FINAL

ENVIRONMENTAL CONDITION OF PROPERTY REPORT

SSG ROY CLIFTON SCOUTEN
U.S. ARMY RESERVE CENTER (OH037)
MANSFIELD, OH 44902

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

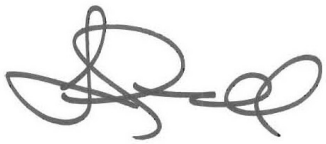
FEBRUARY 2007

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.

DAVID L. MOORE **DATE**
Chief, Environmental Division
88th Regional Readiness Command

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



02/08/07

LENARD GUNNELL, P.G. **DATE**
Project Geologist
U.S. Army Corps of Engineers

Executive Summary

CH2M HILL, under contract to the U.S. Army Corps of Engineers, Louisville District, prepared this Environmental Condition of Property (ECP) Report for the SSG Roy Clifton Scouten U.S. Army Reserve (USAR) Center (Facility ID OH037), hereafter referred to as the "Property" or "USAR Center." The Property is located in 271 Hedges Street, Mansfield, Richland County, Ohio, 44902, and encompasses approximately 4 acres.

This ECP Report was conducted in conformance with the Department of Defense's Base Redevelopment and Realignment Manual (BRRM), DoD 4165.77-M, Army Regulation 200-1, and the American Society for Testing and Materials (ASTM) Designation D6008-96 (2005), *Standard Practice for Conducting Environmental Baseline Surveys*.

This ECP Report details the history of the Property, including the USAR and any prior tenant uses of the Property and the resulting environmental condition of the Property.

The USAR Center is on approximately 4 acres of land with two permanent structures, a 13,612-square-foot main building and a 2,500-square-foot Organizational Maintenance Shop (OMS). The USAR soldiers under the 88th Regional Readiness Command (RRC) were the former occupants of the USAR Center. The property has been used as a USAR Center since the U.S. Government acquired the property, and the Property is currently unoccupied.

Based on a review of aerial photographs and U.S. Geological Survey topographic maps dating back to 1915, the site developed over time. The 1915 topographic map shows the City of Mansfield and the Property were located on the northern edge of Mansfield in a developed area. The aerial photographs, dated 1966, 1979, 1987, and 1998, show that the Property has been developed since the mid-60s and that the area has remained relatively unchanged since then.

Areas of potential environmental concern were reviewed and CH2M HILL found no significant findings relating to the environmental condition of the Property.

In accordance with Department of Defense policy defining the classifications (See Sherri Goodman Memorandum dated 21 October 1996), the Property has been classified as Type 1. This classification does not include categorizing the property based on *de minimis* conditions that generally do not present material risk of harm to 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

ACM	asbestos-containing material
AMSA	Area Maintenance Support Activity
AR	Army Regulation
AST	aboveground storage tank
ASTM	American Society for Testing and Materials
BRRM	Base Redevelopment and Realignment Manual
BRAC	Base Realignment and Closure
BUSTR	Bureau of Underground Storage Tank Regulations
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Act Information System
CFR	Code of Federal Regulations
CORRACTS	Resource Conservation and Recovery Act corrective action site
DoD	Department of Defense
DRMO	Defense Reutilization and Marketing Office
ECAS	environmental compliance and assessment study
ECP	Environmental Condition of Property
EDR	Environmental Data Resources, Inc.
EPA	Environmental Protection Agency
FEMA	Federal Emergency Management Agency
kg	kilogram
LBP	lead-based paint
LUST	leaking underground storage tank
MEC	munitions and explosives of concern
MEP	military equipment parking
NFA	no further action

NPL	National Priorities List
NRHP	National Register of Historic Places
OMS	Organizational Maintenance Shop
OWS	oil/water separator
PCB	polychlorinated biphenyl
pCi/L	picoCuries per liter
POL	petroleum, oil, and lubricant
POV	privately owned vehicle
ppm	parts per million
RCRA	Resource Conservation and Recovery Act
RCRIS	Resource Conservation and Recovery Act Information System
RRC	Regional Readiness Command
TSD	treatment, storage, or disposal
USACE	United States Army Corps of Engineers
USAR	United States Army Reserve
USC	United States Code
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
UST	underground storage tank
VAP	Voluntary Action Program
VWR	vehicle wash rack
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 SSG Roy Clifton Scouten U.S. Army Reserve (USAR) Center (OH037). The facility is located at 271 Hedges Street, Richland County, Mansfield, Ohio, and is hereafter referred to as the Property or USAR Center. CH2M HILL 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 July 31, 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 gathered information from 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. As such, CH2M HILL 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

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 (DoD) policy, set forth in the Base Redevelopment and Realignment Manual (BRRM) (DoD 4165.66-M, March 1, 2006) Section C8.3, 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 Base Realignment and Closure (BRAC) property.
- Assist federal agencies during the property screening process.
- Provide information for prospective buyers.
- Assist prospective new owners in meeting the requirements under U.S. Environmental Protection Agency's (USEPA) "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 1 year or more—specifically, quantities exceeding 1,000 kilograms (kg) or the reportable quantity, whichever is greater, of the substances specified in 40 CFR 302.4 or 1 kg 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 (LBP), radon, and other substances potentially hazardous to human health.

This ECP Report used the American Society for Testing and materials (ASTM) Designation D6008-96 (2005), *Standard Practice for Conducting Environmental Baseline Surveys*, the BRRM, CERCLA § 120, and AR 200-1.

1.2 Scope of Services

This ECP report covers the USAR Center located on 4 acres of land in a commercial and residential district of Mansfield, Ohio. The facility is located at 271 Hedges Street, Mansfield, Ohio. The Property is bounded to the west by Hedges Street and residential area. To the south is the Richland New Hope Center that provides social services and houses a vehicle maintenance facility. The New Hope Child Care Center is located to the north, and a public swimming pool is located to the east.

All site maps, figures, and aerial photographs referenced herein are provided in Appendix A, while Appendix B contains photographs taken during the July 31, 2006, site reconnaissance. Appendix C contains the Property warranty deeds and 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 DoD policy defining the classifications (see Sherri Goodman Memorandum dated 21 October 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 USAR Center is located in Richland County, in the city of Mansfield, Ohio, at 271 Hedges Street. A site location map is available as Figure 1 in Appendix A. The 4-acre parcel is bounded to the west by Hedges Street and residential area. To the south is the Richland New Hope Center that provides social services and houses a vehicle maintenance facility. The New Hope Child Care Center is located to the north, and a public swimming pool is located to the east.

2.2 Asset Information

Facility Name and Address:	SSG Roy Clifton Scouten U.S. Army Reserve Center 271 Hedges Street Mansfield, Ohio 44902
Property Owner:	U.S. Government
Date of Ownership:	September 24, 1956
Current Occupants:	Facility was vacated as of September 15, 2006
Zoning:	Commercial/Residential
County, State:	Richland, Ohio
USGS Quadrangle(s):	Mansfield North, Ohio
Section/Township/Range:	Section 9, Township 12 North, Range 22 West
Latitude/longitude:	40°45'3.6"N; 82°39'35.6"W
Legal Description:	Being that parcel or tract of land, known as Tract A-100, situated and lying in the Northwest quarter of Section 27, in the City of Mansfield, Richland County, State of Ohio.

2.3 Physical Description

The USAR Center is located on a 4-acre parcel in Mansfield, Ohio, and contains two permanent structures and two parking lots. A site map is included as Figure 2 in Appendix A. Construction of both the main building and the Organizational Maintenance Shop (OMS) were completed in 1958. 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 also are contained within the Property. Chain-link security fencing encloses the MEP area and OMS building.

Approximately 75 percent of the Property is covered by impervious surface features such as asphalt parking areas, driveways, and concrete walkways. The remaining land is grassed with a sparse population of trees scattered over the Property.

The USAR Center functions as an administrative and drill facility for USAR (Figure 3, Appendix A). It is a multiple-level irregular-shaped building consisting of a one-story administration section and a two-story drill hall connected by a one-story, L-shaped enclosed corridor. A set of double doors are located on the west side of the building. Additional entrances are on the south and east walls. A metal overhead retractable bay door is located on the east wall. A flat roof covers the structure.

The OMS functions as a vehicle maintenance facility for the USAR Center (Figure 4, Appendix A). It is a one-story, rectangular building that rests on a concrete foundation with concrete block walls and a brick veneer. Two metal overhead retractable bay doors are located on north side of the building. Additional entrances include metal pedestrian doors with concrete steps located on the east and west walls. A flat roof covers the structure.

2.4 Site Hydrology and Geology

Mansfield is located in central Richland County in north-central Ohio. The eastern, central, and southwestern parts of Richland County are within the Kilbuck-Glaciated Pittsburgh Plateau. Highly variable topography and relief are found in Richland County. The southern, central, and eastern portions of the county feature steep, bedrock-controlled ridges separated by broad, flat stream valleys. Relief becomes steeper toward the thinly glaciated southeast corner. Gently rolling ground moraine and hummocky end moraines characterize the northern and western portions of the county. Maps provided in Angle (2003) show the location of the USAR Center as falling within a buried valley geologic setting, where glacial drift consisting of clay, sand, and gravel fills in a valley eroded into underlying bedrock by a prehistoric stream system.

2.4.1 Surface Water Characteristics

Figure 7 in Appendix A provides the 1965-1972 U.S. Geological Survey (USGS) 7.5-minute topographic map, Mansfield North, that includes the Property. As shown on the EDR radius map with GeoCheck (report dated July 12, 2006), the Property is situated at an elevation of approximately 1,286 feet above mean sea level and is relatively flat. Surface water from the site infiltrates into the underlying soil. Surface water that does not infiltrate into the underlying soil generally moves via sheet flow toward the southeast portion of the Property. A French drain runs along the south side of the MEP area. Surface water eventually flows into the City of Mansfield stormwater system. As indicated in the 2005 natural resource survey, no wetlands occur on the Property.

2.4.2 Hydrogeological Characteristics

Richland County lies within the Glaciated Central hydrogeologic setting. A complex network of buried valley systems crosses the county. Valleys containing streams that were flowing south prior to the advance of the ice typically contain fairly coarse, thick sand and gravel outwash deposits that can have maximum yields exceeding 500 gallons per minute. Maps provided by Angle (2003) show the location of the USAR Center within the

hydrogeologic setting coded 7DD122. This code indicates that the site overlies a buried valley aquifer consisting of sand and gravel. Depth to groundwater in the buried valley aquifer beneath the site exceeds 100 feet. Due to the relatively low permeability of the sand, gravel, silt, and clay in the unsaturated zone, the area in which the Property lies was mapped as having a relatively low potential for allowing groundwater contamination to occur (maps provided in Angle [2003]). Groundwater is assumed to flow east-northeast toward Rocky Fork Creek, which is located approximately 0.75 mile east-northeast of the Property.

2.5 Site Utilities

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

Sanitary Sewer System—The City of Mansfield 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—Columbia Gas of Ohio provides natural gas service to the Property, and Ohio Edison provides electric service to the Property.

2.6 Water Supply Wells and Septic Systems

Based on a review of available historical site and agency records and interviews with site personnel, there are no water supply wells located currently or historically at the Property. Potable water is supplied by the City of Mansfield. The City of Mansfield has supplied potable water to the facility since it was constructed.

3 Site History

3.1 History of Ownership

A historical chain of title report, dated September 11, 2006, for the Property is included in Appendix C. The title indicated that the U.S. Government purchased the Property in September 1956.

According to a city directory provided by EDR dated July 17, 2006, the address of the USAR Center was first listed in the research source, Burch Directory Co., in 1986 and in the Polk City Directory in 1996. Subsequent city directory searches do not list the Property. A copy of the city directory is included in Appendix E.

3.2 Past Uses and Operations

The USAR Center is an administrative and educational facility (Photograph 1, Appendix B), with limited maintenance of military vehicles occurring in the OMS building. Reservists historically used the Property for drill activities on various weekends throughout the year. An outdoor hazardous material storage shed is located north of the OMS building within the MEP area and is used to store potentially hazardous substances and petroleum, oil, and lubricant (POL) products (Photograph 2, Appendix B). The OMS building was used to perform limited maintenance activities on military equipment (Photograph 3, Appendix B). Activities inside the OMS building were limited to vehicle maintenance such as checking vehicle motor oil and antifreeze levels and changing batteries (Photograph 4, Appendix B). Any equipment requiring heavier maintenance activities was sent to an Area Maintenance Support Activity (AMSA) shop located at one of the other USAR centers. Equipment requiring major overhaul also was sent offsite. Site records indicate the main building and OMS were constructed and have been in operation since 1956.

Topographic maps (dated 1915, 1960, 1972, 1974, and 1982) and historical aerial photographs (dated 1964, 1966, 1979, and 1998) were the primary source of information on the past use and operations at the Property. Figures 5 through 13 in Appendix A provide USGS topographic maps and aerial views of the Property and surrounding areas.

The 1915 USGS topographic map (Figure 9, Appendix A) shows the city of Mansfield, which was founded in 1808. The USGS topographic maps (Figures 5 through 8, Appendix A) show that the facility is located on the northern edge of Mansfield in a slightly developed area, and little change is noted over time (dates ranging from 1960 to 1982). During the site visit on July 31, 2006, new growth was noted in the area that is not noted on the maps.

