The Real Property Maintenance, Army (RPMA) inspection helps facility managers identify existing and incipient deficiencies in their facilities, so that they may be documented and corrected as quickly and inexpensively as possible. The objective is to provide a safe and usable work environment and to identify root causes of problems, to avoid their recurrence.

The Fort Indiantown Gap Facility Engineer Team (FET) assessed the subject USAR Center, located in Bloomsburg, Pennsylvania, 2 December 2004. The center is home to the 814th Quartermaster Company (authorized strength- 117, assigned strength- 65). The center is situated on 2.1 acres in a residential area, off Old Berwick Road, in Bloomsburg, PA.

The center consists of two buildings: the main single story building (approximately 4,337 Gross SF) and a one bay OMS building (approximately 1,206 Gross SF). Both buildings are constructed of concrete block and brick veneer. The main building was constructed in 1956 and the OMS building was constructed in 1965. The center capacity is 25 men; however the unit greatly exceeds this capacity. There is a fiberglass flammable storage shed on site (approximately 114 SF). The center also includes a parking area for Privately Owned Vehicles (POV's) and a fenced Military Equipment Park (MEP).

2. The latest riser report was not available for review.

3. The assessment identified 8 RPMA projects totaling \$ 96,094. The main center building has 4 projects, the OMS building 1 project, the POV and MEP areas 2 projects, site 1 project. All the projects with the exception of POV/MEP, and the site project are below an estimated cost of \$ 2,500.

Though the costs for the repairs in the main building are minimal, it is expedient to have them corrected as soon as possible, to preclude further damage. The damage consists of re-pointing several areas of brick veneer. The condensate line extending through the wall from the mechanical equipment room (MER) needs to be extended to minimize damage to the brick veneer. The rear of the center does not have exterior lighting, and poses a significant safety and security hazard.

The entire POV and MEP has extensive cracking and will require joint repair and overall sealing to preserve the existing bituminous asphalt. New line striping will be required after sealing.

The stone parking area at the MEP should be paved to provide a clean platform for parking and storage functions. This will also provide a safer environment for maintenance operations.

The entire center site is subject to trespass from the local residents in the area adjacent to the property due to a lack of security fencing. Fencing the entire footprint of the site will eliminate illegal trespass and provide a safety barrier for the center and neighbors.

The existing sidewalk around the center is in need of replacement, due to thermal expansion and contraction. The damaged areas should be cut out and replaced. The uneven surfaces present a trip hazard, and will only degenerate as time passes.

4. The facility is striving to implement an active maintenance program, in light of the unit being deployed. All facility personnel were extremely helpful and cooperative. The facility Management Specialist and the Unit Administrator should be commended for their management practices that have resulted in improvements to facility maintenance.

A handwritten signature in black ink, appearing to read 'G. Chadwick', written in a cursive style.

MAJ JB Chadwick
MAJ, EN, USAR
FIG FET, Team Leader

SECTION 2: FACILITY IDENTIFICATION

INSTALLATION NAME: Bloomsburg USAR Center (Bloomsburg, PA)
INSTALLATION NUMBER: PA 009

STREET ADDRESS: 1469 Old Berwick Road
CITY/TOWN: Bloomsburg
STATE: PA
ZIP CODE: 17815
RSC/RSG: 99th Oakdale, PA

FACILITY TYPE:

A. USARC: B. AFRC: C. OMS: D. FLIGHT:
E. DS/GS: F. MED: G. WET: H. FLIGHT:
I. ECS: J. CTF: K. OTHER:

ASSESSMENT PERFORMED BY: Ft. Indiantown Gap FET
FACILITY ENGINEER TEAM INCLUDED:

MAJ JB Chadwick
MAJ George Williams
CPT Richard Long
SSG Marlin Zeis

REFER TO FOR INFORMATION: MAJ JB Chadwick

Work: (732) 225-6040 Home: (215) 547-2827

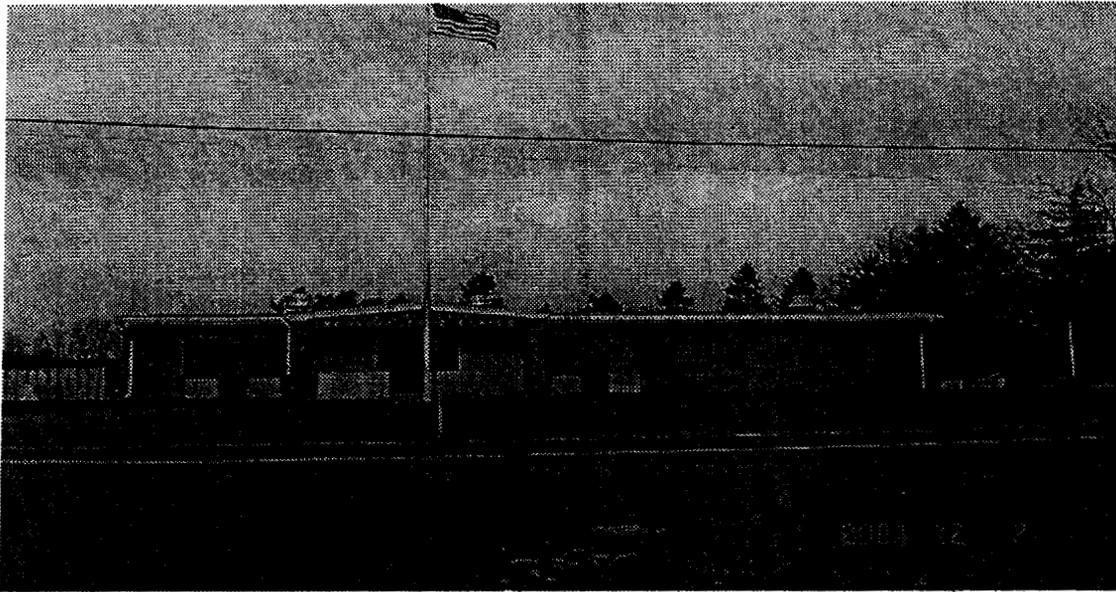
PERSONNEL CONTACTED ON SITE:

NAME/GRADE	DUTY POSITION	PHONE NUMBER	E-MAIL
Mr. Christopher Evans	Unit Administrator	(570) 784-4746	NA
1SG Tom Thomas	Unit First Sergeant	(570) 784-4746	NA

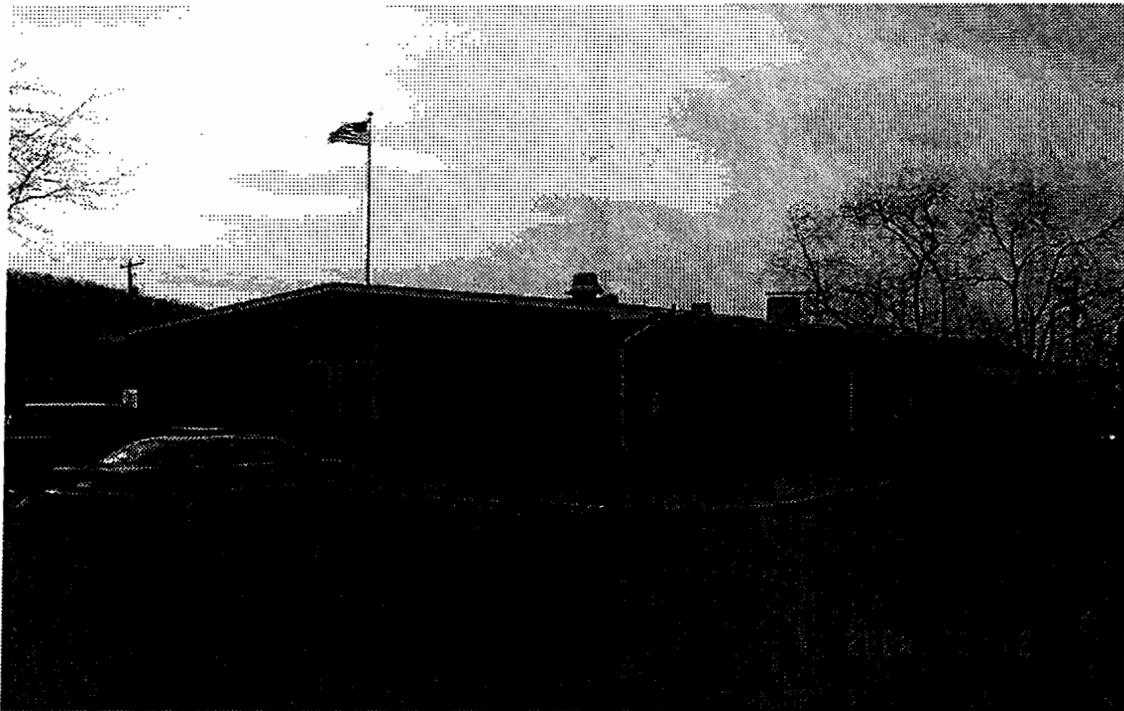
ASSESSMENT CONDUCTED FROM: 2 DEC 2004/1000 TO: 2 DEC 2004/1600

DATE LAST ASSESSMENT: 31 MAY 2001 – 01 JUN 2001

SECTION 3: EXISTING CONDITIONS PHOTOGRAPHS



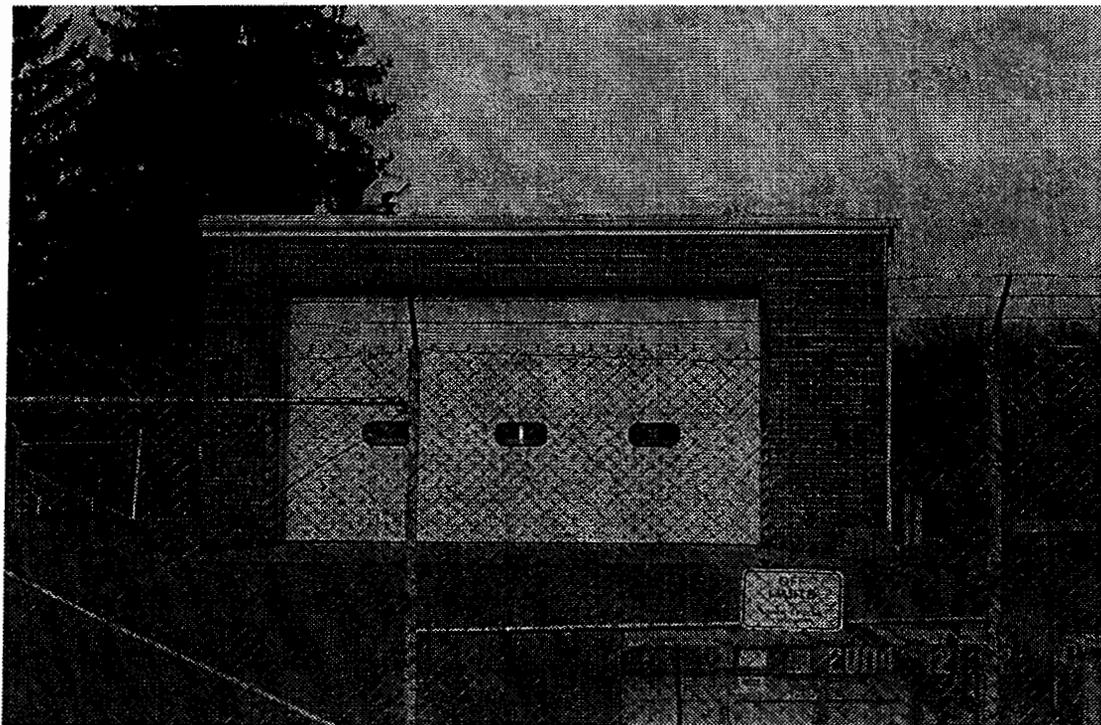
Front (South) elevation of Main Building on Old Berwick Road



North and East elevations of Main Building



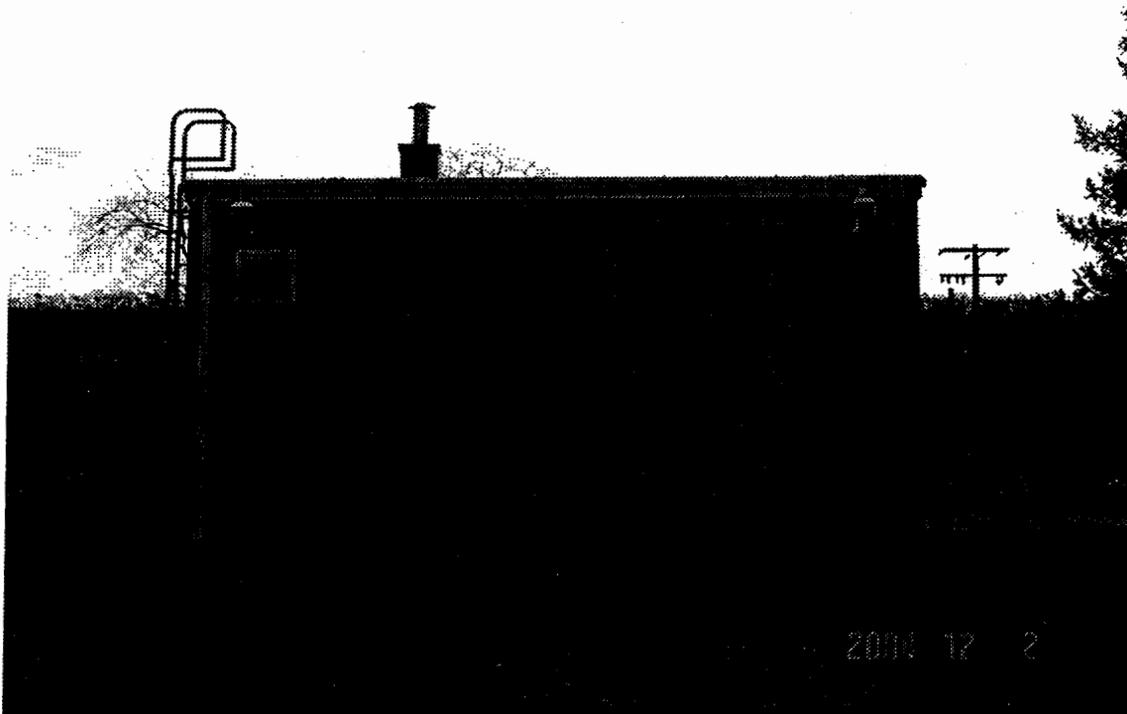
West elevation of Main Building



Front (South) elevation of OMS on Old Berwick Road



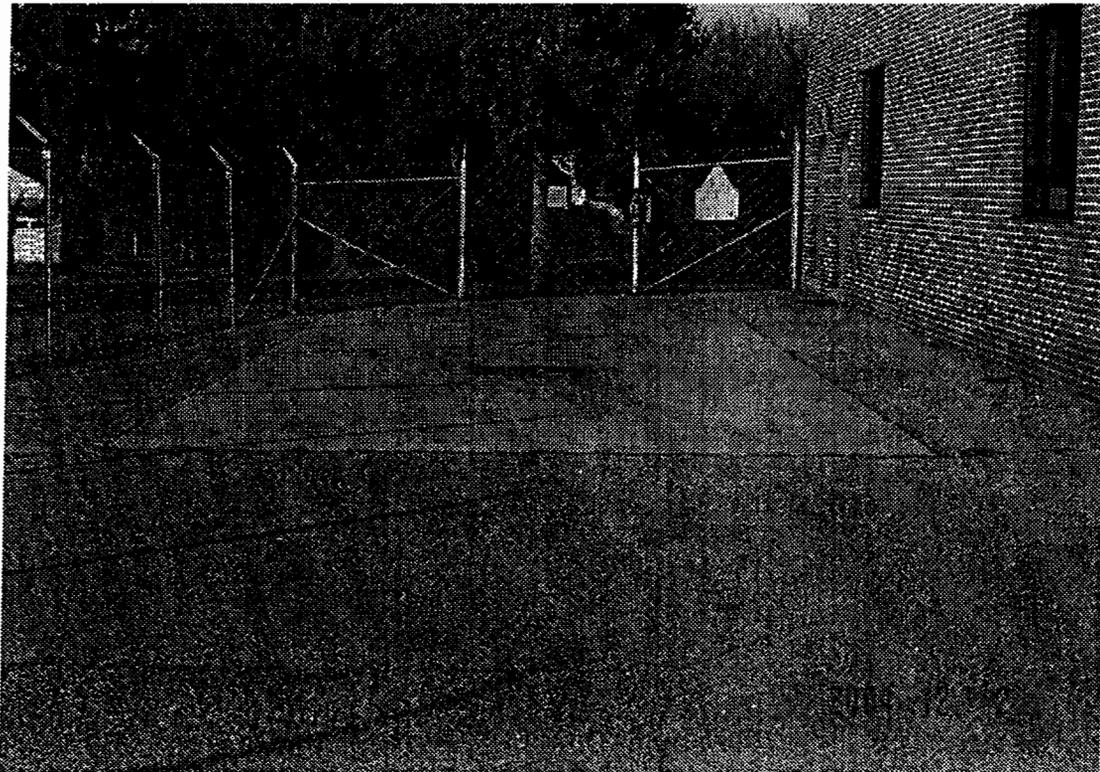
East elevation of OMS and MEP.



North elevation of OMS and Mep.



West elevation of OMS and MEP.



Wash rack on west side of OMS.