The 1966, 1979, 1987, and 1998 aerial photographs are provided as Figures 10 through 13 in Appendix A. The 1966 photograph is of poor quality and most of the eastern part of the site is outside the area covered by the photograph, but the USAR Center is visible along with part of the OMS. The property to the north and west has been developed and the area to the south is not visible due to the quality and coverage of the photograph. The southern portion

of the site is not visible in the 1979 photograph, but the buildings, POL, and MEP are visible. The properties to the north and west appear similar to their appearance in 1966. The 1987 photograph shows the site from a high altitude and the areas around the property are shown to be developed. In the 1998 photograph the southeast portion of the site is not visible. The site and the surrounding properties look relatively unchanged from the altitude of the aerial.

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 USAR 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 main building. Vehicle maintenance products and small amounts of POL products also were stored within designated areas in the OMS building. Other potentially hazardous materials and POL products would have been stored in the outdoor hazardous material storage shed located north of the OMS building within the MEP area (Photograph 2, Appendix B).

Certain types of chemical products used and stored at the Property would have contained hazardous substances pursuant to CERCLA §101(14) (42 United States Code [USC] 9601(14)) and would have been stored on a rotational basis in amounts necessary to support the unit through direct support-level maintenance. There is, however, no indication that hazardous substances pursuant to CERCLA §101(14) (42 USC 9601(14)) were stored at the Property for 1 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 USAR personnel. According to 88th Regional Readiness Command (RRC) personnel, disposal of hazardous materials/hazardous waste had been accomplished through the Defense Reutilization and Marketing Office (DRMO) or an authorized vendor such as Safety-Kleen. No stained soil or stressed vegetation was observed during the July 31, 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 on a review of available site records, a search of federal and state environmental databases, and interviews with USAR personnel, it does not appear that any bulk petroleum underground storage tanks (USTs) or aboveground storage tanks (ASTs) are currently

located at this facility, nor was there any evidence of USTs or ASTs observed during the site reconnaissance. A UST associated with operations at an oil/water separator (OWS) was formerly located at the site, but it was removed as described in Section 3.5.1.

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 1999 UST Removal Report

This report by Harza Environmental Services, Inc. (Harza, 1999) documents the removal of one UST at the Property in December 1998. The report states in the introduction that the UST is 550-gallon tank; however, forms completed for the closure that were submitted to the Bureau of Underground Storage Tank Regulations (BUSTR) state that the tank is 500 gallons. Documentation includes a letter from BUSTR dated June 15, 1999, requiring no further action (NFA) at the Property related to the UST removal (BUSTR, 1999).

3.5.2 Cultural Resources Report

The Fort McCoy Archaeological Laboratory prepared a Section 110 cultural resources survey report for the 88th RRC in December 1998 through December 1999. The purpose of the survey and subsequent report was to inventory all properties controlled or leased by the 88th RRC in the state of Ohio. Historical information, setting and landscape, cultural resources, security, architectural information, and structure descriptions are included for each property. Each site also was assessed for its eligibility to the National Register of Historic Places (NRHP). No facilities at the USAR Center were eligible for listing on the NRHP.

3.5.3 1996 ECAS Report

An environmental compliance and assessment study (ECAS) report was prepared for the facility in 1996, and four management findings were identified in the areas of hazardous substance management, tanks, and radon. These findings have no significant impact on the facility.

3.5.4 2000 ECAS Report

An ECAS report was prepared for the facility in 2000, and four regulatory findings were found with the air and hazardous waste programs. Although these findings were regulatory, they should have no significant impact on the facility.

3.5.5 2005 Environmental Survey Report: Asbestos, PCB, Lead-based Paint, and Radon Survey

ITI of South Florida, Inc. prepared an environmental survey report in June 2005 for the USAR Center. Only the main building and OMS building were included in the surveys. Potential types, quantities, locations, and conditions of asbestos, polychlorinated biphenyls (PCBs), LBP, and radon were examined in the report. The survey confirmed LBP was found

to be on the interior walls of the boiler room and in the men's bathroom in the main building. In the OMS, LBP was found on the grey metal doors and on the interior overhead door components.

Asbestos-containing floor tiles and mastic in the main building were found to contain asbestos, along with a water storage tank in the mechanical room, thermal pipe insulation, and pipe fittings throughout the building; exhaust flue mud in the mechanical room; transite wall board in the men's bathroom; and joint tape/mud compound throughout the building. The folding divider between Classrooms 1 and 2 was suspected to contain asbestos, but was not confirmed. No asbestos-containing material (ACM) was found in the OMS building. Roofing materials, fire doors, and electrical wiring in both facilities were suspected to contain asbestos, but it was not confirmed.

During the PCB survey, light ballasts were observed in the OMS building that were labeled as "No PCBs," and none were noted in the main building. Three pole-mounted transformers were noted outside the facilities that did not have labeling indicating the absence or presence of PCBs. It is suspected, however, that PCBs are present in the transformers, but it was not confirmed.

Throughout the facility, all measured radon levels in the USAR Center were above USEPA's recommended action level of 4 picoCuries per liter (pCi/L) of air.

3.5.6 2005 Natural Resources Survey

In 2005, a natural resources survey was conducted on the Property that included an evaluation of land use, geologic resources, water resources, biological resources, and other sensitive resources. Land use was described as 56 percent improved areas and 44 percent maintained grass areas with a flat topography. No surface water resources were identified on the Property; however, an unnamed creek was identified approximately 100 feet south of the Property. No wetlands were identified on the Property; however, a wetland was identified 980 feet southeast of the Property. Rare species were not identified on the Property. The onsite potential for rare species habitat is considered low due to the lack of natural areas.

3.5.7 2004 Oil/Water Separator Closure Report

Jones Technology, Inc. prepared an OWS closure report for the Property, dated May 2004, documenting the removal of an OWS, vehicle wash rack, grit trap, and an elevated grease rack at the Property in April 2002. The structures were in good condition, and no contamination was encountered during the closures. Jones Technology, Inc. recommended NFA for this site in its report. This recommendation was based on visual observations, head space photoionization detector soil analyses, and laboratory soil analyses for total petroleum hydrocarbons, volatile organic compounds, and metals.

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 also were reviewed for conditions or activities that may have had an environmental impact on the Property.

4.1 Land Uses

The Property is bounded to the west by Hedges Street and surrounding residential area. To the south and southeast is the Richland New Hope Center that provides social services and houses a vehicle maintenance facility. The New Hope Child Care Center is located to the north, and a public swimming pool is located to the east. Table 1 summarizes the current adjacent properties and zoning.

TABLE 1
Adjacent Properties
SSG Roy Clifton Scouten USAR Center, Mansfield, Ohio

Name/Type of Property	Address	Distance and Direction from Property	Zoning
Richland New Hope Center	314 Cleveland Avenue	812 feet south and southeast	Commercial
New Hope Child Care Center	Hedges Street	Unknown distance to the north	Unknown
Residential Properties	Hedges Street, Foster Street, Arch Street, and Mason Street	Unknown distances north, south, east, and west	Unknown
Public Swimming Pool	Unknown	Unknown distance north	Unknown

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.

The EDR search identified six leaking underground storage tanks (LUSTs) on the Property that were declared as NFA sites; however, it is likely that these six LUSTs are not associated with the Property and instead are located on a nearby property to the southeast and were assigned to this property in error in one of the databases searched. A separate search of the BUSTR database for the Property was conducted and reveals only one closed 500-gallon UST on the Property (Appendix D).

The adjacent property formerly containing six USTs is on an equal elevation with the USAR Center, and because all the tanks are closed with an NFA status, these USTs are assumed to have had no significant impact on the Property.

Water well databases at the federal and state level were reviewed to identify any water supply source near the Property. The state database identified one water supply source located between 0.25 and 0.5 mile from the Property. The well is located west-southwest of the Property and is privately owned.

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 12, 2006. EDR provides a regulatory database summary that consolidates standard federal, state, local, and tribal environmental record sources based on ASTM D6008-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 Sites within 1 Mile

USEPA maintains a record of the nation's worst uncontrolled or abandoned hazardous waste sites, known as the National Priorities List (NPL). Sites on the NPL undergo long-term remedial action under CERCLA. The USAR Center is not an NPL site, nor were any such sites located within 1 mile of the Property.

5.1.2 Federal CERCLA Information Systems Sites within 0.5 Mile

The CERCLA Information System (CERCLIS) contains data on potentially hazardous waste sites that have been reported to USEPA by state, municipalities, private companies, and private persons, pursuant to Section 103 of the Act. CERCLIS contains sites that either are 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 USAR Center is not a CERCLIS site, and there are no CERCLIS sites located within 0.5 mile of the Property.

5.1.3 Resource Conservation and Recovery Act Corrective Action Sites within 1 Mile

Resource Conservation and Recovery Act (RCRA) corrective action sites (CORRACTS) represent facilities that have generated or managed hazardous wastes and require corrective action. The USAR Center is not a CORRACTS.

Two properties within 1 mile from the USAR Center were identified as CORRACTS. Moritz, Inc. and Mansfield Product Company are located in the anticipated downgradient direction from the USAR Center. Moritz is approximately 3,514 feet northeast of the Property, and

Mansfield Product Company is approximately 3,596 feet north-northeast of the Property. Both facilities are listed as medium corrective action priorities in the EDR report.

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

RCRA defines and regulates sites that generate, transport, or provide treatment, storage, or disposal (TSD) of hazardous wastes. The RCRA Information System (RCRIS) includes selective information on these sites. The USAR Center is not an 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 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 USAR Center is listed as a conditionally exempt small quantity generator. No RCRA violations are associated with the Property. No other small quantity generators are located within 0.25 mile from the USAR Center. Additionally, no large quantity generators are located within 0.25 mile of the USAR Center.

5.1.6 Federal Emergency Response Notification System List

The Federal Emergency Response Notification System List maintains information on reported releases of oil and hazardous substances. The 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 also was obtained from online database searches of the Ohio BUSTR. 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 adjacent properties within 1 mile of the USAR Center were listed by EDR as being hazardous waste sites.

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 adjacent properties within 0.5 mile of the USAR Center have a solid waste landfill, incinerator, or transfer station.

5.2.3 State-Registered Leaking UST Sites within 0.5 Mile

The USAR Center was noted in the EDR report to have six LUSTs that were declared as NFA sites. The site contact stated that there were no other USTs located on the site, and this listing directly contradicts other information for the Property. Additionally, the BUSTR database was accessed by searching for the facility by address, and the only UST listed for the site is a 500-gallon used oil tank that is closed. No active releases are listed for the site. A copy of the BUSTR database findings is included in Appendix D.

Additionally, within 0.5 mile of the USAR Center, nine LUST sites in various stages of closure were identified apart from the Property. Table 2 summarizes their information relative to the USAR Center and provides the status of their corrective action.

TABLE 2
Nearby Leaking Underground Storage Tank Sites
SSG Roy Clifton Scouten USAR Center, Mansfield, Ohio

Company/Site	Address	Distance and Direction from Property	Regulatory Status	Elevation Relative to Property
Richland New Hope Center	314 Cleveland Avenue	Approx. 812 feet southeast	NFA	Equal
Attention Center	411 S. Diamond Street	Approx. 827 feet south	Active—With Deficiencies	Equal
Mansfield Cemetery Association	389 Altamont Avenue	Approx. 1,447 feet southwest	NFA	Equal
AP 1943	128 Lexington Avenue	Approx. 2,439 feet west	NFA	27 feet higher
Former Service Station	199 S. Main Street	Approx. 1,877 feet west-northwest	NFA	9 feet lower
BP Oil No. 06544	102 S. Main Street	Approx. 2,392 feet northwest	NFA	74 feet lower
Saltzgaber Drilling Co.	57 S. Franklin Avenue	Approx. 2,399 feet north-northwest	NFA	85 feet lower
Ideal Electric Company	380 E. First Street	Approx. 2,573 feet east-northeast	NFA	115 feet lower
A. Nickles Bakery, Inc.	194 Park Avenue E.	Approx. 2,636 feet north	NFA	110 feet lower

NFA – no further action letter issued

5.2.4 State-Registered UST Sites within 0.25 Mile

Based on a review of the EDR report and the state of Ohio's UST database, no UST sites were identified within 0.25 mile of the USAR Center. The USAR Center was not listed in the state UST database. No UST sites were identified within 0.25 mile of the Property.

5.2.5 State Spills Incidents

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

5.2.6 Records of Contaminated Public Wells

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

5.2.7 Voluntary Remediation Program Sites within 0.5 Mile

The USAR Center is not listed in the Ohio Environmental Protection Agency (EPA) Voluntary Action Program (VAP) list. No sites located within 0.5 mile of the Property are listed as being in the Ohio EPA VAP.

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

The USAR Center is not registered with the state as a bulk fertilizer and pesticide storage facility. Additionally, no adjacent properties within 0.25 mile are registered as one of these 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, cannot 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. One site, CLL Technologies, Hartman Division is located within the corresponding ASTM D6008-recommended minimum search distances. An additional site, the John F. Haring site, has the possibility of being located within the corresponding ASTM D6008-recommended minimum search distances. No information on the status of these facilities was available.

5.4 Summary of Properties Evaluated to Determine Risk to the Property

To summarize Sections 5.1 through 5.3, nine separate properties, near or adjacent to the USAR Center, were evaluated as potential risk properties to the Property. These adjacent properties evaluated were identified as a result of information obtained during area reconnaissance, interviews, and regulatory database searches and are summarized in Table 3.

Based on an evaluation of available site information and details concerning the properties listed in Table 3, eight of the facilities evaluated exhibit significant environmental conditions that have the probability of adversely affecting the environmental conditions at another site.

The Attention Center, located south of the Property, has an active file with BUSTR. Groundwater flow is to the east-northeast direction. The Attention Center is located 800 feet away from the USAR Center and in a crossgradient direction from the Property. It is unlikely that a hydrocarbon release for the Attention Center will impact the Property.

TABLE 3
Nearby Potential Risk Properties
SSG Roy Clifton Scouten USAR Center, Mansfield, Ohio

Company/Site	Database	Elevation Relative to Property?	Potential Impact on the Property?
Richland New Hope Center	LUST	Equal	None [a]
Attention Center	LUST	Equal	BUSTR – Active
Mansfield Cemetery Association	LUST	Equal	None [a]
AP 1943	LUST	27 feet higher	None [a]
Former Service Station	LUST	9 feet lower	None [a]
BP Oil No. 06544	LUST	74 feet lower	None [a]
Saltzgaber Drilling Co.	LUST	85 feet lower	None [a]
Ideal Electric Company	LUST	115 feet lower	None [a]
A. Nickles Bakery, Inc.	LUST	110 feet lower	None [a]

[a] – Based on available information obtained during reconnaissance, interviews, and available regulatory information regarding the adjacent property, the adjacent property is considered as no impact to the USAR Center.
LUST – leaking underground storage tank

6 Site Investigation and Review of Hazards

Findings documented in the following subsections are based on the July 31, 2006, site reconnaissance, a review of available site records, and information obtained from USAR personnel.

6.1 USTs/ASTs

No ASTs have historically been located on the Property or are currently located on the Property. One UST associated with this facility was removed in 1998, and a closure assessment report from Harza was submitted to BUSTR in February 1999. It was determined there was no release from the 500-gallon UST (Harza, 1999). BUSTR, in a letter dated June 15, 1999, issued an NFA for the UST closure.

6.2 Inventory of Chemicals/Hazardous Substances

Records pertaining to hazardous substances 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. Hazardous materials were observed in flammable lockers in both the main building and OMS, and in a hazardous material storage shed observed in the MEP area, just north of the OMS building.

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 USAR personnel. Available records indicate that 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 are stored in the designated storage area within the janitorial closet located in the main building. Vehicle maintenance products and small amounts of POL products also were stored within designated areas in the OMS building. Other potentially hazardous materials and POL products would have been stored in the outdoor hazardous material storage shed located north of the OMS building in the MEP area.

6.3 Waste Disposal Sites

Available records and interviews did not indicate the practice of onsite waste disposal other than through managed storage and offsite disposal. No 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

Available records, interviews, and site observations did not indicate the existence or past existence of any pits, sumps, drywells, or catch basins. As discussed in Section 3.5.7, an OWS was formerly located on the Property as part of the wash rack facility. The OWS and vehicle wash rack were removed in April 2002. There was no evidence of contamination based on visual observation, and this was confirmed by laboratory analysis of soil samples collected during removal activities (Jones Technology, 2004).

6.5 Asbestos-containing Material

A site-specific ACM survey was conducted at the USAR Center as part of the *2005 Environmental Survey Report – Asbestos, PCB, Lead-based Paint, and Radon Survey* by ITI of South Florida. Asbestos-containing floor tiles and mastic in the main building were found to contain asbestos, along with a water storage tank in the mechanical room; thermal pipe insulation and pipe fittings throughout the building; exhaust flue mud in the mechanical room; transite wall board in the men's bathroom; and joint tape/mud compound throughout the building. The folding divider between Classrooms 1 and 2 was suspected to contain asbestos, but it was not confirmed. No ACM was found in the OMS building. Roofing materials, fire doors, and electrical wiring in both facilities were suspected to contain asbestos, but it was not confirmed.

6.6 PCB-containing Equipment

A site-specific PCB survey was conducted at the USAR Center as part of the *2005 Environmental Survey Report – Asbestos, PCB, Lead-based Paint, and Radon Survey* by ITI of South Florida. During the PCB survey, light ballasts were observed in the OMS building that were labeled as "No PCBs," and none was noted in the main building. Three pole-mounted transformers were noted on the Property that did not have labeling indicating the absence or presence of PCBs. Ohio Edison owns the three transformers located on the Property. Ohio Edison could not be reached to determine whether or not these transformers are PCB-free. Therefore, it is assumed these transformers contain PCBs.

6.7 Lead-based Paint

A site-specific LBP survey was conducted at the USAR Center as part of the *2005 Environmental Survey Report – Asbestos, PCB, Lead-based Paint, and Radon Survey* by ITI of South Florida. The survey confirmed LBP was found to be on the interior walls of the boiler room and in the men's bathroom in the main building. In the OMS building, LBP was found on the grey metal doors and on the interior overhead door components.

6.8 Radon

A site-specific radon survey was conducted at the USAR Center as part of the *2005 Environmental Survey Report – Asbestos, PCB, Lead-based Paint, and Radon Survey* by ITI of South Florida. Passive detection equipment was installed throughout the main building and

OMS building to determine levels of radon gas. Based on the sampling results, all sample locations exhibited radon levels above USEPA's recommended maximum allowable exposure level of 4 pCi/L.

6.9 Munitions and Explosives of Concern

Based on a review of available records, site reconnaissance, and interviews with USAR Center personnel, there is no indication of the storage, usage, or disposal of munitions and explosives of concern (MEC) at the Property.

6.10 Radioactive Materials

Based on a review of available records, site reconnaissance, and interviews with USAR Center personnel, radioactive materials were present in equipment used on the Property, including testing and calibration equipment. According to site interviews, however, there were no known radioactive releases on the Property.

7 Review of Special Resources

7.1 Land Use

The City of Mansfield has designated this Property and surrounding properties as Commercial/Industrial. The site is located in a mixed-used area that combines commercial, industrial, and residential land uses.

7.2 Coastal Zone Management

This Property is not included in the coastal zone management plan, nor is it in a coastal zone.

7.3 Wetlands

According to the 1988 U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory maps (Figure 14, Appendix A) and visual observations, no wetlands were observed on the Property or on adjacent properties. The 2005 natural resources survey also confirms that no wetlands occur on the Property.

7.4 100-year Floodplain

A review of the Federal Emergency Management Agency (FEMA) digital Flood Hazard Area map indicates that the Property is not within the 100-year floodplain. Figure 15 in Appendix A provides a map of the 100-year floodplain elevations located in the immediate vicinity of the Property.

7.5 Natural Resources

A review of the 2005 natural resources survey conducted on the Property indicated that no threatened or endangered plant or animal species, or any habitat critical to their survival, were identified on the Property. The survey further indicated that surface water resources and wetlands do not occur on the Property. Visual observations made during the site reconnaissance confirmed that it is unlikely that threatened or endangered plant or animal species, or any habitat critical to their survival would occur on the Property.

7.6 Cultural Resources

The Fort McCoy Archaeological Laboratory prepared a Section 110 cultural resources survey report for the Property for the 88th RRC in December 1998 through December 1999. The purpose of the survey and subsequent report was to inventory all properties controlled or leased by the 88th RRC in Ohio. Historical information, setting and landscape, cultural resources, security, architectural information, and structure descriptions are included for

each property. Each site also was assessed for its eligibility to the NRHP. Appendix D provides a copy of the Section 110 survey report.

7.7 Other Special Resources

Ohio has 12 river systems included as components of the State Scenic Rivers Program, totaling 21 individual stream segments. The closest of these rivers is the Mohican River. Richland County has two major drainage basins that include the Black Fork River and the Clear Fork River that feed into the Mohican River. Based on the location of the wild and scenic rivers (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. CERCLA hazardous substances were used and stored at the Property in amounts necessary to support vehicle and building maintenance activities. There is no evidence that the chemicals used or stored were released or disposed of at the Property.

USTs/ASTs. No ASTs have historically been located on the Property or are currently located on the Property. A 500-gallon UST was removed in 1999 as part of the removal of the facility wash rack and OWS system. BUSTR issued an NFA letter dated June 15, 1999, for the UST closure.

Non-UST/AST Petroleum Storage. During the site reconnaissance, petroleum storage in 55-gallon drums was observed located in a hazardous material storage shed.

PCBs. A site-specific PCB survey was conducted at the USAR Center as part of the *2005 Environmental Survey Report – Asbestos, PCB, Lead-based Paint, and Radon Survey*. During the PCB survey, light ballasts were observed in the OMS building that were labeled as "No PCBs," and none was noted in the main building. Three pole-mounted transformers were noted on the Property that did not have labeling indicating the absence or presence of PCBs. Ohio Edison owns the three transformers located on the Property. Ohio Edison could not be reached to determine whether or not these transformers are PCB-free. Therefore, it is assumed these transformers contain PCBs.

ACM. A site-specific ACM survey was conducted at the USAR Center as part of the *2005 Environmental Survey Report – Asbestos, PCB, Lead-based Paint, and Radon Survey*. Asbestos-containing floor tiles and mastic in the main building were found to contain asbestos, along with a water storage tank in the mechanical room; thermal pipe insulation and pipe fittings throughout the building; exhaust flue mud in the mechanical room; transite wall board in the men's bathroom; and joint tape/mud compound throughout the building. The folding divider between Classrooms 1 and 2 was suspected to contain asbestos, but it was not confirmed. No ACM was found in the OMS building. Roofing materials, fire doors, and electrical wiring in both facilities were suspected to contain asbestos, but it was not confirmed.

LBP. A site-specific LBP survey was conducted at the USAR Center as part of the *2005 Environmental Survey Report – Asbestos, PCB, Lead-based Paint, and Radon Survey*. The survey confirmed LBP was found to be on the interior walls of the boiler room and in the men's

bathroom in the main building. In the OMS building, LBP was found on the grey metal doors and on the interior overhead door components.

Radiological Materials. Based on a review of available records, site reconnaissance, and interviews with USAR Center personnel, radioactive materials were present in equipment used on the Property, including testing and calibration equipment. According to site interviews, however, there were no known releases of radiological materials on the Property.

Radon. A site-specific radon survey was conducted at the USAR Center as part of the *2005 Environmental Survey Report – Asbestos, PCB, Lead-based Paint, and Radon Surve*y. Passive detection equipment was installed throughout the main building and OMS building to determine levels of radon gas. Based on the sampling results, all sample locations exhibited radon levels above USEPA's recommended maximum allowable exposure level of 4 pCi/L.

MEC. Available records do not indicate any MEC currently or formerly located at this Property. No evidence of MEC was observed during the site reconnaissance.

Surrounding Properties. Potential environmental sites of concern, located within the ASTM D6008-recommended minimum search distances 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 Floodplain. According to the 1988 USFWS National Wetlands Inventory maps, the 2005 natural resources survey, and visual observations, no wetlands were observed or appear to be associated with any of the facilities at this site, or with any adjacent properties. The Property is not located within a 100-year floodplain or within a coastal zone.

Threatened and Endangered Species. A natural resources survey was completed in 2005 for the Property, and no threatened or endangered plant or animal species, or any habitat critical to their survival, were identified on the Property. Visual observations made during site reconnaissance confirmed that it is unlikely that threatened or endangered plant or animal species, or any habitat critical to their survival, would occur on the Property.

Archaeological and Historical Resources. Because the site buildings were constructed after 1947, it is not eligible for listing on the NRHP as a World War II or earlier building. Its potential Cold War era historic significance has not been evaluated

8.2 Environmental Condition of Property

Findings of this ECP report were based on reasonably available environmental information; interviews with site, 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 also were based on visual observations of the Property and adjacent properties.

In accordance with the DoD policy defining the classifications (see Sherri Goodman Memorandum dated 21 October 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 1. The Property type is based on the following major findings:

- No recognized environmental conditions were identified on the subject site.
- There is no past evidence that chemicals used or stored at the facility were improperly released or disposed of on the Property.
- No staining or stressed vegetation was noted on the Property.
- None of the adjacent properties evaluated exhibited environmental conditions that had or have the potential to adversely affect environmental conditions at the Property.

9 References

Persons Contacted

- Mr. Dave Ayers, Ohio State Environmental Manager, 88th Regional Readiness Command, 614-693-9547, July 31, 2006.

Resources Consulted

- Aerial photographs provided by Environmental Data Resources, Inc. dated 1938, 1957, 1964, 1971, 1980, and 1994.
- National Wild and Scenic Rivers, http://www.nps.gov/rivers/wildriverslist.html#ny.
- FEMA Flood Hazard Insurance Map, http://msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView.
- U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory maps.
- Federal regulatory databases
  - **NPL** National Priority List
  - **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
  - **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 regulatory databases
  - **SHWS** This state does not maintain a SHWS list. See the federal CERCLIS list and federal NPL list.
  - **TOWNGAS** DERR Towngas Database
  - **SWF/LF** Licensed Solid Waste Facilities
  - **HIST LF** Old Solid Waste Landfill
  - **ARCHIVE UST** Archived Underground Storage Tank Sites
  - **OH Spills** Emergency Response Database
  - **ENG CONTROLS** Sites with Engineering Controls
  - **INST CONTROL** Sites with Institutional Engineering Controls
  - **VCP** Voluntary Action Program Sites
  - **DRYCLEANERS** Drycleaner Facility Listing
  - **BROWNFIELDS** Ohio Brownfield Inventory
  - **CDL** Clandestine Drug Lab Locations
  - **NPDES** NPDES General Permit List
  - **USD** Urban Setting Designation Sites
  - **HIST INST CONTROLS** Institutional Controls Database
  - **HIST ENG CONTROLS** Operation & Maintenance Agreements Database
  - **HIST USD** Urban Setting Designations Database

Works Cited

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Army, Department of. 1996. Environmental Compliance Assessment Report.