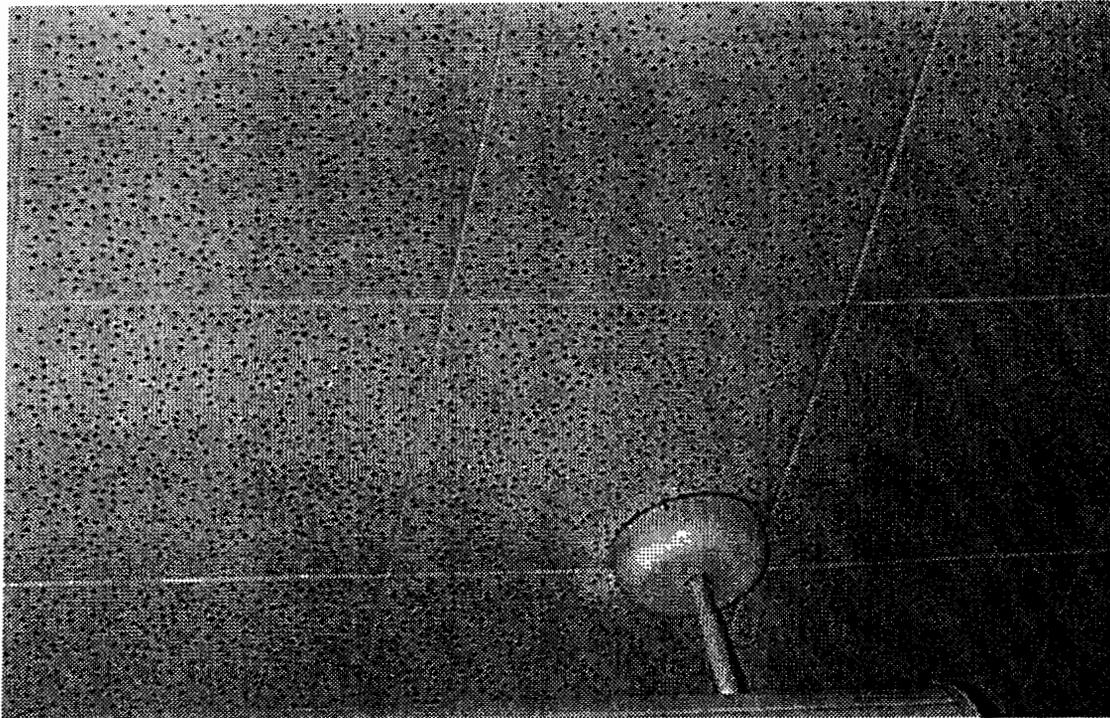


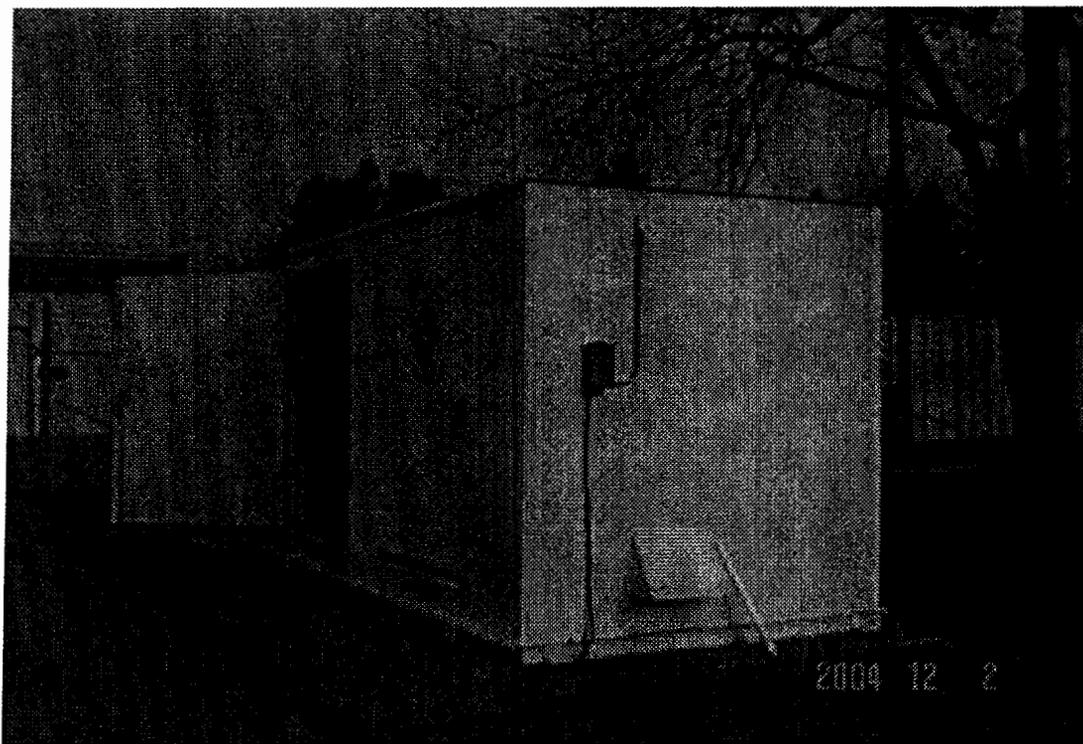
Photo 9: 12" x 12" acoustical ceiling tile - suspect ACM



POV parking lot at Main B uilding Photo 10: POV parking lot at Main B uilding.



Main Building mechanical room showing 3 natural gas forced air furnaces.
2 units on right have air conditioning capability.



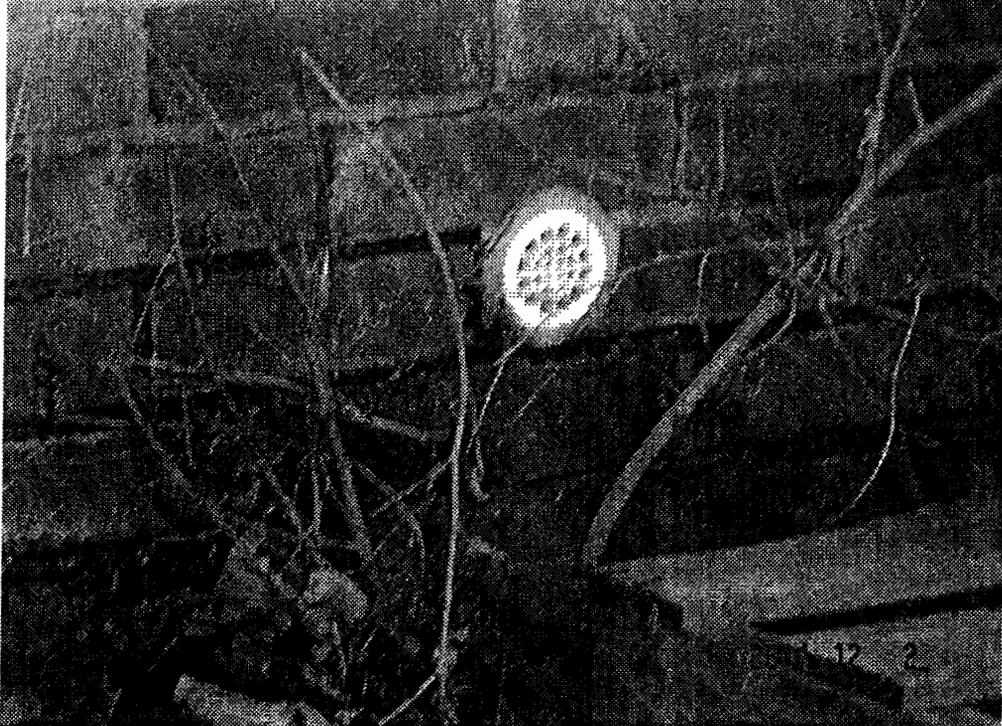
Hazardous material storage shed.



Leach pit cover



Unknown fill pipe



Water intrusion from MER drain



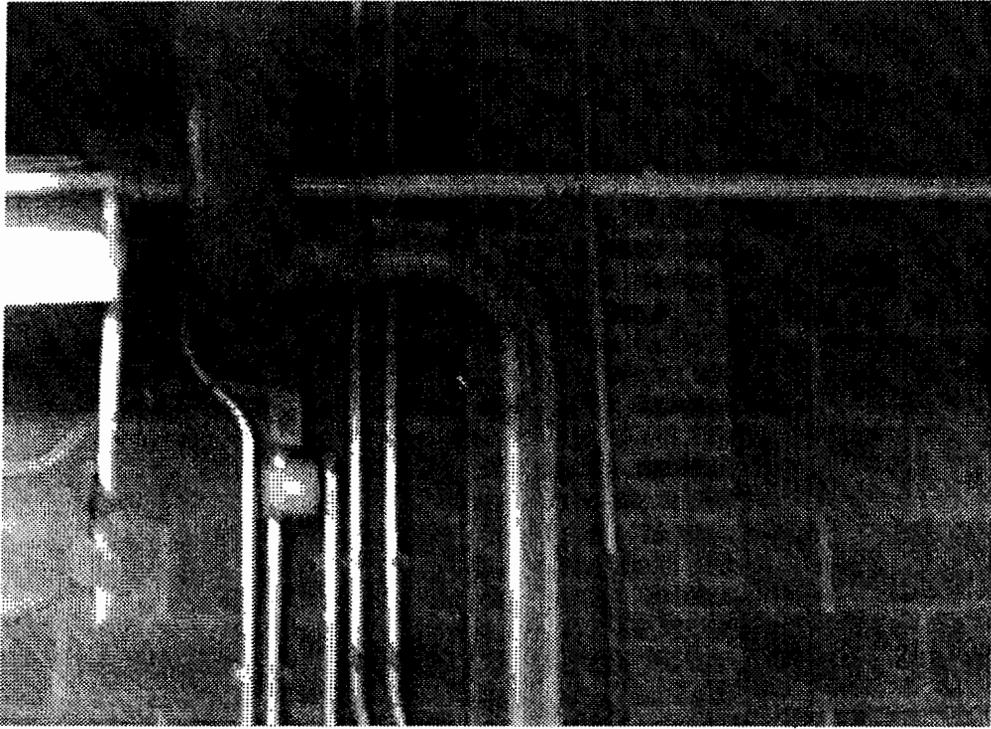
Damaged brick on USARC



USARC cracked sidewalk



OMS damaged downspout



OMS cracked wall

SECTION 4: WORK ORDER LIST REPORT (RISER)

RPMA SURVEY ITEMS

Bloomsburg USAR Center
 Bloomsburg, PA
 Facility ID # PA009

Date: 2 Dec 2004

Work Order #	Number	Repeat Finding	Category	Photo	Location	Description	Est. Cost
	1		Architectural		Exterior	Re-point masonry brick.	\$ 2,000.
	2		Plumbing		Exterior	Extend condensate line from MER	\$ 250.
	3		Electrical		Exterior	Install outdoor lighting at rear of building	\$ 1,562.
PA009-01	4		Fencing		Exterior	Install fencing around perimeter of property	\$ 29,325
PA009-02	5		Pavement		POV/OMS	Repair, Seal and Stripe Paving	\$ 12,331
PA009-03	6		Pavement		OMS	Pave OMS parking area	\$ 18,000
	7		Concrete		Exterior	Replace damaged sidewalk	\$ 6,188
PA009-04	8	X	Plumbing		OMS Exterior	Install Oil/Water Separator	\$ 26,438
						TOTAL COST	\$ 96,094

SECTION 5: NEW RPMA SURVEY ITEMS

WO #PA009-01 INSTALLATION OF SECURITY FENCING

EXISTING CONDITIONS:

Currently, there is only security fencing around the MEP area, there are no provisions around the existing USAR Center with the exception of several plastic road barriers at the three man doors.

RECOMMENDATIONS:

To secure the site properly, a perimeter fence needs to be installed around the foot print of the center's property. Two 20 foot, hinged gates will be required. One providing access to the POV area and one to the MEP area.

COST ESTIMATE NUMBER PA009-01 SECURITY FENCING

ITEM	QUANTITY	UNIT PRICE	COST
Fencing	1160 LF	\$ 12.50/LF	\$ 14,500
Barbed Wire	3480 LF	\$ 2.00/LF	\$ 6,960
Gates- 20'	2 each	1000	\$ 2,000
25% OH & Profit			<u>\$ 5,865</u>
		TOTAL	\$ 29,325

WO# PA009-02 MEP/POV PAVEMENT REHABILITATION PROJECT

EXISTING CONDITIONS:

The paving in both the MEP and POV access roads and parking areas are showing significant cracking due to thermal expansion and contraction.

The MEP area is comprised of both rigid paving and stone parking areas. The paved area reflects the same cracking as with the POV area, but not as extensive. The MEP area contains a wash rack, constructed of reinforced concrete. The concrete pad is in good condition, but drains into what appears to be a vault or leech field outside the MEP fence line.

RECOMMENDATIONS:

The cracking in all areas should be cleaned out and sealed with rubberized asphalt sealer. All oil stains/spills should be cleaned and the entire POV, MEP, and access road areas sealed.

The POV parking area should be re-striped to allow for the maximum number of vehicles.

COST ESTIMATE NUMBER PA009-02 REPAIR, SEAL, AND STRIPING

ITEM	QUANTITY	UNIT PRICE	COST
Clean and Seal Cracks	2847 SY	\$ 1.00/SY	\$ 2,847
Install Sealer	2847 SY	\$ 2.00/SY	\$ 6,960
Line Striping	662 LF	\$ 2.00/LF	\$ 1,324
25% OH & Profit			<u>\$ 2,466</u>
		TOTAL	\$ 12,331

WO# PA009-O3 MEP PAVING

EXISTING CONDITIONS:

The MEP parking area consists of both asphalt and stoned areas. The stoned area was created to allow for additional parking and storage. After any amount of precipitation, the stone area creates a house keeping problem of mud and dirt in driveways and OMS building.

RECOMMENDATIONS:

The stoned parking area should be re-graded to accommodate, a 10" base course of stone, covered with 6" of bituminous base course and 2" wearing course. All edges of new pavement that adjoins existing rigid surfaces to be sealed with asphalt joint sealer.

COST ESTIMATE NUMBER PA009-03 MEP PAVING

ITEM	QUANTITY	UNIT PRICE	COST
Excavation & Stone Subbase	45 TN	\$ 70/TN	\$ 3,150
Paving	450 SY	\$ 25/SY	\$ 11,250
25% OH & Profit			<u>\$ 3,600</u>
		TOTAL	\$ 18,000

WO # PA009-04 INSTALLATION OF OIL-WATER SEPERATOR

EXISTING CONDITIONS:

The existing wash bay is located adjacent to the OMS building and is constructed of a reinforced concrete slab. Within the slab, a drain line runs out under the existing fence to a leech field or storage pit, located in the grassy area on the center's property. There are no evident structures which conclude where the pit discharges. There is no evidence that the structure discharges into the existing drain system. There is no way to determine during this inspection, if the system is sound and or infiltrates into the surrounding areas. There are no means apparent within the existing system to collect contaminates that are washed off vehicles. Currently, due to deployment of the unit, only weather precipitation is mitigating into the system. The wash rack does not have curbing to collect wash water during use.

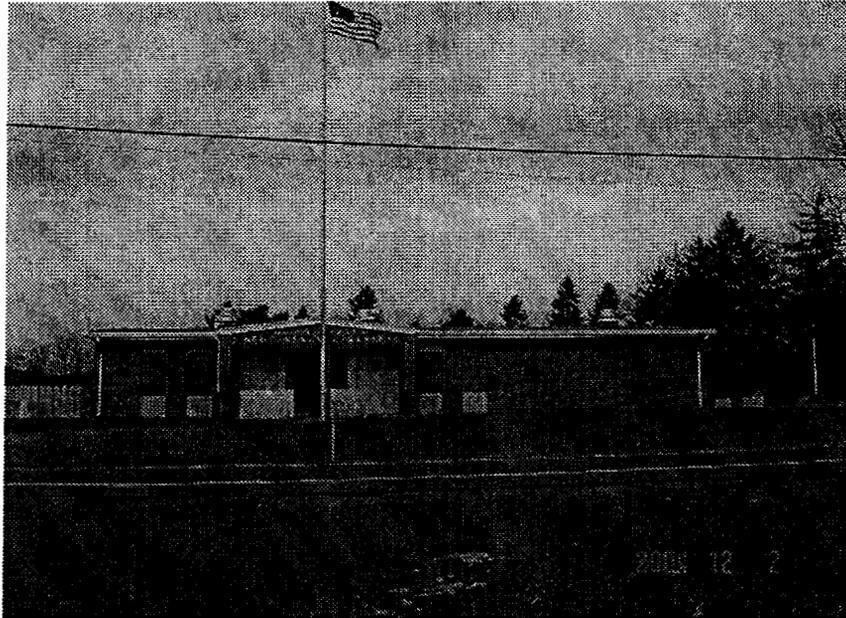
RECOMMENDATIONS:

The wash rack should be fitted with an oil-water separator, to be located just outside the existing fence. To allow access for cleaning of the oil-water seperator, a gate must be installed in the existing fence. A concrete curb should be installed around the perimeter of the wash rack, with a ramp to allow access into and out of the area.