Army, Department of. 2000 Environmental Compliance Assessment Report.

Bureau of Underground Storage Tank Regulations (BUSTR). 1999. No Further Action for the Underground Storage Tank Closure. June 15.

Fort McCoy Archaeological Laboratory. 2000. Section 110 Cultural Resources Survey Report. Prepared for the 88th Regional Readiness Command, Ohio, December 1998 through December 1999.

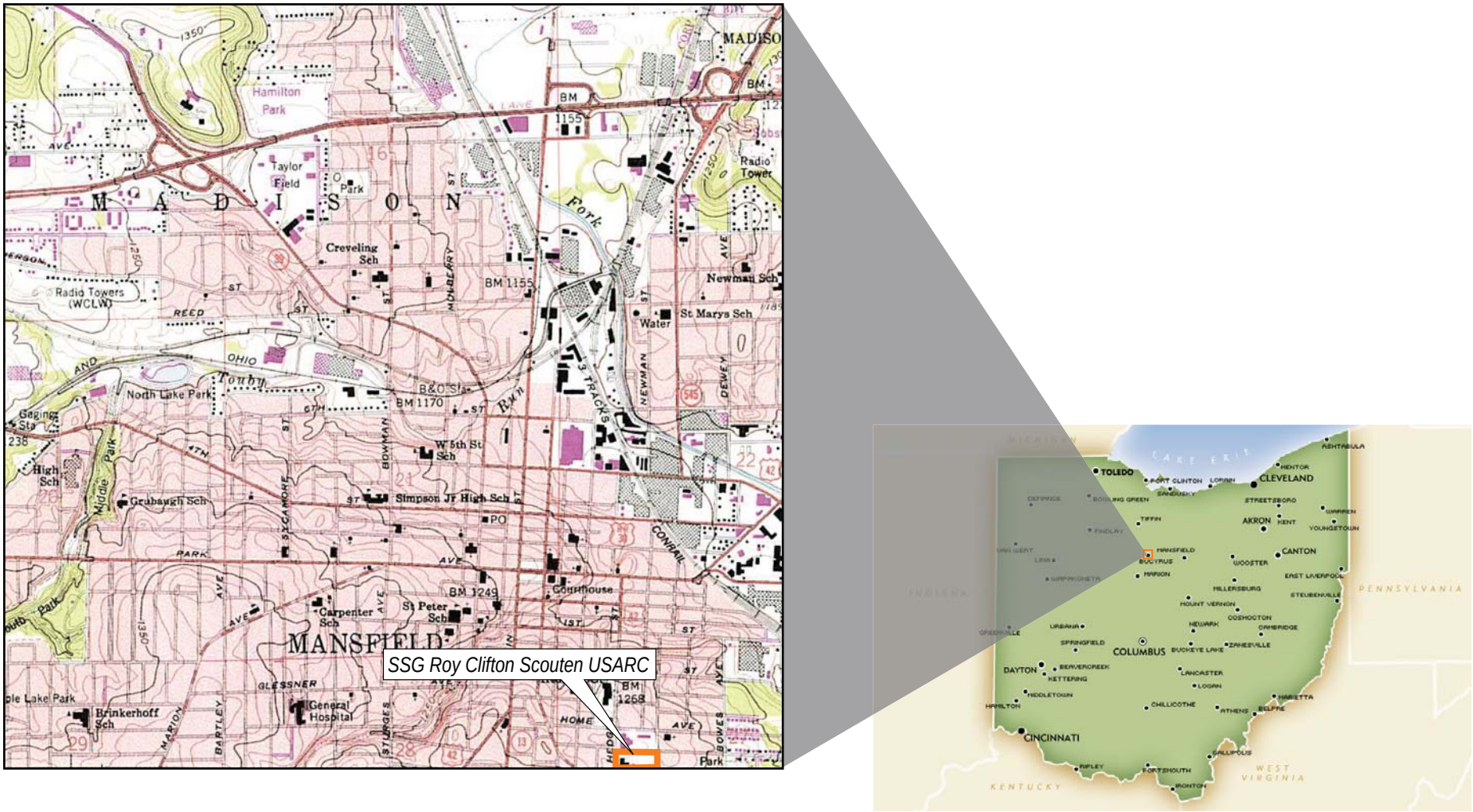
Goodman, Sherri. 1996. Memorandum. October.

Harza Environmental Services, Inc. (Harza). 1999. Underground Storage Closure Report.

ITI of South Florida, Inc. 2005. Environmental Survey Report. June.

Jones Technology, Inc. 2004. OWS Evaluation Report. May.

Appendix A
Figures

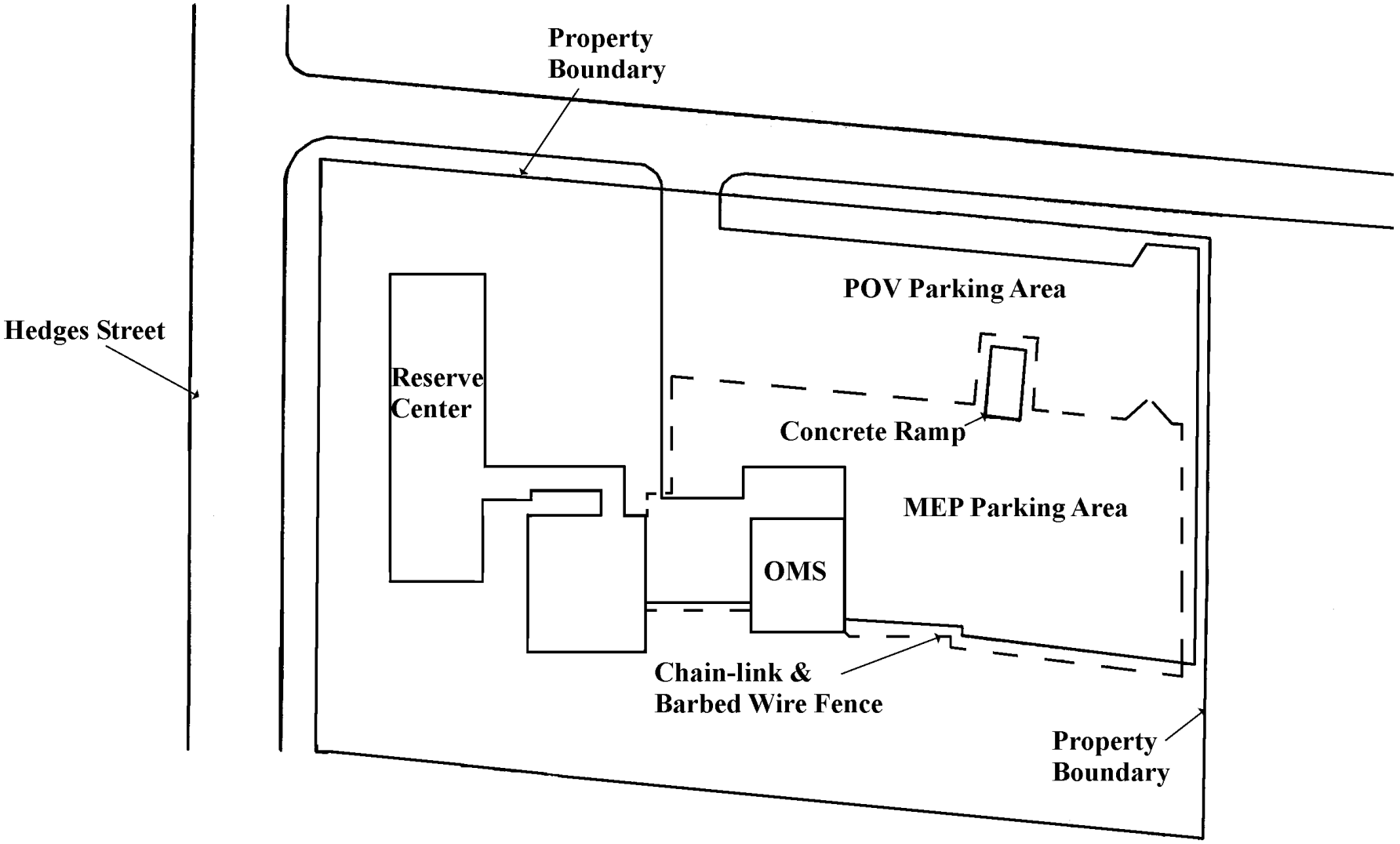


North

Scale Unknown

SOURCE: Section 110 report for SSG Roy Clifton Scouten USARC

FIGURE 1
General Site Location Map
Phase I ECP Report

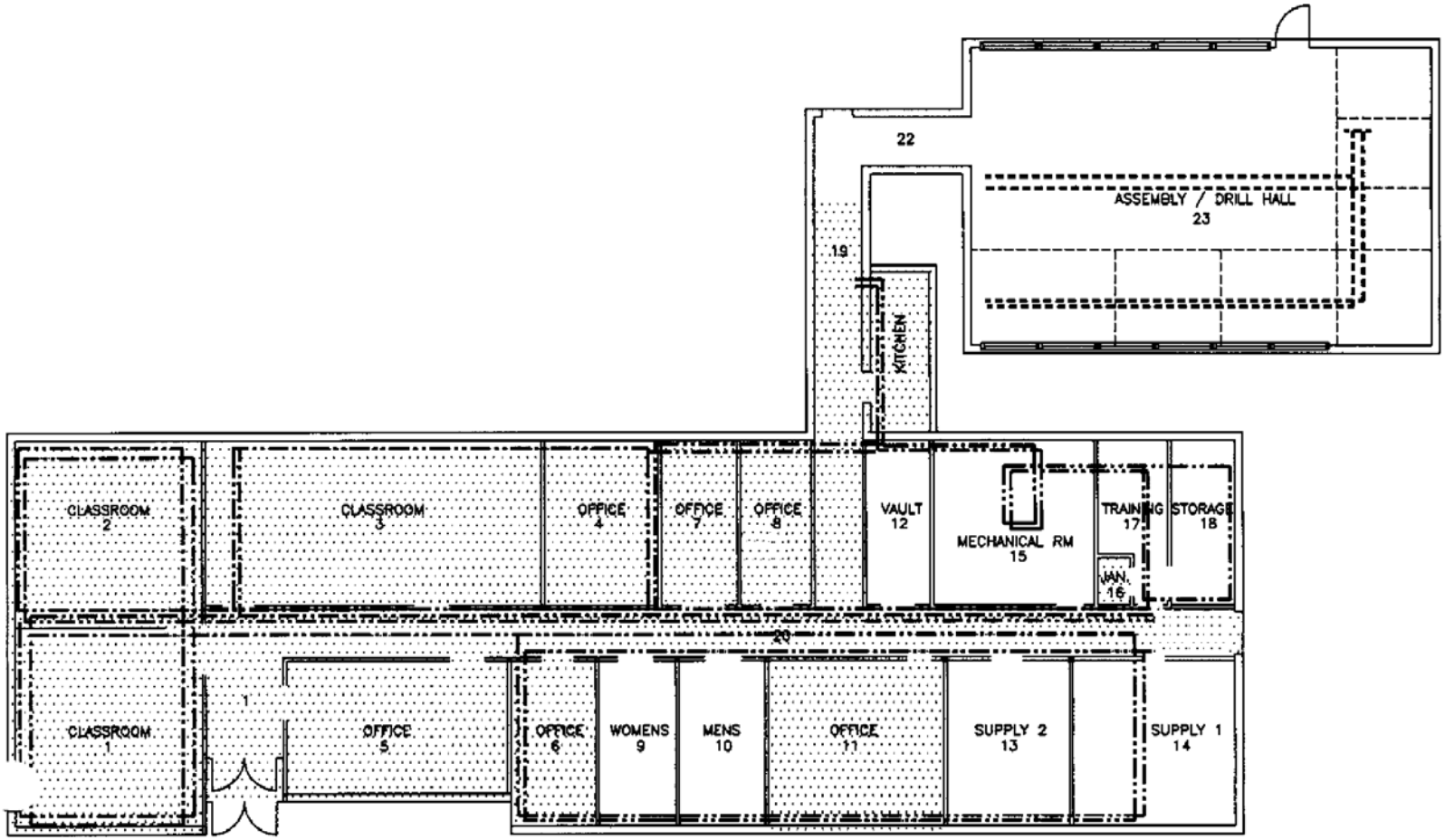


North

Not to Scale

SOURCE: Environmental Survey Report for Asbestos, PCBs, lead based Paint, and Radon for SSG Roy Clifton Scouten USARC, 2005

FIGURE 2
Site Layout Plan
Phase I ECP Report



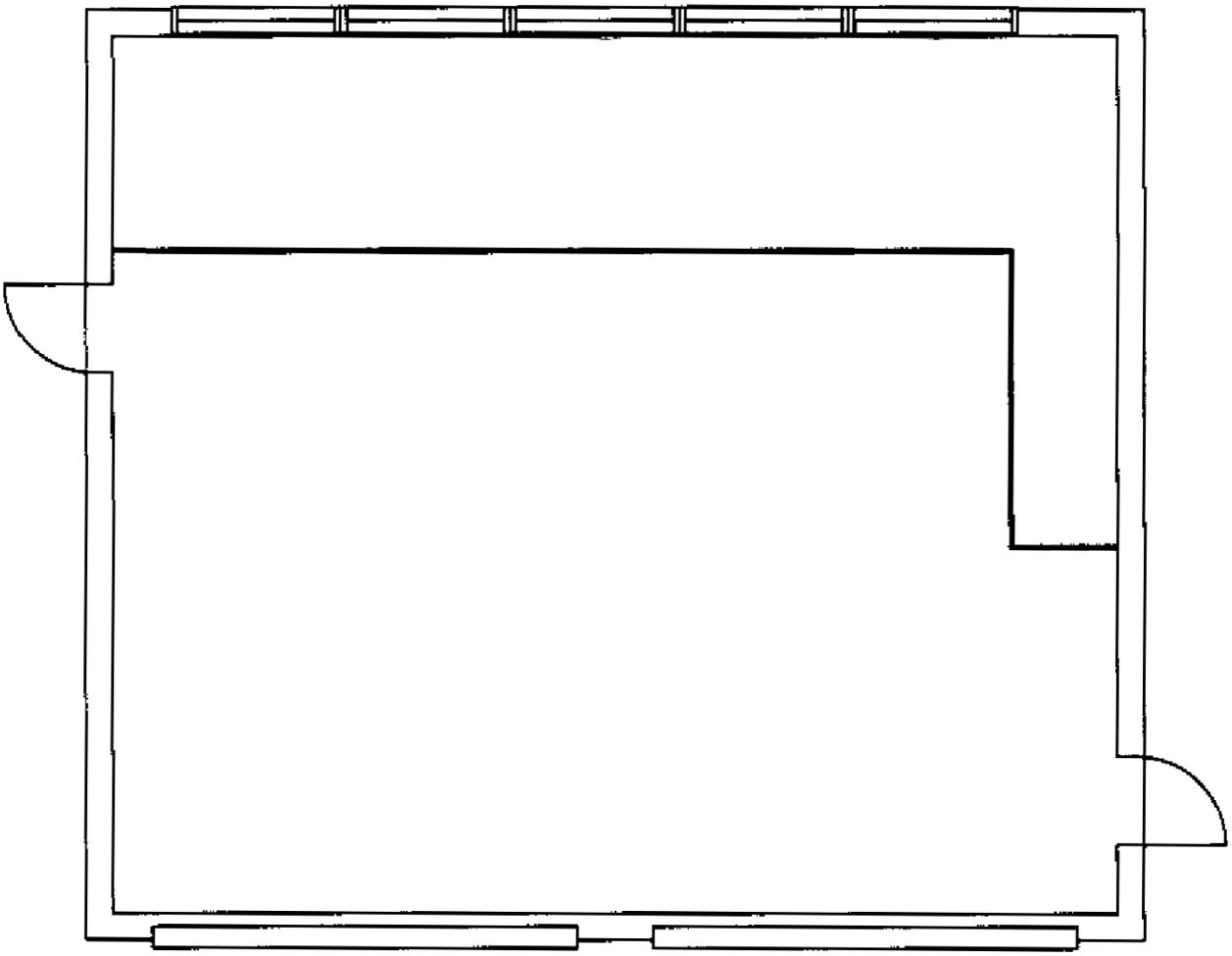
Note: Shaded area is one story and white area is two story

North

Not to Scale

SOURCE: Section 110 report for SSG Roy Clifton Scouten USARC

FIGURE 3
Interior Layout, Reserve Center
Phase I ECP Report

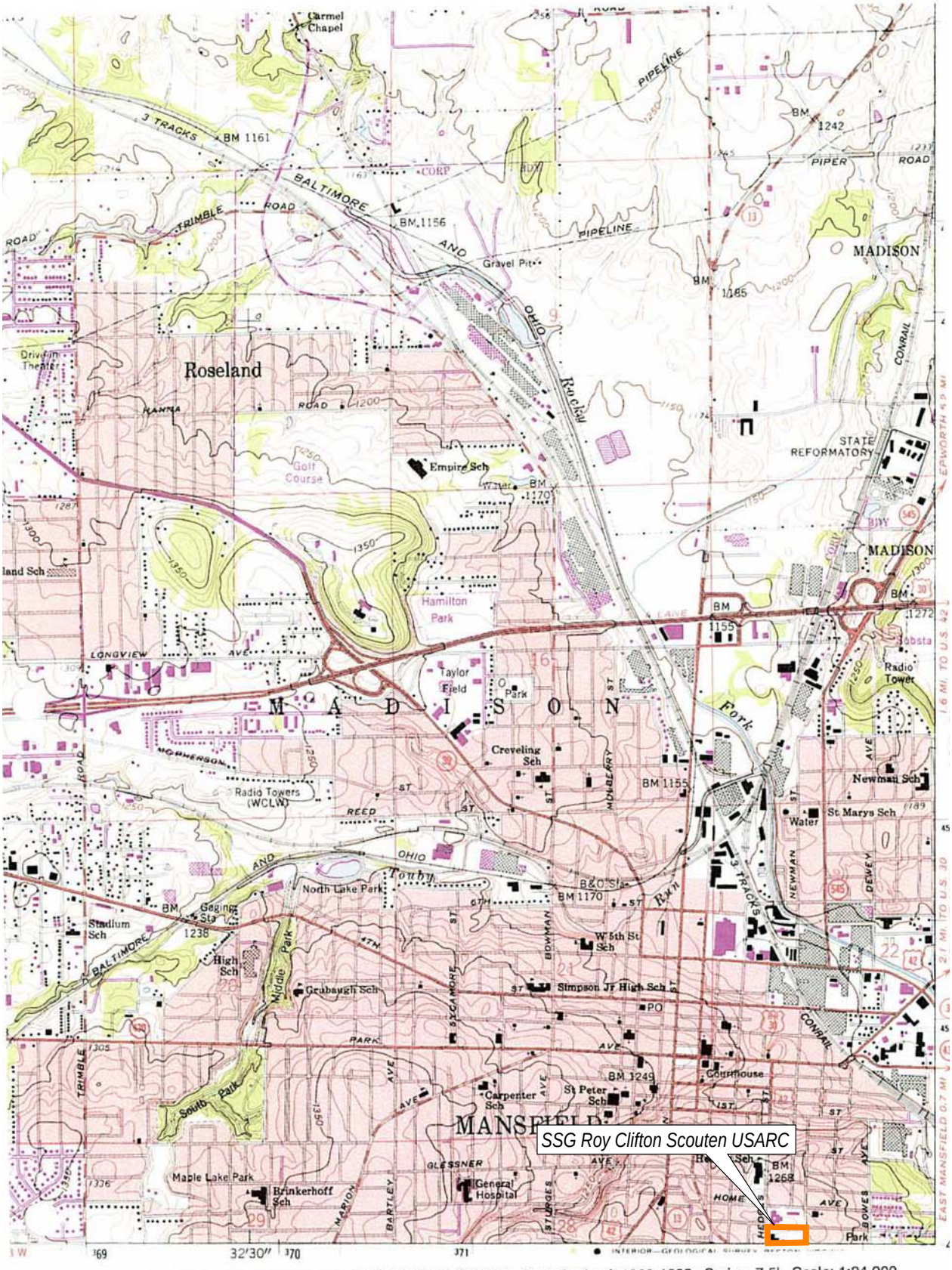


North

Not to Scale

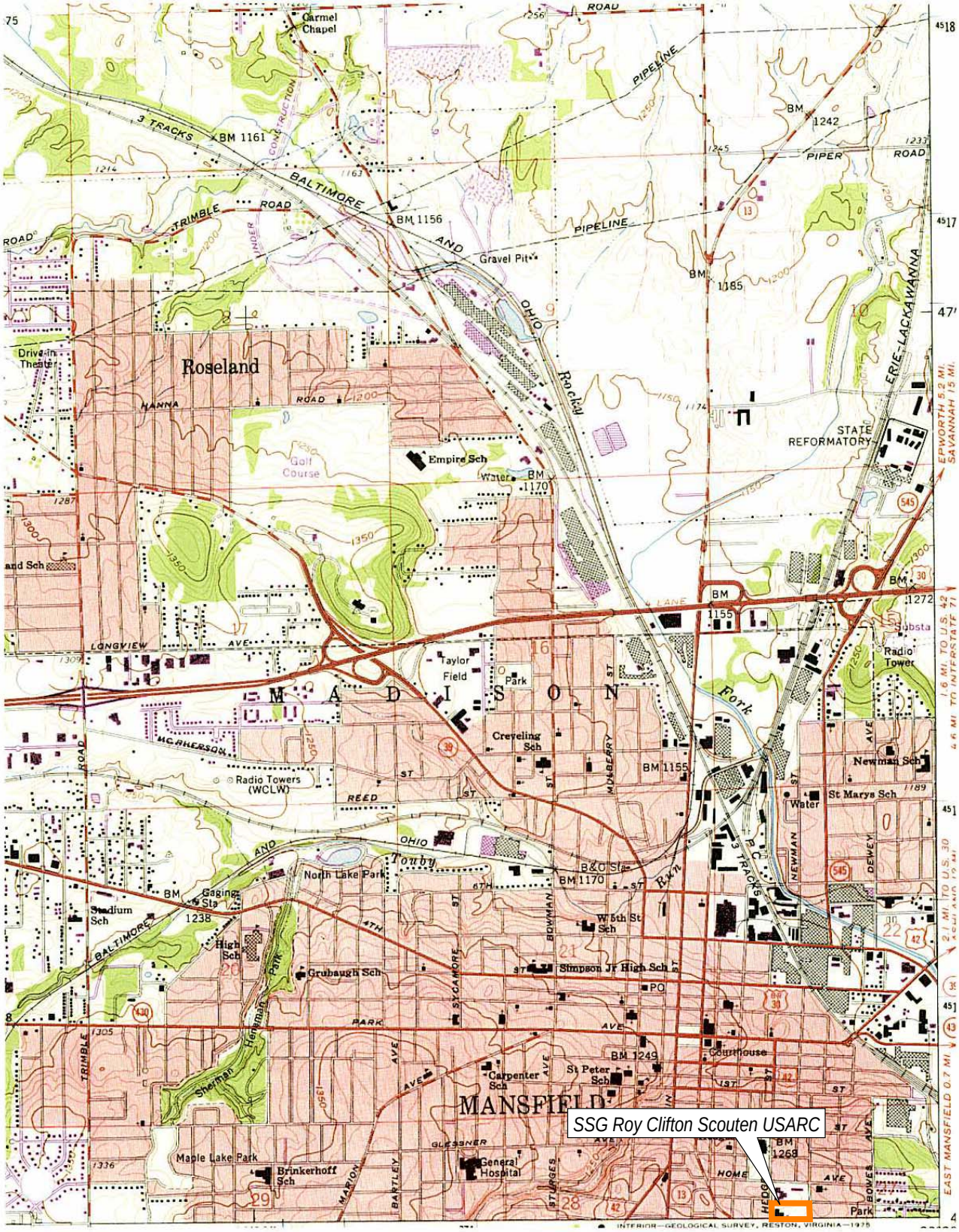
SOURCE: Environmental Survey Report for Asbestos, PCBs, lead based Paint, and Radon for SSG Roy Clifton Scouten USARC, 2005