COST ESTIMATE NUMBER PA009-04 INSTALL OIL/WATER SEPERATOR

ITEM	QUANTITY	UNIT PRICE	COST
Excavation and Fill	25 CYS	\$ 110/CY	\$ 2,750
Stone Fill	32 TN	\$ 30/TN	\$ 6,960
Seperator Unit	1 EA	\$ 12,450/EA	\$ 12,450
Piping/Terminations	1 Lump Sum	\$ 550/LS	\$ 550
Site Restoration	1 Lump Sum	\$ 1650/LS	\$ 1,650
Concrete Curb @ Wash Rack	1 Lump Sum	\$ 2,800/LS	\$ 2,800
25% OH & Profit			<u>\$ 5,288</u>
		TOTAL	\$ 26,438

DEPARTMENT OF THE ARMY
UNITED STATES ARMY FACILITY ENGINEER GROUP
416TH ENGINEER COMMAND
TDA AUGMENTATION
10 South 100 Frontage Road
Darien, IL 60561-1780



**ARMS STORAGE FACILITY STRUCTURAL
REVALIDATION**

For

Bloomsburg USAR Center
Bloomsburg, Pennsylvania
Facility I.D. No. PA009

Date of Visit: 2 Dec 2004

PREPARED BY:
FACILITY ENGINEER GROUP (416th ENCOM)
FACILITY ENGINEER CENTER - NORTHEAST

FORT INDIANTOWN GAP
FACILITY ENGINEERING TEAM
Annville, Pennsylvania

SECTION 1: FACILITY IDENTIFICATION

INSTALLATION NAME: BLOOMSBURG USAR CENTER

IDENTIFICATION NUMBER: PA009

STREET ADDRESS: 1469 Old Berwick Road
Bloomsburg, Pennsylvania 17815

RRC: 99TH, Oakdale, Pennsylvania

FACILITY TYPE:

A. USARC: X B. AFRC: C. OMS: D. FLIGHT:
E. DS/GS: F. MED: G. WET: H. FLIGHT:
I. ECS: J. CTF: K. OTHER: (*description*)

ASSESSMENT PERFORMED BY: Ft. Indiantown Gap FE TDA Team 26

FACILITY ENGINEERING TEAM INCLUDED:

MAJ J-B Chadwick
MAJ George Williams
CPT Richard Long
SSG Marlin V. Zeis

REFERENCE FOR INFORMATION: MAJ George Williams
Bldg 19-76
Fisher Road
Fort Indiantown Gap
Annville, Pennsylvania 17003
(717) 861-2384

PERSONNEL CONTACTED ON SITE:

NAME/GRADE	UNIT/POSITION	PHONE NUMBER
Mr. Christopher J. Evans	Facility Manager	(610) 872-0311

ASSESSMENT CONDUCTED FROM: 2 Dec 04/1000 Hrs TO: 4 JUN 04/1600 Hrs

DATE OF LAST ASSESSMENT: May 2001

**DEPARTMENT OF THE ARMY
416TH ENGINEER COMMAND
ENGINEER SUPPORT GROUP - EAST
FORT INDIANTOWN GAP TEAM, TEAM 26
ANNEVILLE, PA**

AFRC-ENIL-FE-E

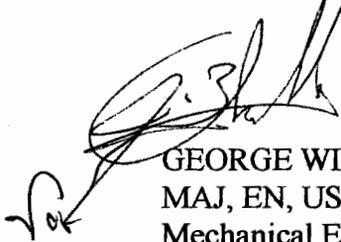
2 December 2004

MEMORANDUM FOR: Facility Manager
BLOOMSBURG USAR CENTER
1469 Old Berwick Road
Bloomsburg, Pa 17815

SUBJECT: Arms Vault Security Construction Statement

1. Enclosed for your information and use are two copies of DA Form 4604-R (Security Construction Statement) for the Arms Vault (Room 101A) which is required to be posted inside the vault to document that the facility is or is not in compliance with Army Regulation 190-11 (12 February 1998).
2. One of the copies should be kept in the unit administrator's permanent files for the USAR Center. The other copy should be mounted to either the interior wall of the arms vault or the interior vault door surface.
3. The Security construction statement will be reviewed during physical security surveys and inspections. The statement should be revalidated by engineer personnel every five years, or immediately after repairs or renovations to the Arms Vault.
4. Point of contact for this action is MAJ Williams, telephone: (717) 861-2384.

Encl


GEORGE WILLIAMS
MAJ, EN, USAR
Mechanical Engineer

CF: Director, 416th ENCOM, Engineer Support Group-East, Building 8543, Fort Meade, MD,
20755-5116, ATTN: AFRC-ENIL-FE-E,
99th RRC Provost Marshall's Office, 1605 Coraopolis Heights Road, WestPointe
Corporate Center #3, Coraopolis, PA 15108-4317

ARMS VAULT CERTIFICATION CHECK LIST
Existing Construction (Not National Guard)

FACILITY: BLOOMSBURG USAR CENTER
1469 Old Berwick Road
Bloomsburg, Pa 17815

POINT OF CONTACT: Facility Manager Mr. Christopher J. Evans
Phone Number: (570) 784-4746

<u>A. FLOORS</u>	<u>YES</u>	<u>NO</u>
1. ** 6-inch concrete slab on grade reinforced with 6-inch by 6-inch 4.0/4.0 WWF minimum or the equivalent reinforcing steel bars.	_____	_____
2. ** 6-inch minimum thickness concrete slab reinforced with # 4 bars or larger forming a grid pattern that does not exceed 96 square inches (where the floor forms the ceiling of an underlying room or area).	_____	_____
3. 6-inch minimum thickness reinforced concrete slab (either WWF or rebar, no minimum size reinforcement or minimum spacing of reinforcement specified).	<u>X*</u>	_____

*** NOTE: As Built Structural Plans indicating floor thickness were available onsite.**

<u>B. WALLS</u>	_____	_____
1. ** 8-inch thick reinforced concrete with #4 bars at 9 inches on center in each direction (vertical & horizontal).	_____	_____
2. ** 8-inch thick concrete masonry with #4 bars threaded through concrete masonry unit cavities (no spacing specified). Cells of concrete masonry unit cavities are filled with mortar or concrete. Horizontal joint reinforcement is provided at each course.	_____	_____
3. 8-inch thick reinforced solid brick wall; or	_____	_____
4. 8-inch thick reinforced concrete masonry with cells of concrete masonry unit cavities filled with concrete (no minimum size reinforcing or spacing specified); or	_____	_____
5. The walls are constructed of 12-inch thick non-reinforced solid brick masonry.	_____	_____
6. Other: Walls are 8-inch thick masonry. The interior walls have been reinforced with 6-gauge wire forming a grid of not more than 2 inches center to center, in accordance with AR 190-11, Appendix G-2.b(5).	<u>X*</u>	_____

*** NOTE: As Built structural Plans indicating wall thickness were available onsite.**

C. CEILING

Note: Items shown in **Bold** typeface are minimum mandatory standards. If the YES column entry can not be checked or one of the better standards is not met, the vault is not in compliance with AR 190-11 dated 12 February 1998, and can not be certified for the storage of Category II and III arms and ammunition.

	<u>YES</u>	<u>NO</u>
1. ** 6-inch minimum thickness concrete slab reinforced with #4 bars or larger forming a grid pattern that does not exceed 96 square inches.	_____	_____
2. 6-inch minimum thickness reinforced concrete (no minimum size or minimum spacing of reinforcement specified).	___	X
3. Concrete Pan Joists: Thinnest portion of the joist not less than 6-inches and the clear space between joists does not exceed 20-inches.	_____	_____
4. Other: The ceiling is constructed of 12-inch thick cast in place concrete	_____	_____

*** NOTE: As Built Structural Plans indicating ceiling thickness and design were available onsite.**

D. DOORS

1. GSA approved Class 5 steel door (Fed. Spec. AA-D-600B) with a built in 3 position, dial type, changeable combination lock used in lieu of the door described below (not required).	X	_____
2. Day Gate provided (not required).	_____	_____
3. Pass through window provided within Day Gate (not required).	_____	_____
4. ** Door is 1-3/4 inch thick solid core wood or laminated wood with 12-gauge metal plate securely attached to the outside face.	_____	_____
5. ** Door is 1-3/4 inch thick hollow, metal industrial type construction with minimum 14-gauge skin plate thickness, internally reinforced vertically with continuous steel stiffeners spaced 6-inches maximum on center.	_____	_____
6. Two doors provided to arms vault. One door as described in E4 or E5 above. (Double door protection is not required).	_____	_____
7. Door is 1-3/4 inch thick solid core wood with wood block cores; or	_____	_____
8. Door is 3-1/2 inch thick hollow type construction with minimum 16-gauge skin plate thickness.	_____	_____

E. DOORS AND HARDWARE

	<u>YES</u>	<u>NO</u>
1. ** Door bucks, frames and keepers are rigidly anchored and provided with antispread space filler reinforced to prevent disengagement of the lock bolt by prying or jacking the doorframe.	<u>X</u>	___
2. ** Frames and locks for interior and exterior doors are so designed and installed as to prevent sufficient removal of the frame facing or the built in locking mechanism to allow disengagement of the lock bolt from the outside when the door is closed and locked.	<u>X</u>	___
3. ** Door hinges are fixed pin security type. Exposed hinge pins will be pinned, spot welded or otherwise secured to prevent removal, and Hinge-mounting screws are not exposed to the outside of the arms vault (except for Class 5 steel vault door hinges).	___	___
4. Doorframes will be a minimum of 16-gauge steel; and	___	___
5. Door hinges shall not be exposed to the outside of the arms storage area and hinge pins shall be secured to prevent removal; and	___	___
6. Doors shall be secured with authorized padlocks.	___	___

Note: Items shown in **Bold** typeface are minimum mandatory standards. If the YES column entry can not be checked or one of the better standards is not met, the vault is not in compliance with AR 190-11 dated 12 February 1998, and can not be certified for the storage of Category II and III arms and ammunition. The exterior mounted door hinges need to be spot welded.

** Indicates new facility construction criteria which is better than existing structure criteria.

F. WINDOWS AND OTHER OPENINGS

1. No openings existing in walls or ceilings.	<u>X</u>	___
2. ** All openings greater than 96 square inches are protected by rod-and-bar grid as required in Appendix G-1.e.	___	___

G. ARMS ROOM ANCHOR RINGS

1. Anchor rings provided in arms room floor or walls to secure arms racks.	___	___
--	-----	-----

H. INTRUSION DETECTION SYSTEM (IDS)

1. Intrusion detection system provided for vaults as required in AR 190-11, to include two types of sensors, one of which must be a volumetric sensor; and	<u>X</u>	___
2. Alarms at local law enforcement/contract security alarm monitoring	___	___

station; and

 X

H. INTRUSION DETECTION SYSTEM (IDS) (continued)

- 3. **Is there a sign (constructed in accordance with Appendix F, AR 190-11) announcing the presence of the IDS prominently displayed at eye level on the exterior of each interior wall that contains an entrance to the vault; and**
- 4. **The vault is designated and posted as a restricted area in accordance with AR 190-13.**

<u>YES</u>	<u>NO</u>
<u> X </u>	<u> </u>
<u> X </u>	<u> </u>
<u> X </u>	<u> </u>

I. SECURITY LIGHTING

- 1. **Entrance door to arms vault is illuminated by lighting, or, when the vault is located within another room, the entrance door to the room is illuminated.**

J. MECHANICAL

- 1. Electrical Dehumidifier provided for vault humidity control.
- 2. 3-inch floor drain provided for dehumidifier.

K. DA FORM 4604-R SECURITY CONSTRUCTION STATEMENT

- 1. DA FORM 4604-R posted on an interior surface of the vault as required by AR190-11, Section 2.2.d.
- 2. DA FORM 4604-R reviewed and revalidated by Engineer personnel within the last 5 years as required by AR190-11, Section 2.2.d.

 X

L. SUMMARY

- 1. This facility meets Class II storage requirements for weapons.

Note: Items shown in **Bold** typeface are minimum mandatory standards. If the YES column entry can not be checked or one of the better standards is not met, the vault is not in compliance with AR 190-11 dated 12 February 1998, and can not be certified for the storage of Category II and III arms and ammunition.

M. WAIVERS, UNUSUAL REQUIREMENTS AND ADDITIONAL FEATURES

N. CERTIFICATION OF COMPLIANCE WITH CRITERIA SET FORTH IN AR 190-11

This facility does not meet the minimum structural criteria specified in Appendix G-2 of AR 109-11 dated 12 February 1998 for existing facilities located either on or off a military installation, and therefore meets the minimum structural standards for the storage of Category II and Category III arms. In addition, the storage of small quantities of Category II and Category III ammunition may be authorized by the commander to be stored in the vault with the weapons in accordance with the provisions of Section 5-8c.(1)(a) of AR 190-11.



GEORGE WILLIAMS
MAJ, EN, USAR
Mechanical Engineer, 416th ENCOM

Date: December 2, 2004

USARC Arms Vault Construction Criteria

FACILITY: _____

Date:

As-built drawings available?

Date facility constructed:

Date arms vault constructed:

Date arms vault modified:

	Type of construction	Thickness (inches)	Reinforcing Steel rebar size / Spacing (inches)		
			Horizontal		
Walls: North			Horizontal		
			Vertical		
South			Horizontal		
			Vertical		
East			Horizontal		
			Vertical		
West			Horizontal		
			Vertical		
Ceiling:					
Floor:					

Type of Door:

Wall, Floor, Ceiling Penetrations:

Description of IDS System:

Dehumidifier:

Exterior Light Above Vault Entrance Door:

Signs:

Method of Inspection: 1. R-Meter, Model #

Nondestructive testing performed by:

Date:

2. Review of As-Built Drawings

3. Site Visual Inspection

Inspected by:

SECURITY CONSTRUCTION STATEMENT

For use of this form see AR 190-11; the proponent agency is ODCSOPS

INSTRUCTIONS

This form will be prepared in three copies. The original will be maintained permanently in the files of the individual signing the form. The first copy will be maintained permanently in the using unit/organizational files. The second copy will be filed permanently in the arms/ammunition storage facility. All entries except item 7 will be typewritten.

1. THE CONSTRUCTION OF THIS FACILITY CONFORMS TO THE CRITERIA OF AR 190-11 WHICH IS IN EFFECT ON THIS DATE EXCEPT AS INDICATED HEREON

The floors are 6 inch thickness with minimum size reinforcement.

The walls are approx. 8-inch thick masonry. The interior walls have been reinforced with 6-gauge wire forming a grid of not more than 2-inches center to center. In operating the rebar locator there was no signs of rebar reinforced in the concrete slab walls

The vault door is an approved class 5 steel door (Fed. Spec. AA-600B) with a built in 3 position, dial type, changeable combination lock. The door bucks, frames and keepers are rigidly anchored and provided with space filler reinforced to prevent disengagement of the lock bolt by prying or jacking the doorframe. I do recommend that the vault door hinges be spot welded to help prevent removal.

Entrance door to arms vault is well illuminated by lighting.

The ceiling does not contain a minimum of 6-inch of reinforced concrete.

The Intrusion Detection System is currently not connected with the local law enforcement /contract security alarm monitoring station, due to the unit being deployed all weapons have been removed and maintained at its current location. Due to IDS and the ceiling findings the vault is not in compliance with AR 190-11 dated 12 February 1998, and can not be certified for the storage of category II and III arms and ammunition.

2. ROOM AND BUILDING NUMBER, STREET AND INSTALLATION ADDRESS

Room # 109
Bloomsburg USAR Center
1469 Old Berwick Road
Bloomsburg, PA 17815-3027

3. THIS APPLIES TO

- a. AN EXISTING STRUCTURE
- b. CONSTRUCTION OF NEW FACILITY
- c. MODIFICATION OF EXISTING FACILITY (Explain)

4. NAME OF OFFICIAL IN ITEM 7 BELOW
George Williams III

GRADE
MAJ, EN, USAR

6. ADDRESS OF OFFICIAL
Building 19-76
FT. Indiantown Gap
Annville, Pa 17003

5. ORGANIZATION
FIG FE Team
Facility Engineer Center-NE
U.S. Army Facility Engineer Group

7. SIGNATURE



DATE SIGNED

2 DEC 2004

Appendix E
**Regulatory Database
Search Reports**



EDR® Environmental
Data Resources Inc

The EDR Radius Map with GeoCheck®

**Bloomsburg USARC, PA
1469 OLD BERWICK RD
BLOOMSBURG, PA 17815**

Inquiry Number: 01718793.14r

July 19, 2006

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

1469 OLD BERWICK RD
BLOOMSBURG, PA 17815

COORDINATES

Latitude (North): 41.000400 - 41° 0' 1.4"
Longitude (West): 76.427000 - 76° 25' 37.2"
Universal Transverse Mercator: Zone 18
UTM X (Meters): 379982.8
UTM Y (Meters): 4539570.0
Elevation: 479 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 41076-A4 BLOOMSBURG, PA
Most Recent Revision: 2001

South Map: 40076-H4 CATAWISSA, PA
Most Recent Revision: 2001

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following government records. For more information on this property see page 6 of the attached EDR Radius Map report:

<u>Site</u>	<u>Database(s)</u>	<u>EPA ID</u>
USARC 1469 OLD BERWICK ROAD BLOOMSBURG, PA 17815	RCRA-SQG FINDS	PA4210522674

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

NPL..... National Priority List

EXECUTIVE SUMMARY

Proposed NPL	Proposed National Priority List Sites
Delisted NPL	National Priority List Deletions
NPL RECOVERY	Federal Superfund Liens
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP	CERCLIS No Further Remedial Action Planned
CORRACTS	Corrective Action Report
RCRA-TSDF	Resource Conservation and Recovery Act Information
RCRA-LQG	Resource Conservation and Recovery Act Information
ERNS	Emergency Response Notification System
HMIRS	Hazardous Materials Information Reporting System
US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
US BROWNFIELDS	A Listing of Brownfields Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
ODI	Open Dump Inventory
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
MINES	Mines Master Index File
RAATS	RCRA Administrative Action Tracking System

STATE AND LOCAL RECORDS

SHWS	Hazardous Sites Cleanup Act Site List
HSCA	HSCA Remedial Sites Listing
SWF/LF	Operating Facilities
HIST LF	Abandoned Landfill Inventory
LUST	Storage Tank Release Sites
UST	Listing of Pennsylvania Regulated Underground Storage Tanks
ARCHIVE UST	Archived Underground Storage Tank Sites
LAST	Storage Tank Release Sites
AST	Listing of Pennsylvania Regulated Aboveground Storage Tanks
ARCHIVE AST	Archived Aboveground Storage Tank Sites
MANIFEST	Manifest Information
ACT 2-DEED	Act 2-Deed Acknowledgment Sites
ENG CONTROLS	Engineering Controls Site Listing
INST CONTROL	Institutional Controls Site Listing
VCP	Voluntary Cleanup Program Sites
DRYCLEANERS	Drycleaner Facility Locations
BROWNFIELDS	Brownfields Sites
AIRS	Permit and Emissions Inventory Data

TRIBAL RECORDS

INDIAN RESERV	Indian Reservations
----------------------	---------------------

EXECUTIVE SUMMARY

EDR PROPRIETARY RECORDS

Manufactured Gas Plants... EDR Proprietary Manufactured Gas Plants

EDR Historical Auto StationsEDR Proprietary Historic Gas Stations

EDR Historical Cleaners..... EDR Proprietary Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STATE AND LOCAL RECORDS

UNREG LTANKS: Leaking storage tank cases from unregulated storage tanks.

A review of the UNREG LTANKS list, as provided by EDR, and dated 04/12/2002 has revealed that there is 1 UNREG LTANKS site within approximately 0.5 miles of the target property.

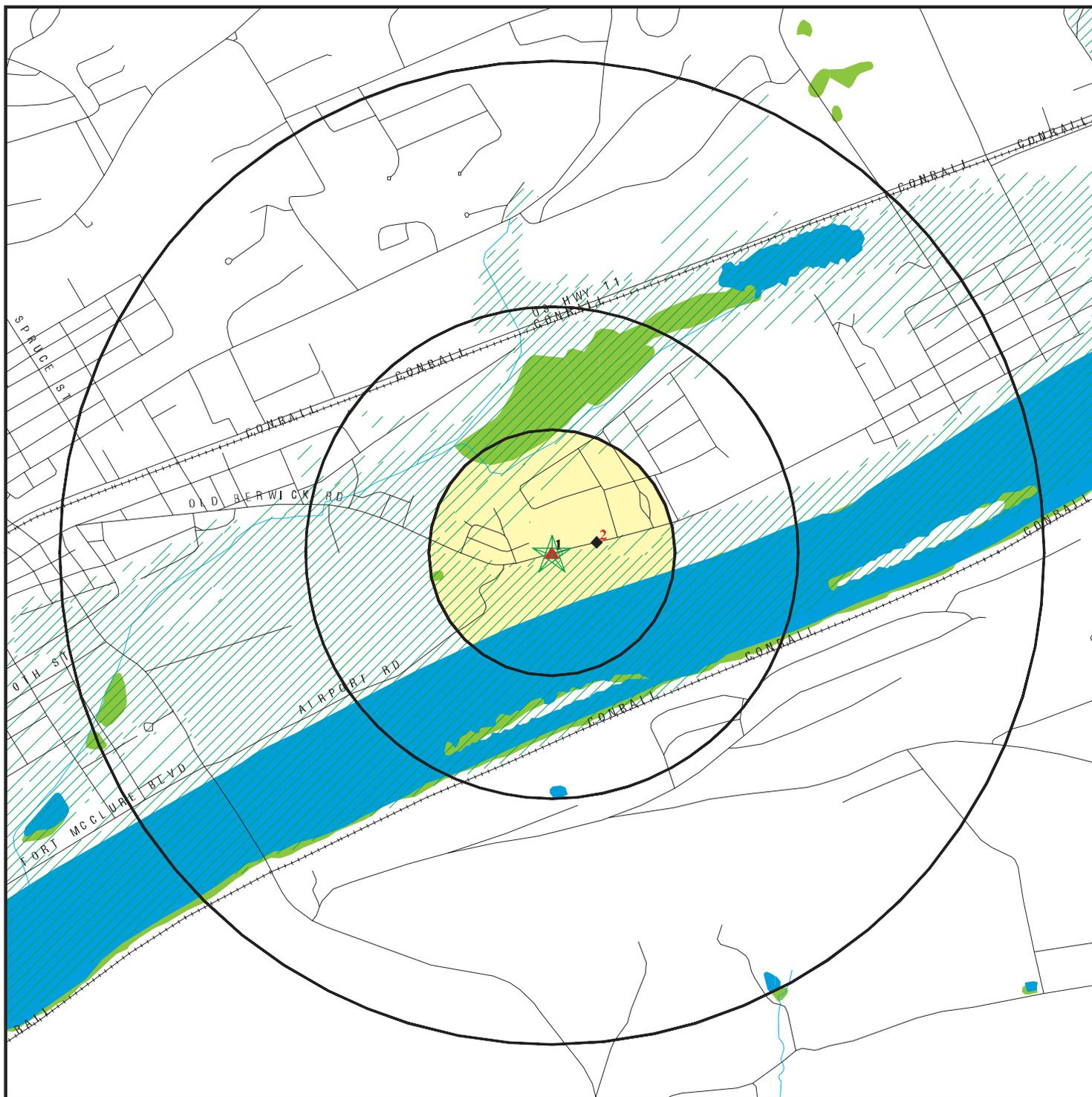
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
SANTO LANZAFAME	1743 OLD BERWICK RD	0 - 1/8 ENE	2	6

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

<u>Site Name</u>	<u>Database(s)</u>
BLOOMSBURG CUSTOM CL/NEW BERWICK H	DRYCLEANERS
ROAD CONSTRUCTION LANDFILL	CERC-NFRAP
BLOOMSBURG BORO FILL	CERC-NFRAP
BLOOMSBURG CINDER TIP	CERC-NFRAP
PENN PWR & LGT BLOOMSBURG GAS PLT	CERC-NFRAP
OLD KILE DUMP	CERC-NFRAP
S & B FOUNDRY SAND DUMP	CERC-NFRAP
REG OIL	LUST, VCP
PPL BLOOMSBURG SUBSTA	VCP
PA DOT COLUMBIA CNTY MAINT FAC	VCP, ACT 2-DEED
SATELLITE MAINT FAC 031011	UST, AST, ARCHIVE AST
NICHOLS 41	ARCHIVE UST
BLOOMSBURG MUNIC. AUTH. (EVERT FAR	HIST LF
SCOTTOWN CITGO	LUST
JAY DERR GARAGE	LUST
RENCO HOME & SPORTS CTR	LUST
HANSON BLOOMSBURG S & G	UST
PPL BLOOMSBURG SVC CTR	UST
BLOOMSBURG HMA PLT	AST
LOWES BLOOMSBURG STORE 1868	AST
DATAKOM INC	RCRA-SQG, FINDS, RAATS
REICHARTS GARAGE	RCRA-SQG, FINDS
FISHER BODY SHOP	RCRA-SQG, FINDS, MANIFEST
PA POWER & LIGHT CO-BLOOMSBURG SER	RCRA-SQG, FINDS
HRI INC BLOOMSBURG HMA PLANT	RCRA-SQG, FINDS
PP & L BLOOMSBURG SERVICE CENTER	RCRA-SQG, FINDS
INDEPENDENCE HONDA	RCRA-SQG, FINDS
INDEPENDENCE FORD INC	RCRA-SQG, FINDS
SCOTT TOWN AUTO RENTAL	RCRA-SQG, FINDS
WAL MART STORE 1794	RCRA-SQG, FINDS
SHEETZ STORE NO 213	RCRA-SQG
BLOOMSBURG, TOWN OF	RCRA-SQG, FINDS
COLUMBIA CO SERVICE STATION SUNOCO	RCRA-SQG, FINDS

OVERVIEW MAP - 01718793.14r



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites

- Indian Reservations BIA
- ▲ Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Bloomsburg USARC, PA
 ADDRESS: 1469 OLD BERWICK RD
 BLOOMSBURG PA 17815
 LAT/LONG: 41.0004 / 76.4270

CLIENT: CH2M Hill
 CONTACT: Mary Beth Jacques
 INQUIRY #: 01718793.14r
 DATE: July 19, 2006

DETAIL MAP - 01718793.14r



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites

- Indian Reservations BIA
 - Oil & Gas pipelines
 - 100-year flood zone
 - 500-year flood zone
 - National Wetland Inventory
- 0 1/16 1/8 1/4 Miles
- N

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Bloomsburg USARC, PA
 ADDRESS: 1469 OLD BERWICK RD
 BLOOMSBURG PA 17815
 LAT/LONG: 41.0004 / 76.4270

CLIENT: CH2M Hill
 CONTACT: Mary Beth Jacques
 INQUIRY #: 01718793.14r
 DATE: July 19, 2006

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>FEDERAL RECORDS</u>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
NPL RECOVERY		TP	NR	NR	NR	NR	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.500	0	0	0	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
RCRA TSD		0.500	0	0	0	NR	NR	0
RCRA Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRA Sm. Quan. Gen.	X	0.250	0	0	NR	NR	NR	0
ERNS		TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
FINDS	X	TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
<u>STATE AND LOCAL RECORDS</u>								
State Haz. Waste		1.000	0	0	0	0	NR	0
HSCA		1.000	0	0	0	0	NR	0
SWF/LF		0.500	0	0	0	NR	NR	0
HIST LF		0.500	0	0	0	NR	NR	0
LUST		0.500	0	0	0	NR	NR	0
UNREG LTANKS		0.500	1	0	0	NR	NR	1
UST		0.250	0	0	NR	NR	NR	0
ARCHIVE UST		0.250	0	0	NR	NR	NR	0
LAST		0.500	0	0	0	NR	NR	0
AST		0.250	0	0	NR	NR	NR	0
ARCHIVE AST		TP	NR	NR	NR	NR	NR	0
MANIFEST		0.250	0	0	NR	NR	NR	0
ACT 2-DEED		0.500	0	0	0	NR	NR	0
ENG CONTROLS		0.500	0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INST CONTROL		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
BROWNFIELDS		0.500	0	0	0	NR	NR	0
AIRS		TP	NR	NR	NR	NR	NR	0
<u>TRIBAL RECORDS</u>								
INDIAN RESERV		1.000	0	0	0	0	NR	0
<u>EDR PROPRIETARY RECORDS</u>								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0
EDR Historical Auto Stations		TP	NR	NR	NR	NR	NR	0
EDR Historical Cleaners		TP	NR	NR	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

1 **USARC**
Target **1469 OLD BERWICK ROAD**
Property **BLOOMSBURG, PA 17815**

RCRA-SQG **1004585848**
FINDS **PA4210522674**

Actual:
479 ft.

RCRAInfo:
 Owner: 99TH REGIONAL SUPPORT COMMAND
 (724) 693-2332
 EPA ID: PA4210522674
 Contact: KENDRA BORKA
 (215) 443-1643
 Classification: Conditionally Exempt Small Quantity Generator
 TSDF Activities: Not reported
 Violation Status: No violations found

FINDS:
 Other Pertinent Environmental Activity Identified at Site:
 RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

2 **SANTO LANZAFAME**
ENE **1743 OLD BERWICK RD**
< 1/8 **SCOTT TWP., PA**
493 ft.

UNREG LTANKS **S105920866**
N/A

Relative:
Lower

UNREG LTANKS:
 Region : North Central
 Class : Cleanup of Tanks using authorities other than Act 32
Closed : **Not reported**
 Contaminant : BTEX

Actual:
476 ft.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BLOOMSBURG	1004772647	REICHARTS GARAGE	RR #5 BOX 561 RTE 487N	17815	RCRA-SQG, FINDS
BLOOMSBURG	S105802214	SCOTTOWN CITGO	ROUTE 11 S		LUST
BLOOMSBURG	1003865867	ROAD CONSTRUCTION LANDFILL	LR 16 & TWP RTE 487	17815	CERC-NFRAP
BLOOMSBURG	U001086766	HANSON BLOOMSBURG S & G	RR 2	17815	UST
BLOOMSBURG	S105802207	JAY DERR GARAGE	RTE 339		LUST
BLOOMSBURG	1004772646	FISHER BODY SHOP	RD 9 BOX 111 RTE 44	17815	RCRA-SQG, FINDS, MANIFEST
BLOOMSBURG	1000349327	PA POWER & LIGHT CO-BLOOMSBURG SER	R D 5	17815	RCRA-SQG, FINDS
BLOOMSBURG	A100247234	BLOOMSBURG HMA PLT	10 EBNER DR	17815	AST
BLOOMSBURG	1006811097	HRI INC BLOOMSBURG HMA PLANT	10 EBNER DR	17815	RCRA-SQG, FINDS
BLOOMSBURG	1000799541	PP & L BLOOMSBURG SERVICE CENTER	LEGISLATIVE RTE (LR) 19091	17815	RCRA-SQG, FINDS
BLOOMSBURG	A100283610	LOWES BLOOMSBURG STORE 1868	50 LUNGER DR	17815	AST
BLOOMSBURG	1003865488	BLOOMSBURG BORO FILL	MAIN ST	17815	CERC-NFRAP
BLOOMSBURG	1003865877	BLOOMSBURG CINDER TIP	MARKET ST	17815	CERC-NFRAP
BLOOMSBURG	S106935764	BLOOMSBURG CUSTOM CL/NEW BERWICK H	3081B NEW BERWICK HWY	17815	DRYCLEANERS
BLOOMSBURG	1000569326	INDEPENDENCE HONDA	1721 NEW BERWICK HIGHWAY RT 11	17815	RCRA-SQG, FINDS
BLOOMSBURG	1004775836	INDEPENDENCE FORD INC	3101 NEW BERWICK HWY	17815	RCRA-SQG, FINDS
BLOOMSBURG	1004776456	SCOTT TOWN AUTO RENTAL	3121 NEW BERWICK HWY	17815	RCRA-SQG, FINDS
BLOOMSBURG	1004778416	WAL MART STORE 1794	2605 NEW BERWICK HWY	17815	RCRA-SQG, FINDS
BLOOMSBURG	1008375102	SHEETZ STORE NO 213	2511 NEW BERWICK HWY	17815	RCRA-SQG
BLOOMSBURG	U003218784	NICHOLS 41	2431 NEW BERWICK HWY	17815	ARCHIVE UST
BLOOMSBURG	S105802211	RENCO HOME & SPORTS CTR	2251 NEW BERWICK HWY		LUST
BLOOMSBURG	S106228008	REG OIL	7280 NEW BERWICK HWY		LUST, VCP
BLOOMSBURG	1000144998	DATAKOM INC	OLD BERWICK RD	17815	RCRA-SQG, FINDS, RAATS
BLOOMSBURG	S106386361	PPL BLOOMSBURG SUBSTA	PPL BLOOMSBURG 69-12 KV SUBSTA		VCP
BLOOMSBURG	S106935206	BLOOMSBURG MUNIC. AUTH. (EVERT FAR	RD#4	17815	HIST LF
BLOOMSBURG	1003865115	PENN PWR & LGT BLOOMSBURG GAS PLT	SEVENTH ST	17815	CERC-NFRAP
BLOOMSBURG	S106798783	PA DOT COLUMBIA CNTY MAINT FAC	5TH / SPRUCE STREETS		VCP, ACT 2-DEED
BLOOMSBURG	1000335101	BLOOMSBURG, TOWN OF	TOWN HALL	17815	RCRA-SQG, FINDS
BUCKHORN	U002320935	SATELLITE MAINT FAC 031011	TOWNSHIP RTE 477 N OF DANVILLE	17815	UST, AST, ARCHIVE AST
MAIN TWP	1003866532	OLD KILE DUMP	TWP RTE 19020	17815	CERC-NFRAP
MONTOUR	1000426049	COLUMBIA CO SERVICE STATION SUNOCO	RT 11	17815	RCRA-SQG, FINDS
SCOTT	U003179877	PPL BLOOMSBURG SVC CTR	RR 5	17815	UST
SOUTH CENTRE TWP	1003865661	S & B FOUNDRY SAND DUMP	US RTE 11N	17815	CERC-NFRAP

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/19/2006	Source: EPA
Date Data Arrived at EDR: 05/05/2006	Telephone: N/A
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 05/05/2006
Number of Days to Update: 17	Next Scheduled EDR Contact: 07/31/2006
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 8
Telephone: 303-312-6774

EPA Region 4
Telephone 404-562-8033

Proposed NPL: Proposed National Priority List Sites

Date of Government Version: 04/19/2006	Source: EPA
Date Data Arrived at EDR: 05/05/2006	Telephone: N/A
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 05/05/2006
Number of Days to Update: 17	Next Scheduled EDR Contact: 07/31/2006
	Data Release Frequency: Quarterly

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/19/2006	Source: EPA
Date Data Arrived at EDR: 05/05/2006	Telephone: N/A
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 05/05/2006
Number of Days to Update: 17	Next Scheduled EDR Contact: 07/31/2006
	Data Release Frequency: Quarterly

NPL RECOVERY: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 05/23/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 08/21/2006
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/01/2006	Source: EPA
Date Data Arrived at EDR: 03/21/2006	Telephone: 703-413-0223
Date Made Active in Reports: 04/13/2006	Last EDR Contact: 06/22/2006
Number of Days to Update: 23	Next Scheduled EDR Contact: 09/18/2006
	Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 02/01/2006	Source: EPA
Date Data Arrived at EDR: 03/21/2006	Telephone: 703-413-0223
Date Made Active in Reports: 04/13/2006	Last EDR Contact: 06/23/2006
Number of Days to Update: 23	Next Scheduled EDR Contact: 09/18/2006
	Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/15/2006	Source: EPA
Date Data Arrived at EDR: 03/17/2006	Telephone: 800-424-9346
Date Made Active in Reports: 04/13/2006	Last EDR Contact: 05/21/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 09/04/2006
	Data Release Frequency: Quarterly

RCRA: Resource Conservation and Recovery Act Information

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/09/2006	Source: EPA
Date Data Arrived at EDR: 04/27/2006	Telephone: 800-424-9346
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 06/28/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 08/21/2006
	Data Release Frequency: Quarterly