FIGURE 4
Interior Layout, OMS Building
Phase I ECP Report



North

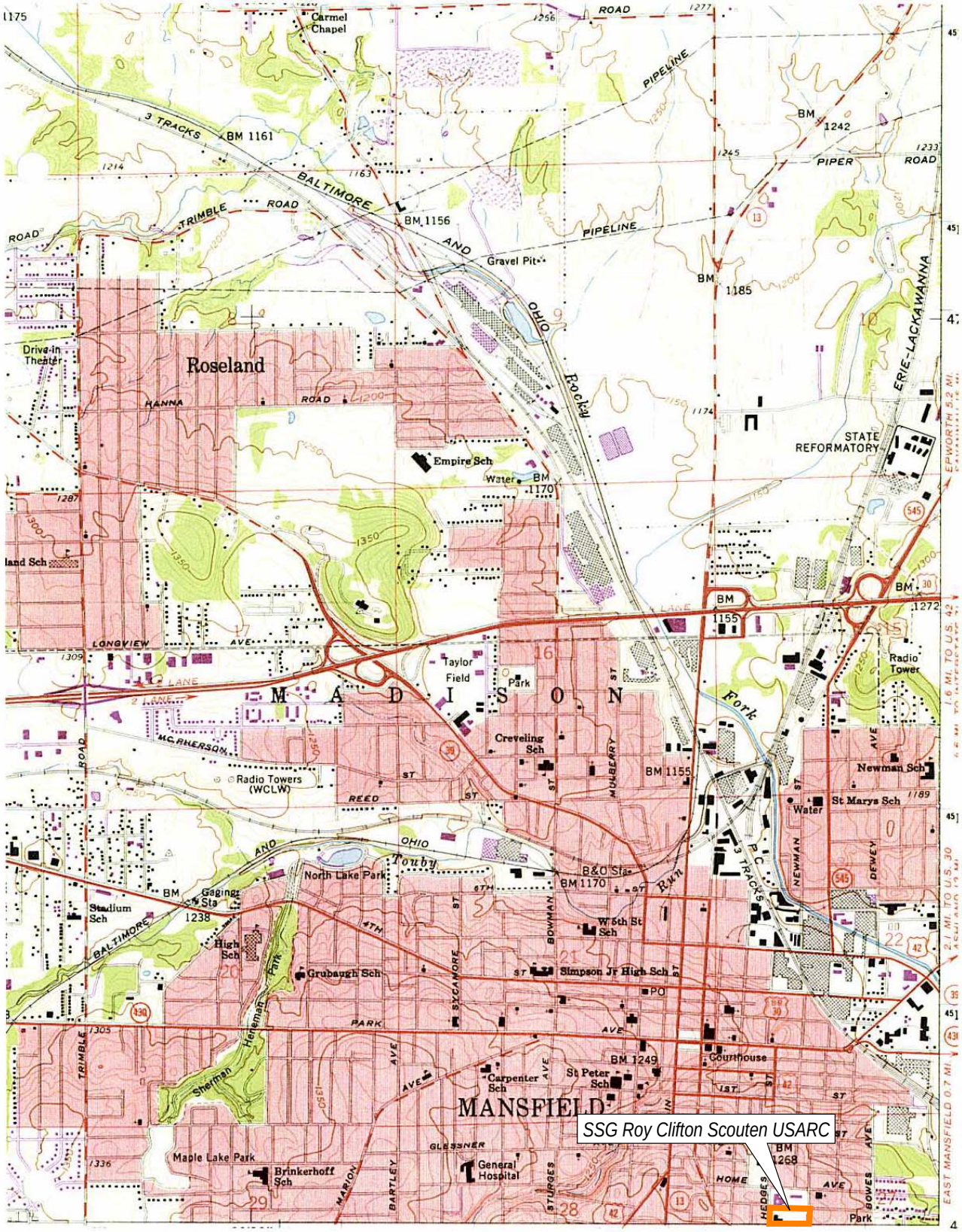
FIGURE 5
1960-1982 USGS 7.5 Minute Topographic Map, Mansfield North
Phase I ECP Report



N ^ EDR INQUIRY# 1714247.100 TARGET QUAD: MANSFIELDNORTH PhotoRevised: 1960-1974 Series: 7.5' Scale: 1:24,000

North

FIGURE 6
1960-1974 USGS 7.5 Minute Topographic Map, Mansfield North
Phase I ECP Report



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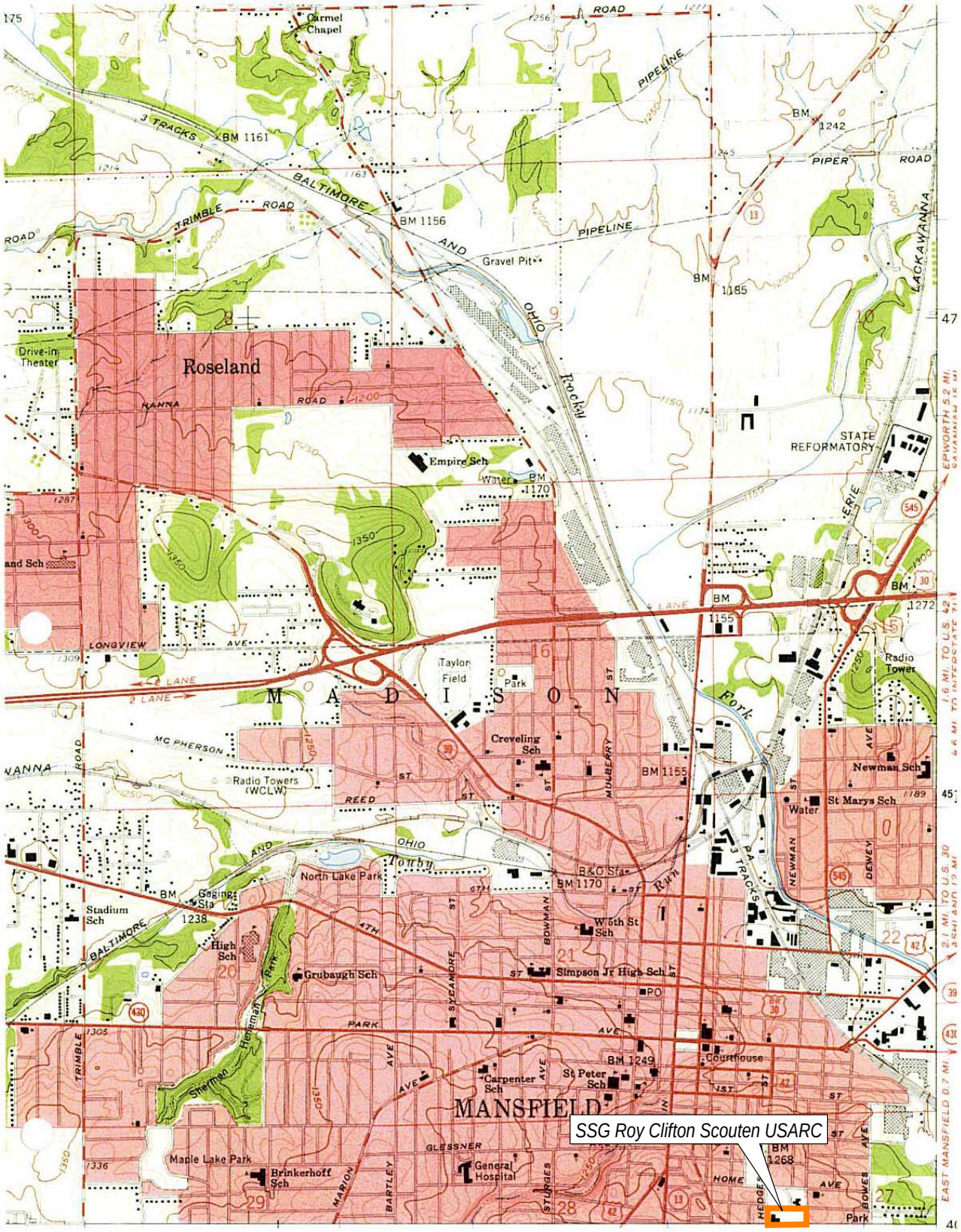
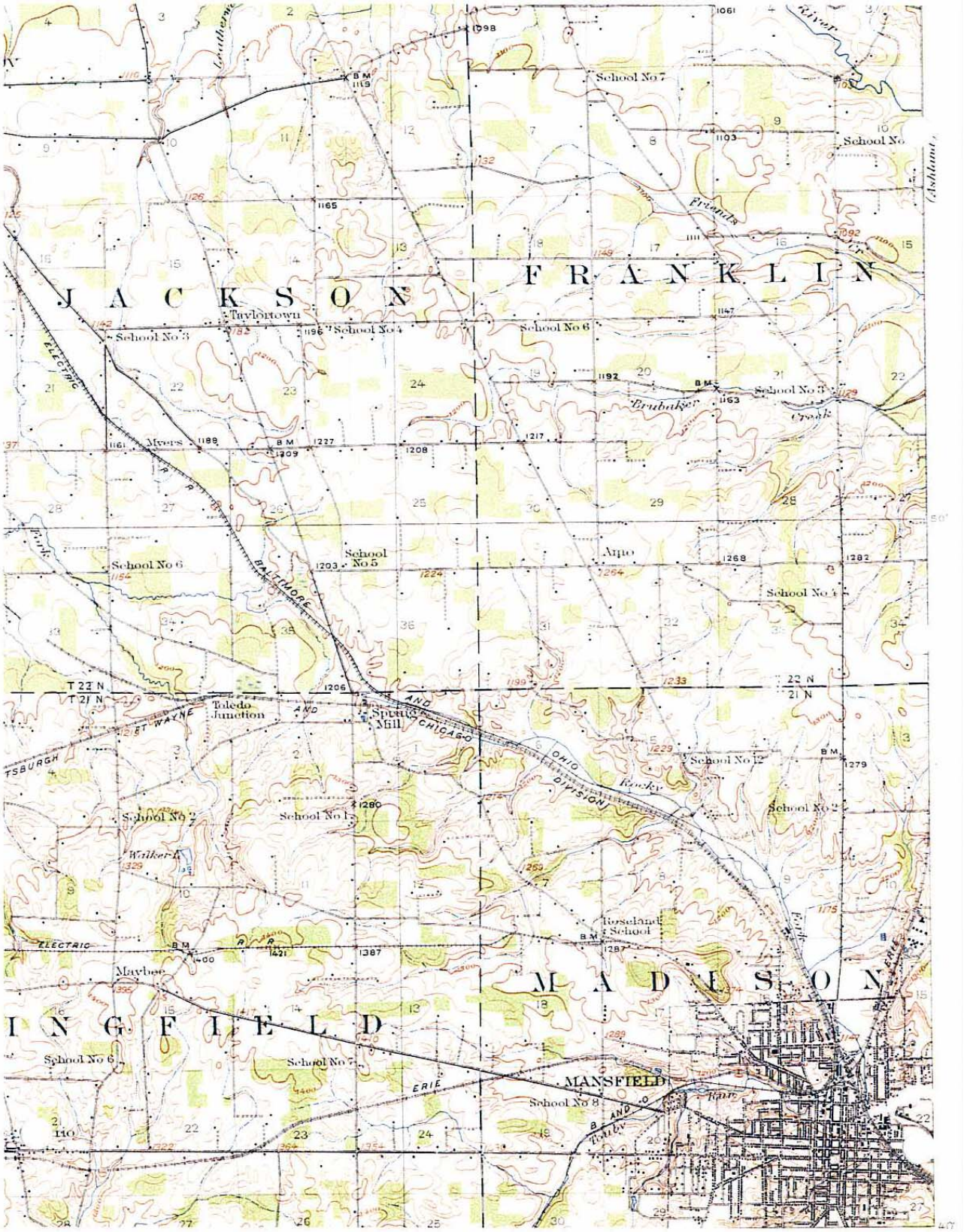
North

FIGURE 7
1960-1972 USGS 7.5 Minute Topographic Map, Mansfield North
Phase I ECP Report



North

FIGURE 8
1960 USGS Series 7.5' Topographic Map, Mansfield North
Phase I ECP Report



N ^ EDR INQUIRY# 1714247.100 TARGET QUAD: CRESTLINE YEAR: 1915 Series: 15' Scale: 1:62,500

North

FIGURE 9
1915 USGS Series 15' Topographic Map, Crestline
Phase I ECP Report

North

Scale Unknown

FIGURE 10
1966 Aerial Photo
Phase I ECP Report

North
Scale Unknown

FIGURE 11
1979 Aerial Photograph
Phase I ECP Report

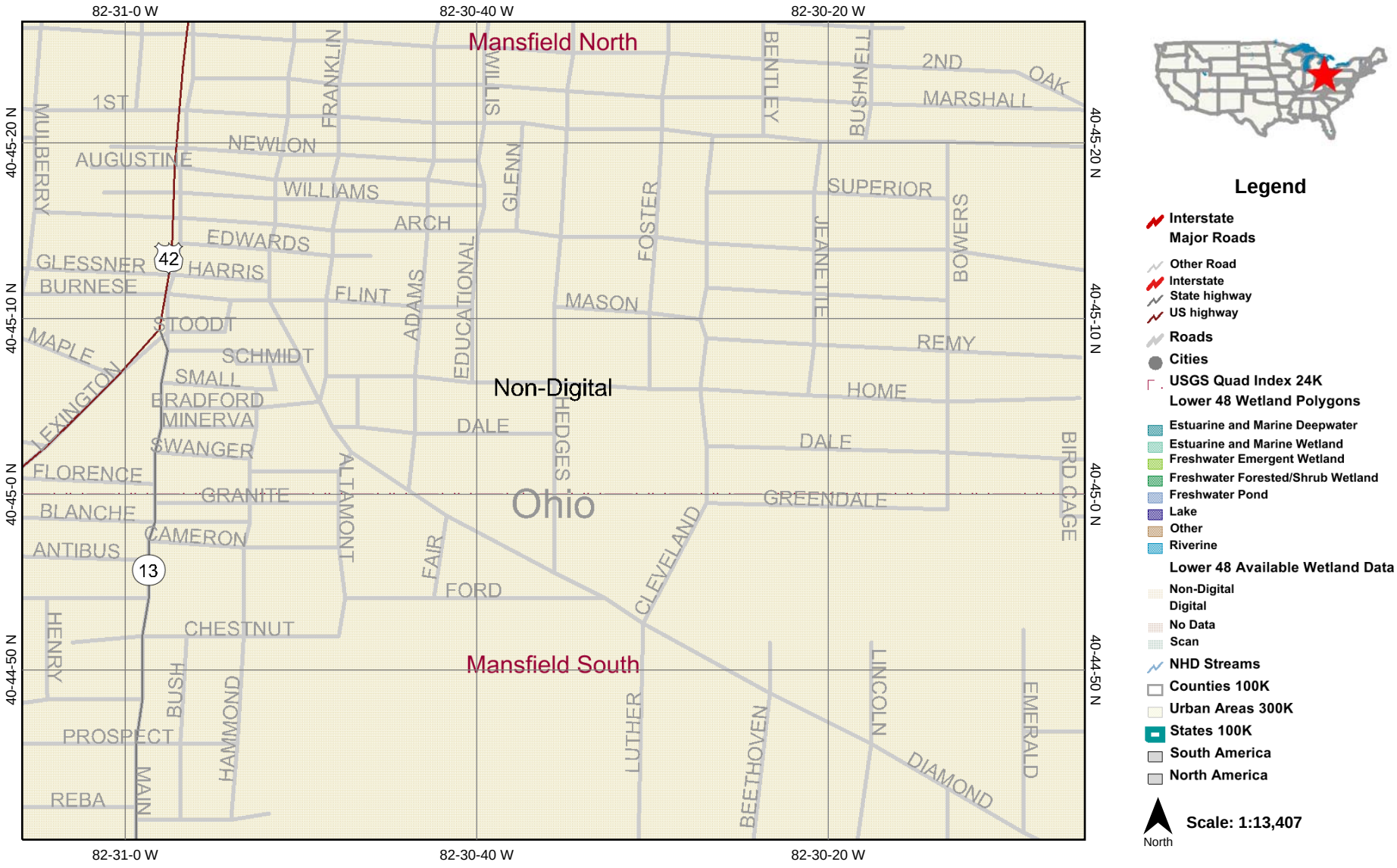
North
Scale Unknown

FIGURE 12
1987 Aerial Photograph
Phase I ECP Report

North

Scale Unknown

FIGURE 13
1998 Aerial Photograph
Phase I ECP Report



Legend

- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K

Lower 48 Wetland Polygons

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

Lower 48 Available Wetland Data

- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- Urban Areas 300K
- States 100K
- South America
- North America