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2005	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/12/2006	Telephone: 202-260-2342
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 04/26/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 07/24/2006
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2005	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-366-4555
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 07/19/2006
Number of Days to Update: 46	Next Scheduled EDR Contact: 10/16/2006
	Data Release Frequency: Annually

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 07/03/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 07/03/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2004	Source: USGS
Date Data Arrived at EDR: 02/08/2005	Telephone: 703-692-8801
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 05/12/2006
Number of Days to Update: 177	Next Scheduled EDR Contact: 08/07/2006
	Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/05/2005	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 01/19/2006	Telephone: 202-528-4285
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 07/17/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

US BROWNFIELDS: A Listing of Brownfields Sites

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 04/26/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/27/2006	Telephone: 202-566-2777
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 06/12/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 09/11/2006
	Data Release Frequency: Semi-Annually

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/14/2004	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 02/15/2005	Telephone: Varies
Date Made Active in Reports: 04/25/2005	Last EDR Contact: 03/13/2006
Number of Days to Update: 69	Next Scheduled EDR Contact: 07/24/2006
	Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/13/2006	Source: EPA
Date Data Arrived at EDR: 04/28/2006	Telephone: 703-416-0223
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 07/06/2006
Number of Days to Update: 32	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 11/04/2005	Source: Department of Energy
Date Data Arrived at EDR: 11/28/2005	Telephone: 505-845-0011
Date Made Active in Reports: 01/30/2006	Last EDR Contact: 06/21/2006
Number of Days to Update: 63	Next Scheduled EDR Contact: 09/18/2006
	Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2003	Source: EPA
Date Data Arrived at EDR: 07/13/2005	Telephone: 202-566-0250
Date Made Active in Reports: 08/17/2005	Last EDR Contact: 06/22/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/18/2006
	Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002	Source: EPA
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-260-5521
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 07/17/2006
Number of Days to Update: 46	Next Scheduled EDR Contact: 10/16/2006
	Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/29/2006	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/26/2006	Telephone: 202-566-1667
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 06/19/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 09/18/2006
	Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Date of Government Version: 03/31/2006	Source: EPA
Date Data Arrived at EDR: 04/26/2006	Telephone: 202-566-1667
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 06/19/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 09/18/2006
	Data Release Frequency: Quarterly

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 05/11/2006	Telephone: 202-564-4203
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 07/17/2006
Number of Days to Update: 11	Next Scheduled EDR Contact: 10/16/2006
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 02/13/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/21/2006	Telephone: 202-564-5088
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 07/17/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/16/2006
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 12/27/2005	Source: EPA
Date Data Arrived at EDR: 02/08/2006	Telephone: 202-566-0500
Date Made Active in Reports: 02/27/2006	Last EDR Contact: 06/28/2006
Number of Days to Update: 19	Next Scheduled EDR Contact: 08/07/2006
	Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/12/2006	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 04/26/2006	Telephone: 301-415-7169
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 07/03/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Quarterly

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/09/2006	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 03/29/2006	Telephone: 303-231-5959
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 06/28/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 09/25/2006
	Data Release Frequency: Semi-Annually

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/27/2006	Source: EPA
Date Data Arrived at EDR: 05/02/2006	Telephone: N/A
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 04/03/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 07/03/2006
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/05/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/04/2006
	Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2003
Date Data Arrived at EDR: 06/17/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 48

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/30/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Biennially

STATE AND LOCAL RECORDS

SHWS: Hazardous Sites Cleanup Act Site List

The Hazardous Sites Cleanup Act Site List includes sites listed on PA Priority List, sites delisted from PA Priority List, Interim Response Completed sites, and Sites Being Studied or Response Being Planned.

Date of Government Version: 02/01/2006
Date Data Arrived at EDR: 02/17/2006
Date Made Active in Reports: 03/15/2006
Number of Days to Update: 26

Source: Department Environmental Protection
Telephone: 717-783-7816
Last EDR Contact: 06/16/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Semi-Annually

HSCA: HSCA Remedial Sites Listing

A list of remedial sites on the PA Priority List. This is the PA state equivalent of the federal NPL superfund list.

Date of Government Version: 05/05/2004
Date Data Arrived at EDR: 05/26/2004
Date Made Active in Reports: 06/24/2004
Number of Days to Update: 29

Source: Department of Environmental Protection
Telephone: 717-783-7816
Last EDR Contact: 02/17/2006
Next Scheduled EDR Contact: 05/15/2006
Data Release Frequency: Varies

SWF/LF: Operating Facilities

Date of Government Version: 03/15/2006
Date Data Arrived at EDR: 03/31/2006
Date Made Active in Reports: 05/04/2006
Number of Days to Update: 34

Source: Department of Environmental Protection
Telephone: 717-787-7564
Last EDR Contact: 06/22/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Semi-Annually

HIST LF: Abandoned Landfill Inventory

The report provides facility information recorded in the Pennsylvania Department of Environmental Protection ALI database. Some of this information has been abstracted from old records and may not accurately reflect the current conditions and status at these facilities

Date of Government Version: 01/04/2005
Date Data Arrived at EDR: 01/04/2005
Date Made Active in Reports: 02/04/2005
Number of Days to Update: 31

Source: Department of Environmental Protection
Telephone: 717-787-7564
Last EDR Contact: 06/19/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Varies

HIST LF INACTIVE: Inactive Facilities List

A listing of inactive non-hazardous facilities (10000 & 300000 series). This listing is no longer updated or maintained by the Department of Environmental Protection. At the time the listing was available, the DEP's name was the Department of Environmental Resources.

Date of Government Version: 12/20/1994
Date Data Arrived at EDR: 07/12/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 30

Source: Department of Environmental Protection
Telephone: 717-787-7381
Last EDR Contact: 06/21/2005
Next Scheduled EDR Contact: 12/19/2005
Data Release Frequency: No Update Planned

HIST LF INVENTORY: Facility Inventory

A listing of solid waste facilities. This listing is no longer updated or maintained by the Department of Environmental Protection. At the time the listing was available, the DEP's name was the Department of Environmental Resources.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/02/1999
Date Data Arrived at EDR: 07/12/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 30

Source: Department of Environmental Protection
Telephone: 717-787-7381
Last EDR Contact: 09/19/2005
Next Scheduled EDR Contact: 12/19/2005
Data Release Frequency: No Update Planned

LUST: Storage Tank Release Sites

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 03/09/2006
Date Data Arrived at EDR: 04/11/2006
Date Made Active in Reports: 05/04/2006
Number of Days to Update: 23

Source: Department of Environmental Protection
Telephone: 717-783-7509
Last EDR Contact: 07/12/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Semi-Annually

UNREG LTANKS: Unregulated Tank Cases

Leaking storage tank cases from unregulated storage tanks.

Date of Government Version: 04/12/2002
Date Data Arrived at EDR: 08/14/2003
Date Made Active in Reports: 08/29/2003
Number of Days to Update: 15

Source: Department of Environmental Protection
Telephone: 717-783-7509
Last EDR Contact: 08/14/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST: Listing of Pennsylvania Regulated Underground Storage Tanks

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 06/07/2006
Date Made Active in Reports: 06/30/2006
Number of Days to Update: 23

Source: Department of Environmental Protection
Telephone: 717-772-5599
Last EDR Contact: 07/11/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Varies

ARCHIVE UST: Archived Underground Storage Tank Sites

The list includes tanks storing highly hazardous substances that were removed from the DEP's Storage Tank Information database because of the Department's policy on sensitive information. The list also may include tanks that are removed or permanently closed.

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 06/07/2006
Date Made Active in Reports: 07/12/2006
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-772-5599
Last EDR Contact: 07/11/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Varies

LAST: Storage Tank Release Sites

Leaking Aboveground Storage Tank Incident Reports.

Date of Government Version: 03/09/2006
Date Data Arrived at EDR: 04/11/2006
Date Made Active in Reports: 05/04/2006
Number of Days to Update: 23

Source: Department of Environmental Protection
Telephone: 717-783-7509
Last EDR Contact: 07/12/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Semi-Annually

AST: Listing of Pennsylvania Regulated Aboveground Storage Tanks

Registered Aboveground Storage Tanks.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 06/07/2006
Date Made Active in Reports: 06/30/2006
Number of Days to Update: 23

Source: Department of Environmental Protection
Telephone: 717-772-5599
Last EDR Contact: 07/11/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Varies

ARCHIVE AST: Archived Aboveground Storage Tank Sites

The list includes aboveground tanks with a capacity greater than 21,000 gallons that were removed from the DEP's Storage Tank Information database because of the Department's policy on sensitive information. The list also may include tanks that are removed or permanently closed.

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 06/07/2006
Date Made Active in Reports: 07/12/2006
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-772-5599
Last EDR Contact: 07/11/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Varies

MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 05/04/2006
Date Made Active in Reports: 06/06/2006
Number of Days to Update: 33

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/12/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Annually

ACT 2-DEED: Act 2-Deed Acknowledgment Sites

This listing pertains to sites where the Department has approved a cleanup requiring a deed acknowledgment under Act 2. This list includes sites remediated to a non-residential Statewide health standard (Section 303(g)); all sites demonstrating attainment of a Site-specific standard (Section 304(m)); and sites being remediated as a special industrial area (Section 305(g)). Persons who remediated a site to a standard that requires a deed acknowledgment shall comply with the requirements of the Solid Waste Management Act or the Hazardous Sites Cleanup Act, as referenced in Act 2. These statutes require a property description section in the deed concerning the hazardous substance disposal on the site. The location of disposed hazardous substances and a description of the type of hazardous substances disposed on the site shall be included in the deed acknowledgment. A deed acknowledgment is required at the time of conveyance of the property.

Date of Government Version: 06/20/2006
Date Data Arrived at EDR: 06/21/2006
Date Made Active in Reports: 07/12/2006
Number of Days to Update: 21

Source: Department of Environmental Protection
Telephone: 717-783-9470
Last EDR Contact: 06/19/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Varies

ENG CONTROLS: Engineering Controls Site Listing

Under the Land Recycling Act (Act 2) persons who perform a site cleanup using the site-specific standard or the special industrial area standard may use engineering or institutional controls as part of the response action. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/08/2006
Date Data Arrived at EDR: 05/16/2006
Date Made Active in Reports: 06/06/2006
Number of Days to Update: 21

Source: Department of Environmental Protection
Telephone: 717-783-9470
Last EDR Contact: 05/16/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Varies

INST CONTROL: Institutional Controls Site Listing

Under the Land Recycling Act (Act 2) persons who perform a site cleanup using the site-specific standard or the special industrial area standard may use engineering or institutional controls as part of the response action. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/08/2006
Date Data Arrived at EDR: 05/16/2006
Date Made Active in Reports: 06/06/2006
Number of Days to Update: 21

Source: Department of Environmental Protection
Telephone: 717-783-9470
Last EDR Contact: 05/16/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Sites

Sites involved in the Voluntary Cleanup Program

Date of Government Version: 06/20/2006
Date Data Arrived at EDR: 06/21/2006
Date Made Active in Reports: 07/12/2006
Number of Days to Update: 21

Source: Department of Environmental Protection
Telephone: 717-783-2388
Last EDR Contact: 06/19/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Semi-Annually

DRYCLEANERS: Drycleaner Facility Locations

A listing of drycleaner facility locations.

Date of Government Version: 05/01/2006
Date Data Arrived at EDR: 05/01/2006
Date Made Active in Reports: 06/06/2006
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: 717-787-9702
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: Varies

BROWNFIELDS: Brownfields Sites

Date of Government Version: 06/20/2006
Date Data Arrived at EDR: 06/21/2006
Date Made Active in Reports: 07/12/2006
Number of Days to Update: 21

Source: Department of Environmental Protection
Telephone: 717-783-7509
Last EDR Contact: 06/19/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Varies

AIRS: Permit and Emissions Inventory Data

Permit and emissions inventory data.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 05/03/2006
Date Made Active in Reports: 06/06/2006
Number of Days to Update: 34

Source: Department of Environmental Protection
Telephone: 717-787-9702
Last EDR Contact: 04/07/2006
Next Scheduled EDR Contact: 07/24/2006
Data Release Frequency: Annually

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/08/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 177

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 05/12/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Semi-Annually

EDR PROPRIETARY RECORDS

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/17/2006
Date Made Active in Reports: 04/07/2006
Number of Days to Update: 49

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 06/14/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 04/24/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 8

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/05/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 05/02/2006
Date Data Arrived at EDR: 05/31/2006
Date Made Active in Reports: 06/27/2006
Number of Days to Update: 27

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/31/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 09/30/2005
Date Data Arrived at EDR: 05/09/2006
Date Made Active in Reports: 05/24/2006
Number of Days to Update: 15

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 06/19/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 05/17/2006
Number of Days to Update: 61

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 05/15/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 46

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 07/11/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation
Telephone: (800) 823-6277

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Facility List

Source: Department of Public Welfare

Telephone: 717-783-3856

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

BLOOMSBURG USARC, PA
1469 OLD BERWICK RD
BLOOMSBURG, PA 17815

TARGET PROPERTY COORDINATES

Latitude (North):	41.00040 - 41° 0' 1.4"
Longitude (West):	76.427 - 76° 25' 37.2"
Universal Transverse Mercator:	Zone 18
UTM X (Meters):	379982.8
UTM Y (Meters):	4539570.0
Elevation:	479 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	41076-A4 BLOOMSBURG, PA
Most Recent Revision:	2001
South Map:	40076-H4 CATAWISSA, PA
Most Recent Revision:	2001

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

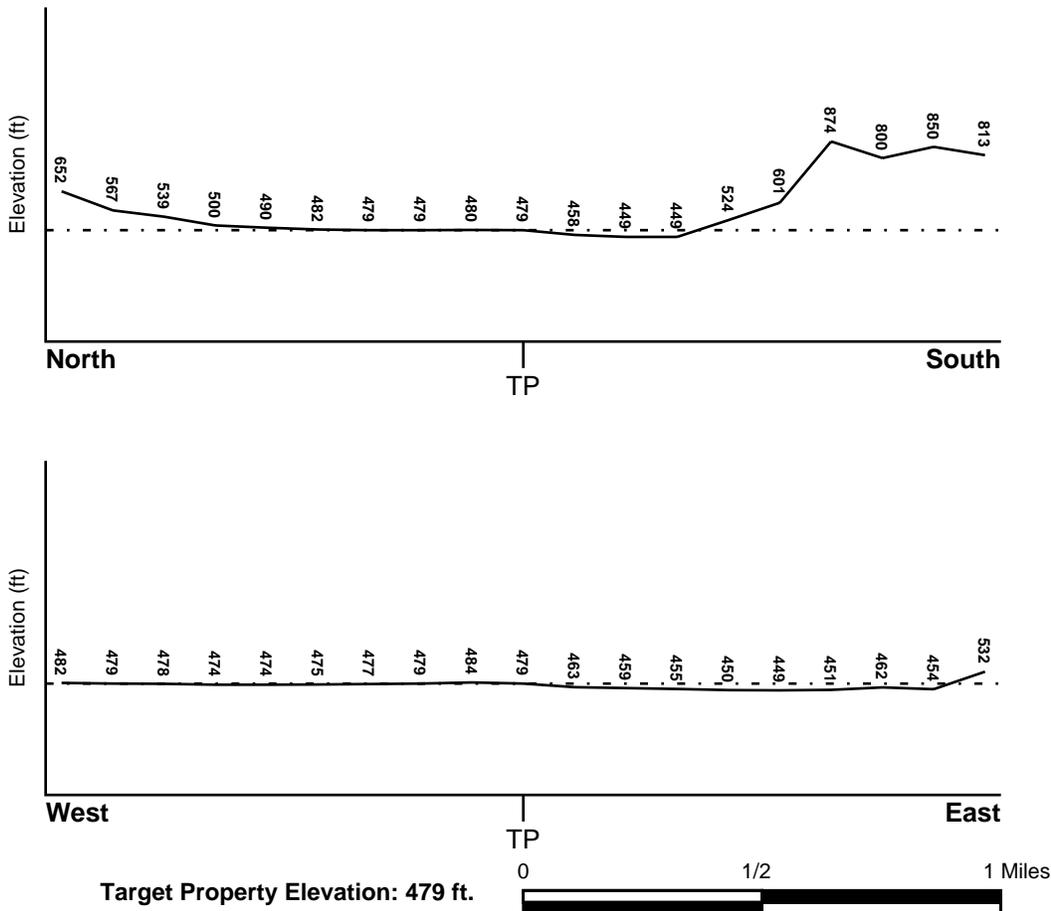
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Target Property County</u> COLUMBIA, PA	<u>FEMA Flood Electronic Data</u> YES - refer to the Overview Map and Detail Map
Flood Plain Panel at Target Property:	4210040005B
Additional Panels in search area:	4203390005B 4215540001A 4203420010C

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u> BLOOMSBURG	<u>NWI Electronic Data Coverage</u> YES - refer to the Overview Map and Detail Map
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HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era: Paleozoic
System: Devonian
Series: Middle Devonian
Code: D2 (*decoded above as Era, System & Series*)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: POPE

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: LOW

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	8 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 5.50 Min: 3.60
2	8 inches	42 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 0.60	Max: 5.50 Min: 3.60
3	42 inches	85 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 0.60	Max: 5.50 Min: 3.60

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: silt loam
 gravelly - loam
 loam
 gravelly - sandy loam
 very stony - sandy loam
 very stony - silt loam

Surficial Soil Types: silt loam
 gravelly - loam
 loam
 gravelly - sandy loam
 very stony - sandy loam
 very stony - silt loam

Shallow Soil Types: gravelly - sandy loam
 channery - silt loam

Deeper Soil Types: stratified
 fine sandy loam
 very gravelly - loamy coarse sand
 loamy sand
 silt loam
 clay loam
 very gravelly - sand
 very gravelly - loamy sand

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

very gravelly - fine sandy loam
channery - loam

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS State Database	Nearest PWS within 1 mile 1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	USGS2202417	1/4 - 1/2 Mile NNW
D8	USGS2202381	1/2 - 1 Mile WSW
F13	USGS2202389	1/2 - 1 Mile West
I20	USGS2195197	1/2 - 1 Mile SE
M30	USGS2202448	1/2 - 1 Mile NE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
G15	PA4190328	1/2 - 1 Mile NNW

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

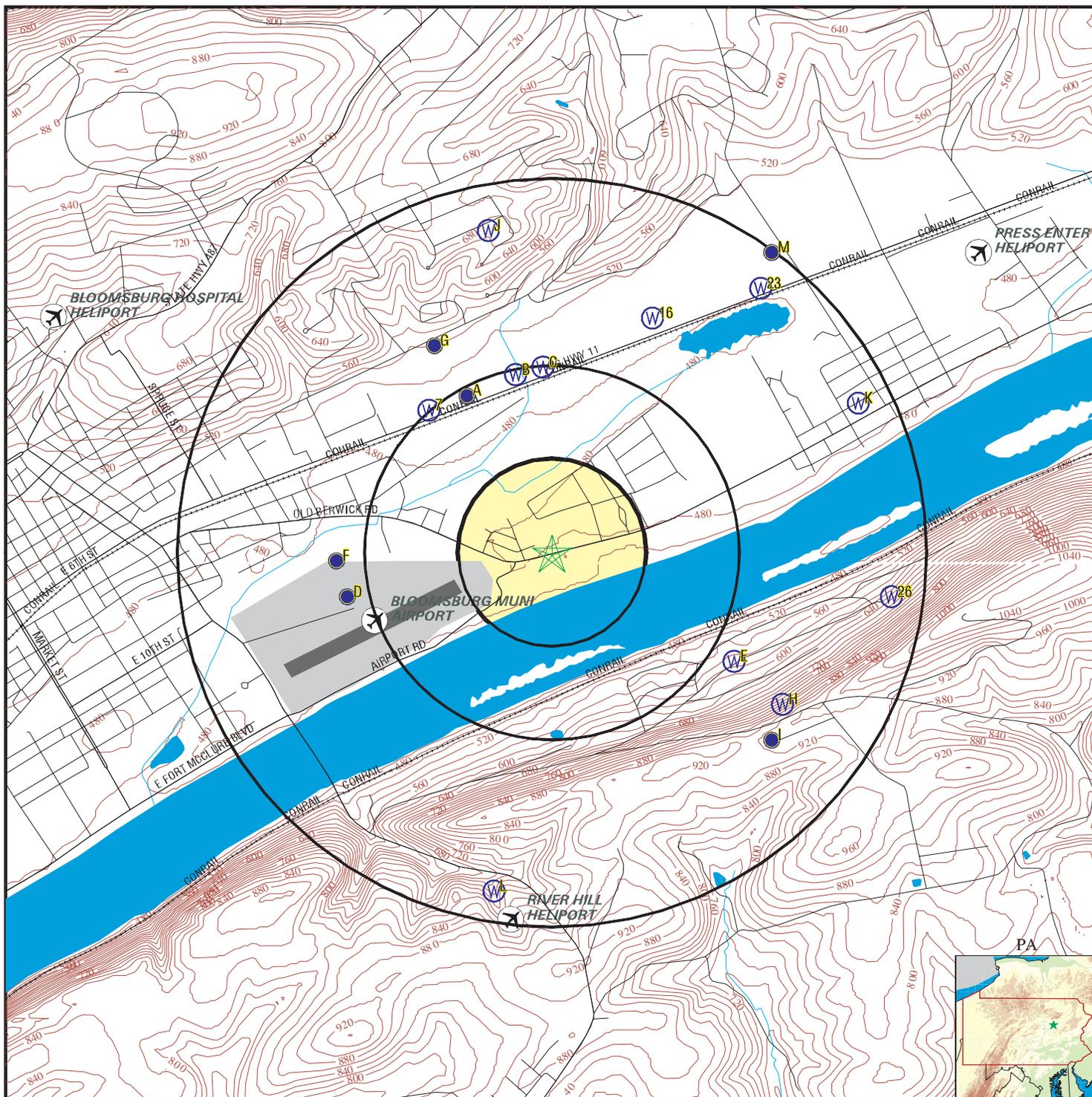
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A2	PA1000000133622	1/4 - 1/2 Mile NNW
B3	SPAW0044112	1/4 - 1/2 Mile NNW
B4	PA1000000133712	1/4 - 1/2 Mile NNW
C5	PA1000000133742	1/4 - 1/2 Mile North
C6	SPAW0044111	1/4 - 1/2 Mile North
7	PA1000000133498	1/2 - 1 Mile NW
D9	PA1000000132506	1/2 - 1 Mile WSW
E10	PA1000000132205	1/2 - 1 Mile ESE
E11	SPAW0043954	1/2 - 1 Mile ESE
F12	PA1000000132720	1/2 - 1 Mile West

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

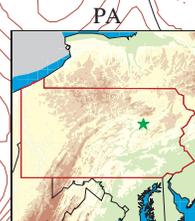
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
G14	PA1000000133820	1/2 - 1 Mile NNW
16	PA1000000133972	1/2 - 1 Mile NNE
H17	PA1000000132085	1/2 - 1 Mile ESE
H18	PA1000000132086	1/2 - 1 Mile ESE
I19	PA1000000131891	1/2 - 1 Mile SE
J21	PA1000000134320	1/2 - 1 Mile North
J22	SPAW0043995	1/2 - 1 Mile North
23	PA1000000134099	1/2 - 1 Mile NE
K24	SPAW0044129	1/2 - 1 Mile ENE
K25	PA1000000133549	1/2 - 1 Mile ENE
26	PA1000000132505	1/2 - 1 Mile East
L27	PA1000000131444	1/2 - 1 Mile South
L28	SPAW0043804	1/2 - 1 Mile South
M29	PA1000000134220	1/2 - 1 Mile NE

PHYSICAL SETTING SOURCE MAP - 01718793.14r



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location



SITE NAME: Bloomsburg USARC, PA
 ADDRESS: 1469 OLD BERWICK RD
 BLOOMSBURG PA 17815
 LAT/LONG: 41.0004 / 76.4270

CLIENT: CH2M Hill
 CONTACT: Mary Beth Jacques
 INQUIRY #: 01718793.14r
 DATE: July 19, 2006

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A1
NNW
1/4 - 1/2 Mile
Higher

FED USGS USGS2202417

Agency cd:	USGS	Site no:	410023076255401
Site name:	CO 136		
Latitude:	410023		
Longitude:	0762554	Dec lat:	41.00647557
Dec lon:	-76.43133335	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	42
State:	42	County:	037
Country:	US	Land net:	Not Reported
Location map:	BLOOMSBURG	Map scale:	24000
Altitude:	495.00	Altitude method:	M
Altitude accuracy:	10	Altitude datum:	NGVD29
Hydrologic:	Upper SusquehannaLackawanna. Pennsylvania. Area = 1760 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19741203
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	TONOLOWAY LIMESTONE		
Well depth:	75.0	Hole depth:	75.0
Source of depth data:	reporting agency (generally USGS)	Project number:	444206800
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1980-06-09	Ground water data end date:	1981-04-29
Ground water data count:	3		

Ground-water levels, Number of Measurements: 3

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1981-04-29	5.56		1980-12-22	7.69	
1980-06-09	5.26				

A2
NNW
1/4 - 1/2 Mile
Higher

PA WELLS PA1000000133622

WELLID:	410023076255401	LOCALWELLN:	CO 136
COUNTY:	COLUMBIA		
AAPG:	351TNLY		
TOPOGRAPHY:	VALLEY FLAT		
WELLDEPTH:	75		
ELEVATION:	500		
ELEVMETHOD:	INTERPOLATED FROM TOPOGRAPHIC MAP		
ACCURACYOF:	10		
HYDROLOGIC:	02050107		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

LATLONGACCURACY: ACCURATE TO +1 SECOND
 QUAD: BLOOMSBURG
 TYPEOFSITE: WELL
 DATECREATE: Not Reported DATEUPDATE: Not Reported
 DATARELIABILITY: FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)
 SOURCE DEPTH DATA: USGS OR PAGES
 MUNICIPALITY: SCOTT TWP.
 LATITUDEDD: 41.00639
 LONGITUDEDD: -76.43167
 DEPTH TO BED: 0
 DATEDRILLE: Not Reported
 PAGWIS ID: 13940

Agency Use Section:

Agency Use of Site: OBSERVATION
 Agency Use Date: Not Reported

Construction Information:

Construction Date: 12/03/1974 00:00:00
 Driller: 1067
 Source Cons Data: DRILLER'S RECORD
 Method Cons: AIR ROTARY
 Finish: OPEN HOLE

Casing Information:

Top Of Casing:	0	Casing Wall Thickness:	Not Reported
Bottom Of Casing:	40	Casing Diameter:	6
Casing:	STEEL		

Hole Information:

Top Of Hole:	0		
Bottom Of Hole:	75	Hole Diameter:	6

Geohydrologic Information:

A A P G:	351TNLY		
Lithology:	LIMESTONE		
Contributing Unit:	PRIMARY		
Top Of Interval:	30	Bottom Of Interval:	Not Reported

Water Use Information:

Site Use: WITHDRAWAL
 Water Use: DOMESTIC

Owner Information:

Owner: AMOCO
 Date Ownership: 12/03/1974 00:00:00

B3
NNW
1/4 - 1/2 Mile
Higher

PA WELLS SPAW0044112

Well ID:	X 0187	County	COLUMBIA
Owner's Name:	EVERT S H INC	Longitude:	762545
Latitude:	410026	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Quadrangle:	BLOOMSBURG	Topographic Setting:	VALLEY FLAT
Hydrologic Unit:	Not Reported	Site Usage:	WITHDRAWAL
Water Usage:	DOMESTIC	Finish:	OPEN HOLE
Well Depth:	58	Casing1 Diameter(inches):	6
Casing 1:	37	Casing2 Diameter(inches):	Not Reported
Casing2:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Grouted:	Not Reported	Date Drilled:	00-00-67
Static Water Level:	4	Production WL:	Not Reported
Yield (gpm):	15	Yield Measurement Method:	3
Drawdown:	54	Test Time:	1
Bedrock:	30	Driller:	0160
Water Bearing Zone 1:	50	Water Bearing Zone 2:	Not Reported
Water Bearing Zone 3:	Not Reported	Lithology:	LIMESTONE
Municipality:	SCOTT	Remark:	1034
Aquifer:	WILLS CREEK FORMATION		

**B4
NNW
1/4 - 1/2 Mile
Higher**

PA WELLS PA1000000133712

WELLID:	Not Reported	LOCALWELLN:	X 0187
COUNTY:	COLUMBIA		
AAPG:	351WLCK		
TOPOGRAPHY:	VALLEY FLAT		
WELLDEPTH:	58		
ELEVATION:	0		
ELEVMETHOD:	Not Reported		
ACCURACYOF:	Not Reported		
HYDROLOGIC:	Not Reported		
LATLONGACCURACY:	ACCURATE TO +1 MINUTE		
QUAD:	BLOOMSBURG		
TYPEOFSITE:	WELL		
DATECREATE:	Not Reported	DATEUPDATE:	Not Reported
DATARELIABILITY:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
SOURCE DEPTH DATA:	DRILLER'S RECORD		
MUNICIPALITY:	SCOTT TWP.		
LATITUDEDD:	41.00722		
LONGITUDEDD:	-76.42917		
DEPTHTOBED:	30		
DATEDRILLE:	Not Reported		
PAGWIS ID:	88677		

Construction Information:

Construction Date:	01/01/1967 00:00:00
Driller:	0160
Source Cons Data:	DRILLER'S RECORD
Method Cons:	Not Reported
Finish:	OPEN HOLE

Casing Information:

Top Of Casing:	0	Casing Wall Thickness:	Not Reported
Bottom Of Casing:	37	Casing Diameter:	6
Casing:	Not Reported		

Geohydrologic Information:

A A P G:	351WLCK		
Lithology:	LS		
Contributing Unit:	PRIMARY		
Top Of Interval:	Not Reported	Bottom Of Interval:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Water Use Information:

Site Use: WITHDRAWAL
 Water Use: DOMESTIC

Owner Information:

Owner: EVERT S H INC
 Date Ownership: Not Reported

C5
North
1/4 - 1/2 Mile
Higher

PA WELLS PA1000000133742

WELLID:	Not Reported	LOCALWELLN:	X 0186
COUNTY:	COLUMBIA		
AAPG:	351WLCK		
TOPOGRAPHY:	VALLEY FLAT		
WELLDEPTH:	55		
ELEVATION:	0		
ELEVMETHOD:	Not Reported		
ACCURACYOF:	Not Reported		
HYDROLOGIC:	Not Reported		
LATLONGACCURACY:	ACCURATE TO +1 MINUTE		
QUAD:	BLOOMSBURG		
TYPEOFSITE:	WELL		
DATECREATE:	Not Reported	DATEUPDATE:	Not Reported
DATARELIABILITY:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
SOURCE DEPTH DATA:	DRILLER'S RECORD		
MUNICIPALITY:	SCOTT TWP.		
LATITUDEDD:	41.0075		
LONGITUDEDD:	-76.42778		
DEPTHTOBED:	31		
DATEDRILLE:	Not Reported		
PAGWIS ID:	88676		

Construction Information:

Construction Date: 01/01/1967 00:00:00
 Driller: 0160
 Source Cons Data: DRILLER'S RECORD
 Method Cons: Not Reported
 Finish: OPEN HOLE

Casing Information:

Top Of Casing:	0	Casing Wall Thickness:	Not Reported
Bottom Of Casing:	Not Reported	Casing Diameter:	6
Casing:	Not Reported		

Geohydrologic Information:

A A P G:	351WLCK		
Lithology:	LS		
Contributing Unit:	PRIMARY		
Top Of Interval:	Not Reported	Bottom Of Interval:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Water Use Information:

Site Use: WITHDRAWAL
 Water Use: DOMESTIC

Owner Information:

Owner: EVERT INC S H
 Date Ownership: Not Reported

**C6
 North
 1/4 - 1/2 Mile
 Higher**

PA WELLS SPAW0044111

Well ID:	X 0186	County:	COLUMBIA
Owner's Name:	EVERT INC S H	Longitude:	762540
Latitude:	410027	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Quadrangle:	BLOOMSBURG	Topographic Setting:	VALLEY FLAT
Hydrologic Unit:	Not Reported	Site Usage:	WITHDRAWAL
Water Usage:	DOMESTIC	Finish:	OPEN HOLE
Well Depth:	55	Casing1 Diameter(inches):	6
Casing 1:	Not Reported	Casing2 Diameter(inches):	Not Reported
Casing2:	Not Reported	Date Drilled:	00-00-67
Grouted:	Not Reported	Production WL:	Not Reported
Static Water Level:	1	Yield Measurement Method:	3
Yield (gpm):	60	Test Time:	8
Drawdown:	1	Driller:	0160
Bedrock:	31	Water Bearing Zone 2:	Not Reported
Water Bearing Zone 1:	50	Lithology:	LIMESTONE
Water Bearing Zone 3:	Not Reported	Remark:	1034
Municipality:	SCOTT		
Aquifer:	WILLS CREEK FORMATION		

**7
 NW
 1/2 - 1 Mile
 Higher**

PA WELLS PA1000000133498

WELLID:	Not Reported	LOCALWELLN:	Not Reported
COUNTY:	COLUMBIA		
AAPG:	347KRTL		
TOPOGRAPHY:	VALLEY FLAT		
WELLDEPTH:	0		
ELEVATION:	495		
ELEVMETHOD:	Not Reported		
ACCURACYOF:	Not Reported		
HYDROLOGIC:	Not Reported		
LATLONGACCURACY:	Not Reported		
QUAD:	BLOOMSBURG		
TYPEOFSITE:	Not Reported		
DATECREATE:	Not Reported	DATEUPDATE:	Not Reported
DATA RELIABILITY:	Not Reported		
SOURCE DEPTH DATA:	Not Reported		
MUNICIPALITY:	SCOTT TWP.		
LATITUDEDD:	41.00583		
LONGITUDEDD:	-76.43361		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

DEPTHTOBED: 0
 DATEDRILLE: Not Reported
 PAGWIS ID: 214486

Construction Information:

Construction Date: Not Reported
 Driller: Not Reported
 Source Cons Data: Not Reported
 Method Cons: Not Reported
 Finish: Not Reported

Geohydrologic Information:

A A P G: 347KRTL
 Lithology: Not Reported
 Contributing Unit: Not Reported
 Top Of Interval: Not Reported Bottom Of Interval: Not Reported

Water Use Information:

Site Use: WITHDRAWAL
 Water Use: COMMERCIAL

Owner Information:

Owner: LONG JOHN SILVER'S 3655
 Date Ownership: Not Reported

Remarks Information:

Remark: Population Served = 25
 Remark Date: Not Reported

Other ID Information:

Other Identifier: 4190869 Other I D Assignor: PA DEP PWSID

D8
WSW
1/2 - 1 Mile
Lower

FED USGS USGS2202381

Agency cd:	USGS	Site no:	405955076261601
Site name:	CO 189		
Latitude:	405955		
Longitude:	0762616	Dec lat:	40.99869792
Dec lon:	-76.43744482	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	42
State:	42	County:	037
Country:	US	Land net:	Not Reported
Location map:	CATAWISSA	Map scale:	24000
Altitude:	470.00	Altitude method:	M
Altitude accuracy:	10	Altitude datum:	NGVD29
Hydrologic:	Upper SusquehannaLackawanna. Pennsylvania. Area = 1760 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	MARCELLUS SHALE		
Well depth:	355	Hole depth:	355
Source of depth data:	Not Reported	Project number:	444206800
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Peak flow data count: 0
 Water quality data end date: 0000-00-00
 Ground water data begin date: 1966-12-12
 Ground water data count: 1
 Water quality data begin date: 0000-00-00
 Water quality data count: 0
 Ground water data end date: 1966-12-12