North

Scale: 1:13,407

Map center: 40° 45' 4" N, 82° 30' 36" W

FIGURE 14
Wetland Map
Phase I ECP Report

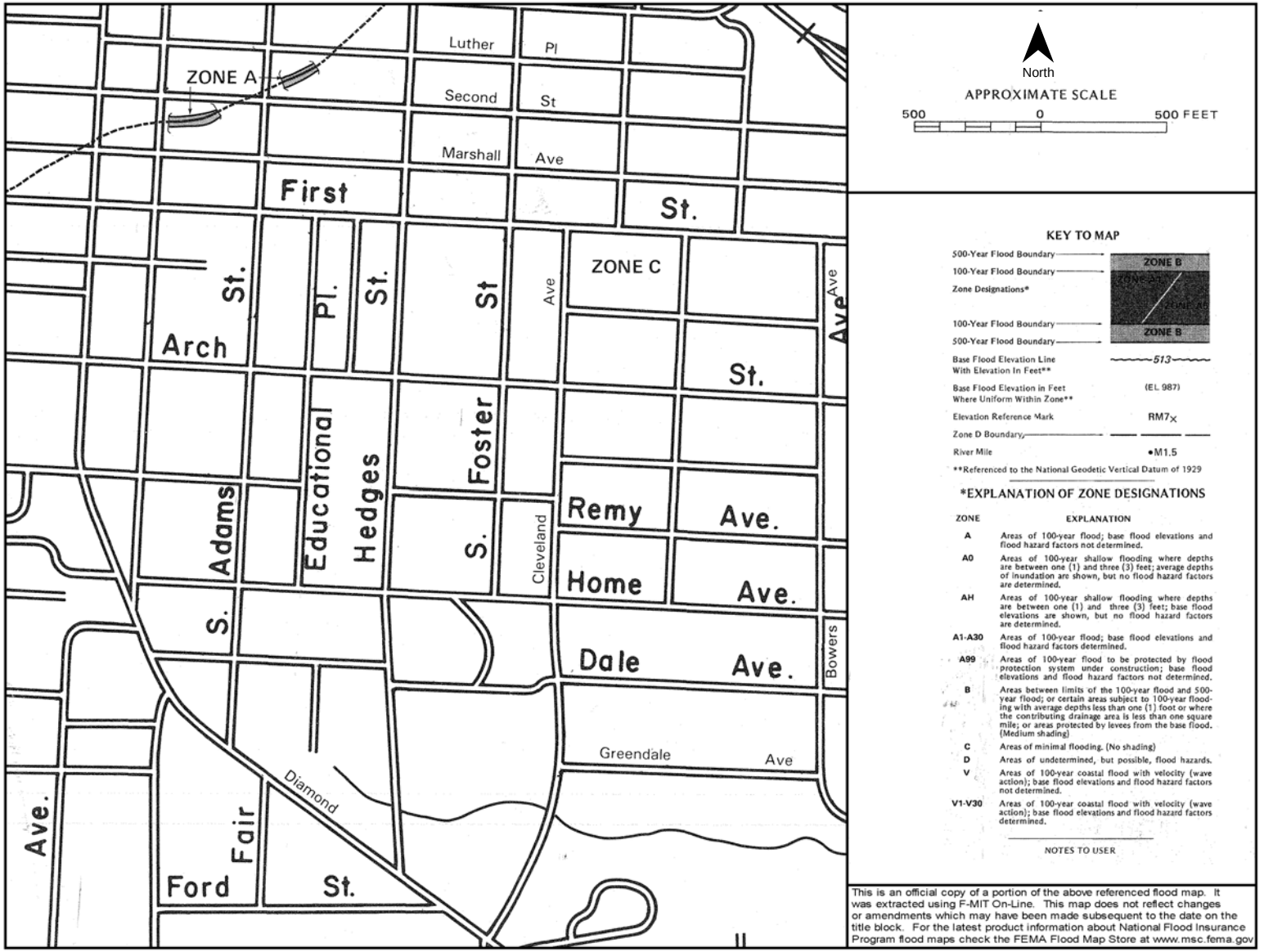


FIGURE 15
Flood Plain Map
Phase I ECP Report

Appendix B
Site Reconnaissance Photographs

APPENDIX B

Site Reconnaissance Photographs

1. Front of Reserve Center

2. Hazardous Materials Storage Shed

3. South side of OMS where Conex boxes are stored.

4. Storage area in OMS while preparing for move from the facility.

5. MEP area and storm drain

6. Drain along the west side of the MEP area

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

SSG ROY CLIFTON SCOUTEN USARC, OH
271 HEDGES ST
MANSFIELD, OHIO

Submitted to:

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

Attention: Mary Jacques

Project No. N06-5570

Monday, September 11, 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 A-100, situated and lying in the Northwest ¼ of Section 27, in the City of Mansfield, Richland County, State of Ohio

Assessor's Parcel No: 0270650019000

1. HISTORICAL CHAIN OF TITLE

1. DEED:
   - RECORDED: 05-16-1881
   - GRANTOR: Henry C. Hedges, deceased by Executor
   - GRANTEE: Commissioners of Richland County
   - INSTRUMENT: Bk 79, Pg 208

2. DEED:
   - RECORDED: 05-16-1881
   - GRANTOR: Henry C. Hedges, deceased by Executor
   - GRANTEE: Commissioners of Richland County
   - INSTRUMENT: Bk 79, Pg 557

3. DECLARATION OF TAKING:
   - RECORDED: 09-24-1956
   - GRANTOR: Commissioners of Richland County
   - GRANTEE: United States of America
   - INSTRUMENT: Bk 429, Pg 526

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

5 H 037

OHIO HISTORIC INVENTORY

Ohio Historic Preservation Office
1985 Velma Avenue
Columbus, Ohio 43211
614/297-2470

OHIO HISTORICAL SOCIETY SINCE 1885

1 No

2 County: Richland County

4 Present Name(s): SSG Roy Clifton Scouten USARC Reserve Center ☐ Coded

3 Location of Negatives: Fort McCoy Archaeology Laboratory

Roll No. Picture No (s)

5 Historic or Other Name(s): N/A

6 Specific Address or Location: 271 Hedges Street, Mansfield, Ohio 44903-2697

6a Lot, Section or VMD Number

7 City or Village: Mansfield, Ohio

7 Rural, Township & Vicinity

8 Site Plan with North Arrow

9 U.T.M. Reference — Quadrangle Name: Mansfield North Quadrangle

Zone	Easting	Northing
17	372641	4512148

10 Site ☐ Structure ☐ Building ☑ Object ☐

11 On National Register? Yes ☐ No ☑

12 N.R. Potential? Yes ☐ No ☑

13 Part of Estab Hist. Dist.? Yes ☐ No ☑

14 District Potential? Yes ☐ No ☑

15 Name of Established District (N.R. or Local): N/A

16 Thematic Association(s): None

17 Date(s) or Period: None

17b Alteration Date(s): N/A

18 Style or Design: None ☐ High Style ☐ Elements

18a Style of Addition or Element(s): None

19 Architect or Engineer: Unknown

19a Design Sources: Unknown

20 Contractor or Builder: Unknown

21 Building Type or Plan: Irregular-shaped

22 Original Use, if apparent: U.S. Army Reserve Center

23 Present Use: U.S. Army Reserve Center

24 Ownership: U.S. Government Public ☐ Private ☐

25 Owner's Name & Address, if known: Property controlled by 88th RSC Real Estate Division, 506 Roeder Circle, Fort Snelling, MN 55111-4017

26 Property Acreage: 3.5 acres

27 Other Surveys in Which Included: N/A

28 No. of Stories: 2

29 Basement? Yes ☐ No ☑

30 Foundation Material: Concrete

31 Wall Construction: Concrete Block

32 Roof Type & Material: Flat

33 No. of Bays: Front 4 Side 5

34 Exterior Wall Material(s): Brick Veneer

35 Plan Shape: Irregular

36 Changes (Explain in #42): Addition ☐ Altered ☐ Moved ☐

37 Window Type(s): ☐ 6 over 6 ☐ 2 over 2 ☐ 4 over 4 ☑ Other

38 Building Dimensions: 28m x 40m

39 Endangered? Yes ☐ By What? No ☑

40 Chimney Placement: N/A

41 Distance from and Frontage on Road

42 Further Description of Important Interior and Exterior Features (Continue on reverse if necessary)

The Reserve Center was constructed in 1958 and is a multiple-level, irregular-shaped building consisting of a one-story administration section and a two-story drill hall connected by a one-story, L-shaped enclosed corridor. The structure rests upon a concrete foundation with concrete block walls and a red brick veneer. A pair of metal pedestrian doors with single light fixed windows and three, one-over-one light double-hung windows with plain slip sills are recessed into the west side of the building. Additional entrances include single and paired metal pedestrian doors located on the south and east walls. A metal overhead retractable bay door is located on the east wall. A series of one-over-one light double-hung windows with plain slip sills

PHOTO

PHOTO

43 History and Significance (Continue on reverse if necessary)
N/A

44 Description of Environment and Outbuildings (See #52)
N/A

45 Sources of Information

"Environmental Assessment for Construction of a New Reserve Center at Mansfield, Ohio." 83rd RSC Engineering and Housing Division. July 1986.
"Dedication Plaque." SSG Roy Clifton Scouten USARC. 1958
"Real Property Detail Report Criteria: Total Inventory." 88th RSC Real Estate Division. March 1998.

46 Prepared by: Heather Spencer

47 Organization: Fort McCoy Archaeology Laboratory

48 Date Recorded in Field: 8/19/97

49 Revised by

50a Date Revised

50b Reviewed by

1 No.

2 County

4,5 Present or Historic Name

6 Specific Address or Location

51. Condition of Property

☐ Excellent ☐ Ruin
☑ Good/Fair ☐ Destroyed/Burned
☐ Deteriorated Date _____

52. Historic Outbuildings and Dependencies

Barn Type(s)
N/A

Corn Crib or Shed ☐ Smoke House ☐ Privy ☐
Summer Kitchen ☐ Spring House ☐ Garage ☐
Silo ☐ Ice House ☐
Designed landscape features ☐

N/A

53. Affiliated OAI Site Number(s) _____ one _____ multiple

Archaeological Feature:	Observed	Expected on Basis of Archival Research
Well	_____	_____
Privy	_____	_____
Cistern	_____	_____
Foundation	_____	_____
Structural Rubble	_____	_____
Formal Trash Dump	_____	_____
Other	_____	_____

54. Farmstead Plan

42. (Cont'd)
and two sliding windows with plain slip sills are located around the perimeter of the building. A series of one-over-one light fixed and awning ribbon windows with continuous plain slip concrete sills are located on the east side of the drill hall near the roof eaves. Two metal vents are located within the brick facade on the southeast corner of the building. A flat roof covers the building.