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1966-12-12	30.00		1966-12-12	30.00	

D9
WSW
1/2 - 1 Mile
Lower

PA WELLS PA1000000132506

WELLID: 405955076261601 LOCALWELLN: CO 189
 COUNTY: COLUMBIA
 AAPG: 344MRCL
 TOPOGRAPHY: VALLEY FLAT
 WELLDEPTH: 355
 ELEVATION: 470
 ELEVMETHOD: INTERPOLATED FROM TOPOGRAPHIC MAP
 ACCURACYOF: 10
 HYDROLOGIC: 02050107
 LATLONGACCURACY: ACCURATE TO +1 SECOND
 QUAD: CATAWISSA
 TYPEOFSITE: WELL
 DATECREATE: Not Reported DATEUPDATE: Not Reported
 DATARELIABILITY: FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)
 SOURCE DEPTH DATA: OTHER/UNKNOWN/UNSPECIFIED
 MUNICIPALITY: BLOOMSBURG TOWN
 LATITUDEDD: 40.99861
 LONGITUDEDD: -76.43778
 DEPTHTOBED: 0
 DATEDRILLE: Not Reported
 PAGWIS ID: 14047

Agency Use Section:

Agency Use of Site: OBSERVATION
 Agency Use Date: Not Reported

Construction Information:

Construction Date: 12/12/1966 00:00:00
 Driller: 0160
 Source Cons Data: DRILLER'S RECORD
 Method Cons: AIR ROTARY
 Finish: OPEN HOLE

Casing Information:

Top Of Casing: 0 Casing Wall Thickness: Not Reported
 Bottom Of Casing: 26 Casing Diameter: 6
 Casing: UNKNOWN

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Casing Information:

Top Of Casing:	0	Casing Wall Thickness:	Not Reported
Bottom Of Casing:	81	Casing Diameter:	6
Casing:	Not Reported		

Geohydrologic Information:

A A P G:	341CSKL		
Lithology:	LS		
Contributing Unit:	PRIMARY		
Top Of Interval:	Not Reported	Bottom Of Interval:	Not Reported

Water Use Information:

Site Use:	WITHDRAWAL
Water Use:	DOMESTIC

Owner Information:

Owner:	YEHEY C
Date Ownership:	Not Reported

**E11
ESE
1/2 - 1 Mile
Higher**

PA WELLS SPAW0043954

Well ID:	X 0127	County:	COLUMBIA
Owner's Name:	YEHEY C	Longitude:	762505
Latitude:	405946	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Quadrangle:	CATAWISSA	Topographic Setting:	HILLSIDE
Hydrologic Unit:	Not Reported	Site Usage:	WITHDRAWAL
Water Usage:	DOMESTIC	Finish:	OPEN HOLE
Well Depth:	395	Casing1 Diameter(inches):	6
Casing 1:	81	Casing2 Diameter(inches):	Not Reported
Casing2:	Not Reported	Date Drilled:	00-00-67
Grouted:	Not Reported	Production WL:	Not Reported
Static Water Level:	35	Yield Measurement Method:	1
Yield (gpm):	30	Test Time:	2
Drawdown:	360	Driller:	0000
Bedrock:	74	Water Bearing Zone 2:	109
Water Bearing Zone 1:	92	Lithology:	LIMESTONE
Water Bearing Zone 3:	132	Remark:	1134
Municipality:	MAIN		
Aquifer:	CATSKILL FORMATION		

**F12
West
1/2 - 1 Mile
Lower**

PA WELLS PA1000000132720

WELLID:	410000076261801	LOCALWELLN:	CO 190
COUNTY:	COLUMBIA		
AAPG:	344MRCL		
TOPOGRAPHY:	VALLEY FLAT		
WELLDEPTH:	415		
ELEVATION:	480		
ELEVMETHOD:	INTERPOLATED FROM TOPOGRAPHIC MAP		
ACCURACYOF:	10		
HYDROLOGIC:	02050107		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

LATLONGACCURACY: UNKNOWN
 QUAD: CATAWISSA
 TYPEOFSITE: WELL
 DATECREATE: Not Reported DATEUPDATE: Not Reported
 DATARELIABILITY: FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)
 SOURCE DEPTH DATA: OTHER/UNKNOWN/UNSPECIFIED
 MUNICIPALITY: BLOOMSBURG TOWN
 LATITUDEDD: 41
 LONGITUDEED: -76.43833
 DEPTHTOBED: 0
 DATEDRILLE: Not Reported
 PAGWIS ID: 14050

Agency Use Section:

Agency Use of Site: OBSERVATION
 Agency Use Date: Not Reported

Construction Information:

Construction Date: 12/19/1966 00:00:00
 Driller: 0160
 Source Cons Data: DRILLER'S RECORD
 Method Cons: AIR ROTARY
 Finish: OPEN HOLE

Casing Information:

Top Of Casing:	0	Casing Wall Thickness:	Not Reported
Bottom Of Casing:	24	Casing Diameter:	10
Casing:	UNKNOWN		

Hole Information:

Top Of Hole:	0		
Bottom Of Hole:	415	Hole Diameter:	10

Geohydrologic Information:

A A P G:	344MRCL		
Lithology:	SHALE		
Contributing Unit:	PRIMARY		
Top Of Interval:	15	Bottom Of Interval:	Not Reported

Water Use Information:

Site Use: UNUSED
 Water Use: INDUSTRIAL

Owner Information:

Owner: KAWNEER, INC.
 Date Ownership: 12/19/1966 00:00:00

Other ID Information:

Other Identifier:	2	Other I D Assignor:	OWNER PA
Other Identifier:	238	Other I D Assignor:	PAGS

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	410000076261801
Site name:	CO 190		
Latitude:	410000		
Longitude:	0762618	Dec lat:	41.00008682
Dec lon:	-76.43800035	Coor meth:	M
Coor accr:	U	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	42
State:	42	County:	037
Country:	US	Land net:	Not Reported
Location map:	CATAWISSA	Map scale:	24000
Altitude:	475.00	Altitude method:	M
Altitude accuracy:	10	Altitude datum:	NGVD29
Hydrologic:	Upper SusquehannaLackawanna. Pennsylvania. Area = 1760 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19661219
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	MARCELLUS SHALE		
Well depth:	415	Hole depth:	415
Source of depth data:	Not Reported		
Real time data flag:	0	Project number:	444206800
Daily flow data end date:	0000-00-00	Daily flow data begin date:	0000-00-00
Peak flow data begin date:	0000-00-00	Daily flow data count:	0
Peak flow data count:	0	Peak flow data end date:	0000-00-00
Water quality data end date:	1981-08-26	Water quality data begin date:	1981-08-26
Ground water data begin date:	1980-07-29	Water quality data count:	1
Ground water data count:	3	Ground water data end date:	1981-04-29

Ground-water levels, Number of Measurements: 6

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1981-04-29	6.00		1981-04-29	6.00	
1980-12-23	8.37		1980-12-23	8.37	
1980-07-29	6.69		1980-07-29	6.69	

**G14
NNW
1/2 - 1 Mile
Higher**

PA WELLS PA1000000133820

WELLID:	Not Reported	LOCALWELLN:	Not Reported
COUNTY:	COLUMBIA		
AAPG:	351WLCK		
TOPOGRAPHY:	Not Reported		
WELLDEPTH:	0		
ELEVATION:	0		
ELEVMETHOD:	Not Reported		
ACCURACYOF:	Not Reported		
HYDROLOGIC:	Not Reported		
LATLONGACCURACY:	Not Reported		
QUAD:	BLOOMSBURG		
TYPEOFSITE:	Not Reported		
DATECREATE:	Not Reported	DATEUPDATE:	Not Reported
DATARELIABILITY:	Not Reported		
SOURCE DEPTH DATA:	Not Reported		
MUNICIPALITY:	SCOTT TWP.		
LATITUDEDD:	41.00833		
LONGITUDEDD:	-76.43333		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

DEPTHTOBED: 0
 DATEDRILLE: Not Reported
 PAGWIS ID: 214436

Construction Information:

Construction Date: Not Reported
 Driller: Not Reported
 Source Cons Data: Not Reported
 Method Cons: Not Reported
 Finish: Not Reported

Geohydrologic Information:

A A P G: 351WLCK
 Lithology: Not Reported
 Contributing Unit: Not Reported
 Top Of Interval: Not Reported Bottom Of Interval: Not Reported

Water Use Information:

Site Use: WITHDRAWAL
 Water Use: COMMERCIAL

Owner Information:

Owner: BURGER KING
 Date Ownership: Not Reported

Remarks Information:

Remark: Population Served = 25
 Remark Date: Not Reported

Other ID Information:

Other Identifier: 4190328 Other I D Assignor: PA DEP PWSID

**G15
 NNW
 1/2 - 1 Mile
 Higher**

FRDS PWS PA4190328

PWS ID: PA4190328 PWS Status: Active
 Date Initiated: Not Reported Date Deactivated: Not Reported
 PWS Name: BURGER KING
 RD 3 ROUTE 11
 BLOOMSBURG, PA 17815

Addressee / Facility: Mailing
 BURGER KING
 RD 3 ROUTE 11
 BLOOMSBURG, PA 17815

Facility Latitude: 41 00 30 Facility Longitude: 076 26 00
 City Served: Not Reported
 Treatment Class: Untreated Population: 00000800

PWS currently has or had major violation(s) or enforcement: Yes

Violations information not reported.

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

ENFORCEMENT INFORMATION:

System Name:	BURGER KING		
Violation Type:	Monitoring, Regular		
Contaminant:	NITRATE		
Compliance Period:	1994-01-01 - 1994-12-31	Analytical Value:	00000000.00
Violation ID:	9505426	Enforcement ID:	9500001E
Enforcement Date:	1995-03-13	Enf. Action:	State Formal NOV Issued
System Name:	BURGER KING		
Violation Type:	Monitoring, Regular		
Contaminant:	NITRATE		
Compliance Period:	1994-01-01 - 1994-12-31	Analytical Value:	00000000.00
Violation ID:	9505426	Enforcement ID:	9500002E
Enforcement Date:	1995-07-14	Enf. Action:	State Compliance Achieved

**16
NNE
1/2 - 1 Mile
Higher**

PA WELLS PA1000000133972

WELLID:	Not Reported	LOCALWELLN:	Not Reported
COUNTY:	COLUMBIA		
AAPG:	347KRTL		
TOPOGRAPHY:	VALLEY FLAT		
WELLDEPTH:	0		
ELEVATION:	490		
ELEVMETHOD:	Not Reported		
ACCURACYOF:	Not Reported		
HYDROLOGIC:	Not Reported		
LATLONGACCURACY:	Not Reported		
QUAD:	BLOOMSBURG		
TYPEOFSITE:	Not Reported		
DATECREATE:	Not Reported	DATEUPDATE:	Not Reported
DATARELIABILITY:	Not Reported		
SOURCE DEPTH DATA:	Not Reported		
MUNICIPALITY:	SCOTT TWP.		
LATITUDEDD:	41.0094		
LONGITUDEDD:	-76.4222		
DEPTHTOBED:	0		
DATEDRILLE:	Not Reported		
PAGWIS ID:	214361		

Construction Information:

Construction Date:	Not Reported
Driller:	Not Reported
Source Cons Data:	Not Reported
Method Cons:	Not Reported
Finish:	Not Reported

Geohydrologic Information:

A A P G:	347KRTL		
Lithology:	Not Reported		
Contributing Unit:	Not Reported		
Top Of Interval:	Not Reported	Bottom Of Interval:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Casing Information:

Top Of Casing:	0	Casing Wall Thickness:	Not Reported
Bottom Of Casing:	62	Casing Diameter:	6
Casing:	UNKNOWN		

Hole Information:

Top Of Hole:	0		
Bottom Of Hole:	410	Hole Diameter:	0

Geohydrologic Information:

A A P G:	341TMRK		
Lithology:	SANDSTONE AND SHALE		
Contributing Unit:	PRIMARY		
Top Of Interval:	Not Reported	Bottom Of Interval:	Not Reported

Water Use Information:

Site Use:	WITHDRAWAL
Water Use:	PUBLIC SUPPLY

Owner Information:

Owner:	WONDERVIEW WATER CO.
Date Ownership:	01/01/1977 00:00:00

**I19
SE
1/2 - 1 Mile
Higher**

PA WELLS PA1000000131891

WELLID:	405935076245801	LOCALWELLN:	CO 215
COUNTY:	COLUMBIA		
AAPG:	341TMRK		
TOPOGRAPHY:	HILLTOP		
WELLDEPTH:	0		
ELEVATION:	930		
ELEVMETHOD:	INTERPOLATED FROM TOPOGRAPHIC MAP		
ACCURACYOF:	10		
HYDROLOGIC:	02050107		
LATLONGACCURACY:	UNKNOWN		
QUAD:	CATAWISSA		
TYPEOFSITE:	WELL		
DATECREATE:	Not Reported	DATEUPDATE:	Not Reported
DATARELIABILITY:	MINIMAL DATA		
SOURCE DEPTH DATA:	OTHER/UNKNOWN/UNSPECIFIED		
MUNICIPALITY:	MAIN TWP.		
LATITUDEDD:	40.99306		
LONGITUDEDD:	-76.41611		
DEPTHTOBED:	0		
DATEDRILLE:	Not Reported		
PAGWIS ID:	13933		

Agency Use Section:

Agency Use of Site:	OBSERVATION
Agency Use Date:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Casing Information:

Top Of Casing:	0	Casing Wall Thickness:	Not Reported
Bottom Of Casing:	62	Casing Diameter:	6
Casing:	UNKNOWN		

Hole Information:

Top Of Hole:	0		
Bottom Of Hole:	410	Hole Diameter:	0

Geohydrologic Information:

A A P G:	341TMRK		
Lithology:	SANDSTONE AND SHALE		
Contributing Unit:	PRIMARY		
Top Of Interval:	Not Reported	Bottom Of Interval:	Not Reported

Water Use Information:

Site Use:	WITHDRAWAL
Water Use:	DOMESTIC

**I20
SE
1/2 - 1 Mile
Higher**

FED USGS USGS2195197

Agency cd:	USGS	Site no:	405935076245801
Site name:	CO 215		
Latitude:	405935		
Longitude:	0762458	Dec lat:	40.99314223
Dec lon:	-76.41577729	Coor meth:	M
Coor accr:	U	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	42
State:	42	County:	037
Country:	US	Land net:	Not Reported
Location map:	CATAWISSA	Map scale:	24000
Altitude:	925.00	Altitude method:	M
Altitude accuracy:	10	Altitude datum:	NGVD29
Hydrologic:	Upper SusquehannaLackawanna. Pennsylvania. Area = 1760 sq.mi.		
Topographic:	Hilltop		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	TRIMMERS ROCK FORMATION		
Well depth:	Not Reported	Hole depth:	Not Reported
Source of depth data:	Not Reported	Project number:	Not Reported
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1982-04-08
Water quality data end date:	1982-04-08	Water quality data count:	1
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

J21
North
1/2 - 1 Mile
Higher

PA WELLS PA1000000134320

WELLID:	Not Reported	LOCALWELLN:	0456N
COUNTY:	COLUMBIA		
AAPG:	351WLCK		
TOPOGRAPHY:	FLAT SURFACE		
WELLDEPTH:	275		
ELEVATION:	0		
ELEVMETHOD:	Not Reported		
ACCURACYOF:	Not Reported		
HYDROLOGIC:	02050107		
LATLONGACCURACY:	ACCURATE TO +1 MINUTE		
QUAD:	BLOOMSBURG		
TYPEOFSITE:	WELL		
DATECREATE:	Not Reported	DATEUPDATE:	Not Reported
DATARELIABILITY:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
SOURCE DEPTH DATA:	DRILLER'S RECORD		
MUNICIPALITY:	MONTOUR TWP.		
LATITUDEDD:	41.01278		
LONGITUDEDD:	-76.43056		
DEPTHTOBED:	25		
DATEDRILLE:	Not Reported		
PAGWIS ID:	88560		

Construction Information:

Construction Date:	07/10/1981 00:00:00
Driller:	1564
Source Cons Data:	DRILLER'S RECORD
Method Cons:	Not Reported
Finish:	Not Reported

Casing Information:

Top Of Casing:	0	Casing Wall Thickness:	Not Reported
Bottom Of Casing:	30	Casing Diameter:	6
Casing:	Not Reported		

Geohydrologic Information:

A A P G:	351WLCK		
Lithology:	SH		
Contributing Unit:	PRIMARY		
Top Of Interval:	Not Reported	Bottom Of Interval:	Not Reported

Water Use Information:

Site Use:	WITHDRAWAL
Water Use:	DOMESTIC

Owner Information:

Owner:	SPENGLER A
Date Ownership:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

J22
North
1/2 - 1 Mile
Higher

PA WELLS SPAW0043995

Well ID:	0456N	County:	COLUMBIA
Owner's Name:	SPENGLER A	Longitude:	762550
Latitude:	410046	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Quadrangle:	BLOOMSBURG	Topographic Setting:	FLAT SURFACE
Hydrologic Unit:	02050107	Site Usage:	WITHDRAWAL
Water Usage:	DOMESTIC	Finish:	Not Reported
Well Depth:	275	Casing1 Diameter(inches):	6
Casing 1:	30	Casing2 Diameter(inches):	Not Reported
Casing2:	Not Reported	Date Drilled:	7-10-81
Grouted:	Not Reported	Production WL:	Not Reported
Static Water Level:	Not Reported	Yield Measurement Method:	E
Yield (gpm):	6	Test Time:	Not Reported
Drawdown:	Not Reported	Driller:	1564
Bedrock:	25	Water Bearing Zone 2:	Not Reported
Water Bearing Zone 1:	200	Lithology:	SHALE
Water Bearing Zone 3:	Not Reported	Remark:	Not Reported
Municipality:	MONTOUR		
Aquifer:	WILLS CREEK FORMATION		

23
NE
1/2 - 1 Mile
Higher

PA WELLS PA1000000134099

WELLID:	Not Reported	LOCALWELLN:	Not Reported
COUNTY:	COLUMBIA		
AAPG:	347KRTL		
TOPOGRAPHY:	Not Reported		
WELLDEPTH:	0		
ELEVATION:	0		
ELEVMETHOD:	Not Reported		
ACCURACYOF:	Not Reported		
HYDROLOGIC:	Not Reported		
LATLONGACCURACY:	Not Reported		
QUAD:	BLOOMSBURG		
TYPEOFSITE:	Not Reported		
DATECREATE:	Not Reported	DATEUPDATE:	Not Reported
DATARELIABILITY:	Not Reported		
SOURCE DEPTH DATA:	Not Reported		
MUNICIPALITY:	SCOTT TWP.		
LATITUDEDD:	41.01055		
LONGITUDEDD:	-76.41667		
DEPTHTOBED:	0		
DATEDRILLE:	Not Reported		
PAGWIS ID:	214464		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Construction Information:

Construction Date: Not Reported
 Driller: Not Reported
 Source Cons Data: Not Reported
 Method Cons: Not Reported
 Finish: Not Reported

Geohydrologic Information:

A A P G: 347KRTL
 Lithology: Not Reported
 Contributing Unit: Not Reported
 Top Of Interval: Not Reported
 Bottom Of Interval: Not Reported

Water Use Information:

Site Use: WITHDRAWAL
 Water Use: COMMERCIAL

Owner Information:

Owner: CHINA QUEEN
 Date Ownership: Not Reported

Remarks Information:

Remark: Population Served = 25
 Remark Date: Not Reported

Other ID Information:

Other Identifier: 4190827
 Other I D Assignor: PA DEP PWSID

**K24
 ENE
 1/2 - 1 Mile
 Higher**

PA WELLS SPAW0044129

Well ID:	0493N	County:	COLUMBIA
Owner's Name:	WOLFINGER HOMES	Longitude:	762442
Latitude:	410022	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Quadrangle:	BLOOMSBURG	Topographic Setting:	FLAT SURFACE
Hydrologic Unit:	02050107	Site Usage:	WITHDRAWAL
Water Usage:	DOMESTIC	Finish:	OPEN HOLE
Well Depth:	125	Casing1 Diameter(inches):	6
Casing 1:	60	Casing2 Diameter(inches):	Not Reported
Casing2:	Not Reported	Date Drilled:	6-19-84
Grouted:	Not Reported	Production WL:	Not Reported
Static Water Level:	Not Reported	Yield Measurement Method:	E
Yield (gpm):	10	Test Time:	Not Reported
Drawdown:	Not Reported	Driller:	1564
Bedrock:	54	Water Bearing Zone 2:	Not Reported
Water Bearing Zone 1:	96	Lithology:	SHALE
Water Bearing Zone 3:	Not Reported	Remark:	CASING MATERIAL=STEEL
Municipality:	SOUTH CENTRE		
Aquifer:	MAHANTANGO FORMATION		

**K25
 ENE
 1/2 - 1 Mile
 Higher**

PA WELLS PA1000000133549

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

WELLID:	Not Reported	LOCALWELLN:	0493N
COUNTY:	COLUMBIA		
AAPG:	344MNNG		
TOPOGRAPHY:	FLAT SURFACE		
WELLDEPTH:	125		
ELEVATION:	0		
ELEVMETHOD:	Not Reported		
ACCURACYOF:	Not Reported		
HYDROLOGIC:	02050107		
LATLONGACCURACY:	ACCURATE TO +1 MINUTE		
QUAD:	BLOOMSBURG		
TYPEOFSITE:	WELL		
DATECREATE:	Not Reported	DATEUPDATE:	Not Reported
DATARELIABILITY:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
SOURCE DEPTH DATA:	DRILLER'S RECORD		
MUNICIPALITY:	SOUTH CENTRE TWP.		
LATITUDEDD:	41.00611		
LONGITUDEED:	-76.41167		
DEPTHTOBED:	54		
DATEDRILLE:	Not Reported		
PAGWIS ID:	88694		

Construction Information:

Construction Date:	06/19/1984 00:00:00
Driller:	1564
Source Cons Data:	DRILLER'S RECORD
Method Cons:	Not Reported
Finish:	OPEN HOLE

Casing Information:

Top Of Casing:	0	Casing Wall Thickness:	Not Reported
Bottom Of Casing:	60	Casing Diameter:	6
Casing:	Not Reported		

Geohydrologic Information:

A A P G:	344MNNG		
Lithology:	SH		
Contributing Unit:	PRIMARY		
Top Of Interval:	Not Reported	Bottom Of Interval:	Not Reported

Water Use Information:

Site Use:	WITHDRAWAL
Water Use:	DOMESTIC

Owner Information:

Owner:	WOLFINGER HOMES
Date Ownership:	Not Reported

Remarks Information:

Remark:	CASING MATERIAL=STEEL
Remark Date:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

WELLID: 405955076243601 LOCALWELLN: CO 191
 COUNTY: COLUMBIA
 AAPG: 341TMRK
 TOPOGRAPHY: HILLSIDE
 WELLDEPTH: 395
 ELEVATION: 630
 ELEVMETHOD: INTERPOLATED FROM TOPOGRAPHIC MAP
 ACCURACYOF: 10
 HYDROLOGIC: 02050107
 LATLONGACCURACY: ACCURATE TO +1 SECOND
 QUAD: CATAWISSA
 TYPEOFSITE: WELL
 DATECREATE: Not Reported DATEUPDATE: Not Reported
 DATARELIABILITY: FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)
 SOURCE DEPTH DATA: OTHER/UNKNOWN/UNSPECIFIED
 MUNICIPALITY: MAIN TWP.
 LATITUDEDD: 40.99861
 LONGITUDEDD: -76.41
 DEPTHTOBED: 0
 DATEDRILLE: Not Reported
 PAGWIS ID: 14046

Agency Use Section:

Agency Use of Site: OBSERVATION
 Agency Use Date: Not Reported

Construction Information:

Construction Date: 01/04/1967 00:00:00
 Driller: 0160
 Source Cons Data: DRILLER'S RECORD
 Method Cons: OTHER/UNKNOWN
 Finish: OPEN HOLE

Casing Information:

Top Of Casing: 0 Casing Wall Thickness: Not Reported
 Bottom Of Casing: 81 Casing Diameter: 6
 Casing: UNKNOWN

Hole Information:

Top Of Hole: 0
 Bottom Of Hole: 395 Hole Diameter: 6

Geohydrologic Information:

A A P G: 341TMRK
 Lithology: SANDSTONE AND SHALE
 Contributing Unit: PRIMARY
 Top Of Interval: Not Reported Bottom Of Interval: Not Reported

Water Use Information:

Site Use: WITHDRAWAL
 Water Use: PUBLIC SUPPLY

Owner Information:

Owner: WONDERVIEW WATER CO.
 Date Ownership: 01/04/1967 00:00:00

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

L27
South
1/2 - 1 Mile
Higher

PA WELLS PA1000000131444

WELLID:	Not Reported	LOCALWELLN:	X 0060
COUNTY:	COLUMBIA		
AAPG:	341CSKL		
TOPOGRAPHY:	HILLSIDE		
WELLDEPTH:	130		
ELEVATION:	0		
ELEVMETHOD:	Not Reported		
ACCURACYOF:	Not Reported		
HYDROLOGIC:	Not Reported		
LATLONGACCURACY:	ACCURATE TO +1 MINUTE		
QUAD:	CATAWISSA		
TYPEOFSITE:	WELL		
DATECREATE:	Not Reported	DATEUPDATE:	Not Reported
DATARELIABILITY:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
SOURCE DEPTH DATA:	DRILLER'S RECORD		
MUNICIPALITY:	CATAWISSA TWP.		
LATITUDEDD:	40.98722		
LONGITUDEDD:	-76.43028		
DEPTHTOBED:	18		
DATEDRILLE:	Not Reported		
PAGWIS ID:	88369		

Construction Information:

Construction Date:	01/01/1967 00:00:00
Driller:	0160
Source Cons Data:	DRILLER'S RECORD
Method Cons:	Not Reported
Finish:	OPEN HOLE

Casing Information:

Top Of Casing:	0	Casing Wall Thickness:	Not Reported
Bottom Of Casing:	Not Reported	Casing Diameter:	6
Casing:	Not Reported		

Geohydrologic Information:

A A P G:	341CSKL		
Lithology:	LS		
Contributing Unit:	PRIMARY		
Top Of Interval:	Not Reported	Bottom Of Interval:	Not Reported

Water Use Information:

Site Use:	WITHDRAWAL
Water Use:	DOMESTIC

Owner Information:

Owner:	HOWER A
Date Ownership:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

L28
South
1/2 - 1 Mile
Higher

PA WELLS SPAW0043804

Well ID:	X 0060	County:	COLUMBIA
Owner's Name:	HOWER A	Longitude:	762549
Latitude:	405914	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Quadrangle:	CATAWISSA	Topographic Setting:	HILLSIDE
Hydrologic Unit:	Not Reported	Site Usage:	WITHDRAWAL
Water Usage:	DOMESTIC	Finish:	OPEN HOLE
Well Depth:	130	Casing1 Diameter(inches):	6
Casing 1:	Not Reported	Casing2 Diameter(inches):	Not Reported
Casing2:	Not Reported	Date Drilled:	00-00-67
Grouted:	Not Reported	Production WL:	Not Reported
Static Water Level:	30	Yield Measurement Method:	1
Yield (gpm):	6	Test Time:	1
Drawdown:	100	Driller:	0160
Bedrock:	18	Water Bearing Zone 2:	80
Water Bearing Zone 1:	50	Lithology:	LIMESTONE
Water Bearing Zone 3:	110	Remark:	1134
Municipality:	CATAWISSA		
Aquifer:	CATSKILL FORMATION		

M29
NE
1/2 - 1 Mile
Higher

PA WELLS PA1000000134220

WELLID:	410043076245801	LOCALWELLN:	CO 330
COUNTY:	COLUMBIA		
AAPG:	351TNLY		
TOPOGRAPHY:	TERRACE		
WELLDEPTH:	0		
ELEVATION:	490		
ELEVMETHOD:	INTERPOLATED FROM TOPOGRAPHIC MAP		
ACCURACYOF:	10		
HYDROLOGIC:	02050107		
LATLONGACCURACY:	ACCURATE TO +1 SECOND		
QUAD:	BLOOMSBURG		
TYPEOFSITE:	WELL		
DATECREATE:	Not Reported	DATEUPDATE:	Not Reported
DATARELIABILITY:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
SOURCE DEPTH DATA:	OTHER/UNKNOWN/UNSPECIFIED		
MUNICIPALITY:	SCOTT TWP.		
LATITUDEDD:	41.01194		
LONGITUDEDD:	-76.41611		
DEPTHTOBED:	0		
DATEDRILLE:	Not Reported		
PAGWIS ID:	14064		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency Use Section:

Agency Use of Site: OBSERVATION
 Agency Use Date: Not Reported

Construction Information:

Construction Date: Not Reported
 Driller: 1
 Source Cons Data: OTHER/UNKNOWN/UNSPECIFIED
 Method Cons: OTHER/UNKNOWN
 Finish: OPEN HOLE

Geohydrologic Information:

A A P G: 351TNLY
 Lithology: LIMESTONE
 Contributing Unit: PRIMARY
 Top Of Interval: Not Reported Bottom Of Interval: Not Reported

Water Use Information:

Site Use: WITHDRAWAL
 Water Use: DOMESTIC

Owner Information:

Owner: LIBERTY CHEVROLET
 Date Ownership: 01/01/1980 00:00:00

**M30
 NE
 1/2 - 1 Mile
 Higher**

FED USGS USGS2202448

Agency cd:	USGS	Site no:	410043076245801
Site name:	CO 330		
Latitude:	410043		
Longitude:	0762458	Dec lat:	41.01203095
Dec lon:	-76.415777	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	42
State:	42	County:	037
Country:	US	Land net:	Not Reported
Location map:	BLOOMSBURG	Map scale:	24000
Altitude:	490.00	Altitude method:	M
Altitude accuracy:	10	Altitude datum:	NGVD29
Hydrologic:	Upper SusquehannaLackawanna. Pennsylvania. Area = 1760 sq.mi.		
Topographic:	Alluvial or marine terrace		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	TONOLOWAY LIMESTONE		
Well depth:	Not Reported	Hole depth:	Not Reported
Source of depth data:	Not Reported	Project number:	444206800
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1980-12-05	Ground water data end date:	1981-04-30
Ground water data count:	2		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1981-04-30	9.56		1980-12-05	11.13	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: PA Radon

Test Result Statistics

Zip	Total Sites	Min pCi/L	Max pCi/L	Avg pCi/L
17815	381	.2	311.7	13.3

EPA Region 3 Statistical Summary Readings for Zip Code: 17815

Number of sites tested: 826.

Maximum Radon Level: 362.5 pCi/L.

Minimum Radon Level: 0.1 pCi/L.

pCi/L <4	pCi/L 4-10	pCi/L 10-20	pCi/L 20-50	pCi/L 50-100	pCi/L >100
385 (46.61%)	179 (21.67%)	90 (10.90%)	93 (11.26%)	41 (4.96%)	38 (4.60%)

Federal EPA Radon Zone for COLUMBIA County: 1

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Pennsylvania Public Water Supply Wells

Source: Pennsylvania Department of Environmental Resources Bureau of Water Supply

Telephone: 717-787-5017

Pennsylvania Groundwater Information System

Source: Department of Conservation and Natural Resources

Telephone: 717-783-7258

OTHER STATE DATABASE INFORMATION

RADON

State Database: PA Radon

Source: Department of Environmental Protection

Telephone: 717-783-3594

Radon Test Results Statistics by Zip Code

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

EPA Region 3 Statistical Summary Readings

Source: Region 3 EPA

Telephone: 215-814-2082

Radon readings for Delaware, D.C., Maryland, Pennsylvania, Virginia and West Virginia.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

STREET AND ADDRESS INFORMATION

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EDR® Environmental
Data Resources Inc

The EDR-City Directory
Abstract

**Bloomsburg USARC, PA
1469 OLD BERWICK RD
BLOOMSBURG, PA 17815**

Inquiry Number: 1718793.18

Thursday, July 20, 2006

**The Standard in
Environmental Risk
Management Information**

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR City Directory Abstract

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening report designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Thank you for your business.

Please contact EDR at 1-800-352-0050
with any questions or comments.

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SUMMARY

- ***City Directories:***

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1980 through 2005. (These years are not necessarily inclusive.) A summary of the information obtained is provided in the text of this report.

Date EDR Searched Historical Sources: July 20, 2006

Target Property:

1469 OLD BERWICK RD
BLOOMSBURG, PA 17815

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	Address Not Listed in Research Source	Polk's City Directory
1985	Address Not Listed in Research Source	Polk's City Directory
1990	Address Not Listed in Research Source	Polk's City Directory
1995	US Army Department	Polk's City Directory
2000	US Army Department	Polk's City Directory
2005	US Army Department	Polk's City Directory

Adjoining Properties

SURROUNDING

Multiple Addresses
BLOOMSBURG, PA 17815

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	<u>**Old Berwick Road**</u>	Polk's City Directory
	Residence (1429)	Polk's City Directory
	Residence (1434)	Polk's City Directory
	Residence (1440)	Polk's City Directory
	Residence (1529)	Polk's City Directory
	Residence (1537)	Polk's City Directory
	Residence (1545)	Polk's City Directory
1985	<u>**Old Berwick Road**</u>	Polk's City Directory
	Residence (1429)	Polk's City Directory
	Residence (1434)	Polk's City Directory

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1985	Residence (1440)	Polk's City Directory
	Residence (1529)	Polk's City Directory
	Residence (1537)	Polk's City Directory
	Residence (1545)	Polk's City Directory
1990	<u>**Old Berwick Road**</u>	Polk's City Directory
	Residence (1429)	Polk's City Directory
	Residence (1434)	Polk's City Directory
	Residence (1440)	Polk's City Directory
	Residence (1529)	Polk's City Directory
	Residence (1537)	Polk's City Directory
	Residence (1545)	Polk's City Directory
1995	<u>**Old Berwick Road**</u>	Polk's City Directory
	Residence (1429)	Polk's City Directory
	Residence (1434)	Polk's City Directory
	Residence (1440)	Polk's City Directory
	Residence (1529)	Polk's City Directory
	Residence (1537)	Polk's City Directory
	Residence (1545)	Polk's City Directory
2000	<u>**Old Berwick Road**</u>	Polk's City Directory
	Residence (1429)	Polk's City Directory
	Residence (1434)	Polk's City Directory
	Residence (1440)	Polk's City Directory

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2000	Residence (1529)	Polk's City Directory
	Residence (1537)	Polk's City Directory
	Residence (1545)	Polk's City Directory
2005	<u>**Old Berwick Road**</u>	Polk's City Directory
	Residence (1429)	Polk's City Directory
	Residence (1434)	Polk's City Directory
	Residence (1440)	Polk's City Directory
	Residence (1529)	Polk's City Directory
	Residence (1537)	Polk's City Directory
	Residence (1545)	Polk's City Directory