43. (Cont'd)
N/A

OHIO HISTORIC INVENTORY

Ohio Historic Preservation Office
1985 Velma Avenue
Columbus, Ohio 43211
614/297-2470

OHIO HISTORICAL SOCIETY SINCE 1885

1 No

2 County: Richland County

4 Present Name(s): SSG Roy Clifton Scouten USARC Organizational Maintenance Shop ☐ Coded

3 Location of Negatives: Fort McCoy Archaeology Laboratory

Roll No. Picture No.(s)

5 Historic or Other Name(s): N/A

6 Specific Address or Location: 271 Hedges Street, Mansfield, Ohio 44903-2697

6a Lot, Section or VMD Number

7 City or Village: Mansfield, Ohio — If Rural, Township & Vicinity

8 Site Plan with North Arrow

9 U.T.M. Reference — Quadrangle Name: Mansfield North Quadrangle

Zone	Easting	Northing
17	372641	4521148

10 Site ☐ Structure ☐ Building ☑ Object ☐

11 On National Register? Yes ☐ No ☑

12 N.R. Potential? Yes ☐ No ☑

13 Part of Estab Hist. Dist.? Yes ☐ No ☑

14 District Potential? Yes ☐ No ☑

15 Name of Established District (N.R. or Local): N/A

16 Thematic Association(s): None

17 Date(s) or Period: None

17b Alteration Date(s): N/A

18 Style or Design: None ☐ High Style ☐ Elements

18a Style of Addition or Element(s): None

19 Architect or Engineer: Unknown

19a Design Sources: Unknown

20 Contractor or Builder: Unknown

21 Building Type or Plan: Rectangular-shaped

22 Original Use, if apparent: U.S. Army Reserve Vehicle Maintenance Shop

23 Present Use: U.S. Army Reserve Vehicle Maintenance Shop

24 Ownership: U.S. Government — Public ☐ Private ☐

25 Owner's Name & Address, if known: Property controlled by 88th RSC Real Estate Division, 506 Roeder Circle, Fort Snelling, MN 55111-4017

26 Property Acreage: 3.5 acres

27 Other Surveys in Which Included: N/A

28 No. of Stories: 1

29 Basement? Yes ☐ No ☑

30 Foundation Material: Concrete

31 Wall Construction: Concrete Block

32 Roof Type & Material: Flat

33 No. of Bays: Front 2 Side 3

34 Exterior Wall Material(s): Brick Veneer

35 Plan Shape: Rectangular

36 Changes (Explain in #42): Addition ☐ Altered ☐ Moved ☐

37 Window Type(s): ☐ 6 over 6 ☐ 2 over 2 ☐ 4 over 4 ☑ Other

38 Building Dimensions

39 Endangered? Yes ☐ By What? No ☑

40 Chimney Placement: N/A

41 Distance from and Frontage on Road

42 Further Description of Important Interior and Exterior Features (Continue on reverse if necessary)

The Organizational Maintenance Shop was constructed in 1958 and is a one-story rectangular building that rests upon a concrete foundation with concrete block walls and a brick veneer. Two metal overhead retractable bay doors are located on the north side of the building. Additional entrances include metal pedestrian doors with concrete steps located on the east and west walls. A series of one-over-one light fixed and awning ribbon windows with continuous plain slip concrete sills is located along the south wall near the roof eaves. A flat roof covers the building.

PHOTO

PHOTO

43 History and Significance (Continue on reverse if necessary)

N/A

44 Description of Environment and Outbuildings (See #52)

N/A

45 Sources of Information

"Environmental Assessment for Construction of a New Reserve Center at Mansfield, Ohio." 83rd RSC Engineering and Housing Division. July 1986.
"Dedication Plaque." SSG Roy Clifton Scouten USARC. 1958
"Real Property Detail Report Criteria: Total Inventory." 88th RSC Real Estate Division. March 1998.

46 Prepared by: Heather Spencer

47 Organization: Fort McCoy Archaeology Laboratory

48 Date Recorded in Field: 8/19/97

49 Revised by

50a Date Revised

50b Reviewed by

1 No. | 2 County | 4,5 Present or Historic Name | 6 Specific Address or Location

DEPARTMENT OF THE ARMY
HEADQUARTERS, 88th REGIONAL SUPPORT COMMAND
506 ROEDER CIRCLE
FORT SNELLING, MN 55111-4009

REPLY TO
ATTENTION OF

AFRC-CMN-EN (200)

6 July 2001

MEMORANDUM FOR 88th Regional Support Command (RSC) Facility Managers and Facility Coordinators

SUBJECT: Cultural Resources Survey

1. Please review and file the attached Cultural Resource Survey (Section 110 Survey) in the Cultural Resource Section of your Facility Environmental Files. This is a permanent facility record.

2. The 88th Regional Support Command (88th RSC) contracted the Fort McCoy Archaeology Laboratory (FMAL) to conduct a historic property inventory, under the provisions of Section 110 of the National Historic Preservation Act (NHPA), of United States Army Reserve Command (USARC) facilities owned or leased by the 88th RSC. This survey describes the recordation methods, physical descriptions, evaluation criteria, and the eligibility for nomination to the National Register of Historic Places (NRHP) for this property. Information contained in this survey also includes an explanation of the sources used in preparation of the survey.

3. The exterior of each building, structure, and object located on the USARC facility was photographed. Comprehensive views and unique architectural elements of each building were photographed in 35-mm black and white format and digital format. The 35-mm black and white photos are located at the 88th RSC Engineering Directorate. The survey and the digital photos are located on the Engineering public drive.

4. No additional review under the Section 110 of the NHPA is currently recommended at this USARC. Additional review will be required when existing building(s) reach the 50-year eligibility requirement for the NRHP or specific undertakings require compliance with Section 106 of the NHPA.

5. If you have any questions or require additional information, please contact your State Environmental Manager or the Headquarters Environmental Division at (612) 713-3825.

MARK E. BUCK
Environmental Division Chief

Enclosure

Ohio Section 110 Inventory
Volume I

Archaeological Resource Management Series
Reports of Investigation Number 16

Prepared for:

U.S. Army Reserve Command
88th Regional Support Command
Environmental Management Division
Fort Snelling
Minneapolis, Minnesota

Prepared by:

Heather L. Spencer
Fort McCoy Archaeology Laboratory
Directorate of Training and Mobilization
Fort McCoy, Wisconsin
December 1998

Editorial Review:

Andrea Den Otter
Fort McCoy Archaeology Laboratory
December 1999

Cover: LT Jacob Parrott USARC Reserve Center

National Historic Preservation Act of 1966, as Amended
Section 110

"In accordance with subsection 101(F) of the National Historic Preservation Act, the Secretary of the Interior in consultation with the Advisory Council on Historic Preservation, has developed the following guidelines for carrying out Federal agency responsibilities under Section 110 of the Act...Federal Agencies should follow these guidelines in establishing, monitoring, reviewing, and evaluating their programs for compliance with Section 110 of the Act. State Historic Preservation Officers should refer to these guidelines when providing assistance to Federal agencies under Sections 101(b)(3)(E) and (F) of the Act. The advisory Council on Historic Preservation [Council] will use these guidelines, as applicable, and recommend their use to Federal agencies, State Historic Preservation Officers, and others in agreements executed pursuant to Section 106 of the Act and 36 CFR Part 800. The Council will also use these guidelines in its review of Federal agency programs under Section 202(a)(6) of the Act...*Section 110(a)(1)*: "The heads of all Federal agencies shall assume responsibility for the preservation of historic properties which are owned or controlled by such agency. Prior to acquiring, constructing, or leasing buildings for purposes of carrying out agency responsibilities, each Federal agency shall use, to the maximum of the extent feasible, historic properties available to the agency. Each agency shall undertake, consistent with the preservation of such properties and the mission of the agency and the professional standards pursuant to Section 101(f) any preservation, as may be necessary to carry out this section" *Section 110(a)(2)*: "With the advice of the Secretary and in cooperation with the State Historic Preservation Officer for the State involved, each Federal agency shall establish a program to located, inventory, and nominate to the Secretary all properties under the agency's ownership or controlled by the agency, that appear to qualify for inclusion on the National Register in accordance with the regulations promulgated under Section 110(a)(2)(A). Each Federal agency shall exercise caution to assure that any such property that might qualify for inclusion is not inadvertently transferred, sold, demolished, substantially altered, or allowed to deteriorate significantly. Section 110(b): "Each Federal agency shall initiate measures to assure that where, as a result of Federal action or assistance carried out by such agency, a historic property is to be substantially altered or demolished, timely steps are taken to make or have made appropriate records, and that such records then be deposited, in accordance with Section 101(a), in the Library of Congress or with such other appropriate agency as may be designated by the Secretary, for future use and reference" *Section 100(c)*: "The head of each Federal Agency shall, unless exempted under Section 214, designate a qualified official to be known as the agency's "preservation officer who shall be responsible for coordinating that agency's activities under the Act. Each Preservation Officer may, in order to be considered qualified, satisfactorily complete and appropriate training program established by the Secretary under Section 110(g)." *Section 100(d)*: "Consistent with the agency's mission and mandates, all Federal agencies shall carry out agency programs and projects (including those under which any Federal assistance is provided for any federal license, permit, or other approval is required) in accordance with the purposes of this Act and, give consideration to programs and projects which will further the purposes of this Act." *Section 110(e)*: "The Secretary shall review and approve the plans for transferees of surplus federally owned historic properties not later than ninety days after his receipt of such plans to ensure that the prehistorical, historical, architectural, or culturally significant values will be preserved or enhanced. *Section 110(f)*: "Prior to the approval of any Federal undertaking which may directly and adversely affected any National Historic Landmark, the head of the responsible Federal agency shall, to the maximum extent possible, undertake such planning and actions as may be necessary to minimize harm to such landmark, and shall afford the Advisory council on Historic Preservation a reasonable opportunity to comment on the undertaking" *Section 110(g)*: "Each Federal agency may include the costs of preservation activities of such agency under this Act as eligible project costs in all undertakings such agency or assisted by such agency. The eligible project costs may also include amounts paid by a federal agency to any state to be used in carrying out, such preservation responsibilities of the federal agency under this Act, and reasonable costs may be charged to Federal licensees and permits as a condition to the issuance of such license or permit." *Section 110(h)*: "The Secretary shall establish an annual preservation awards program under which he may make monetary awards in amounts not to exceed $1,000 and provide citations for special achievements to officers and employees of Federal, State, and certified local governments in recognition of their outstanding contributions to the preservation of historic resources. Such programs may include the issuance of annual awards by the President of the United States to any citizen of the United States recommended for such award by the Secretary;" *Section 110(i)*: "Nothing in this Act shall be construed to require the preparation of an environmental impact statement where such a statement would not otherwise be required under the National Environmental Policy Act 1969, and nothing in this Act shall be construed to provide exemption from any requirement respecting the preparation of such a statement under such Acts." *Section 110(j)*: "The secretary shall promulgate regulations under which the requirements of this section may be waived in whole or in part in the event of a major natural disaster or an imminent threat to national security."

Table of Contents

Introduction

In 1996, the Fort McCoy Archaeology Laboratory contracted with the 88th RSC to conduct a historic properties inventory under the provisions of Section 110 of the NHPA. The inventory included all USARC facilities owned or leased by the 88th RSC in the state of Ohio. This report describes the recordation, evaluation methods, and results of the inventory. Additionally, this report documents the sources and informants used to evaluate the actions to nominate properties to the NHRP. Recommendations for NRHP reevaluation are also included.

Preliminary investigations included meetings with officials of the Ohio State Historic Preservation Office (SHPO) and documentary research conducted at the Ohio State Historical Society, regional county courthouses, and local libraries. Oral interviews were conducted with USARC personnel at each facility. The Ohio Archaeological Sites Index, maintained by the Ohio SHPO, was consulted to determine the location of any known archaeological sites located within a one-mile radius of each USARC facility. Fieldwork for the project was conducted during August-November 1997. All Ohio listings in the NRHP were reviewed prior to commencement of fieldwork for the inventory. Those properties on all USARC facilities that met the criteria for NRHP eligibility were examined and recorded to assess their potential for possible nomination to the NRHP.

Statement of Purpose

The Fort McCoy Archaeology Laboratory Section 110 inventory of the USARC facilities within the state of Ohio was conducted consistent with the *Secretary of the Interior's Standards and Guidelines for Identification and Evaluation* (*Standards*).

The primary goal of the NHPA, according to the *Standards*, is to "preserve prehistoric and historic resources throughout the nation for the inspiration and benefit of present and future generations." In fulfillment of this goal, governmental agencies, within the framework of their missions, are charged with administering federally owned, administered, or controlled prehistoric and historic resources in a spirit of stewardship, and caring for significant prehistoric and historic properties in ways that ensure long-them protection and integrity of those properties.

The *Standards* require agencies to identify, evaluate, and document their historic properties, and nominate them to the NRHP. According to the *Standards*, "identification, evaluation, and documentation of historic properties are critical in the long-term management of historic properties, as well as in program and project specific planning by a federal agency. The *Standards* also require that "the agency manages and maintains its historical properties in ways that preserve the properties historic, archaeological, architectural, or cultural values," and that "the agency considers historic properties in addition to its own when planning activities that may affect them." Agencies are also required under the *Standards* to develop "a process that identifies and evaluates historic properties in a timely fashion," and "a process that develops and implements agreements regarding the means by which adverse affects on historic properties will be considered." The documentation of historic properties, before they are substantially altered or demolished, and the placement of the documentation in an appropriate repository for future use and research, is also required.

In complying with the requirements of Section 110(a) (2) of the NHPA and the *Standards*, researchers from the Fort McCoy Archaeology Laboratory conferred with the Ohio SHPO regarding previous archaeological

or historical architectural investigations of U.S. Army Reserve Command properties within the State of Ohio. No information on previous archaeological or architectural documentation was found for the USARC facilities in Ohio. Discrepancies between existing documentary files about USAR buildings and structure and on-site recordation conducted by members of the Fort McCoy Archaeology Laboratory are recorded in detail within the individual facility sections of this report. All known archaeological sites within one-mile of the USARC facilities were also identified and documented. Historic themes established by the Ohio SHPO were followed in preparation of the historic context, and in identifying historic properties.

All fieldwork was conducted by Fort McCoy Archaeology Laboratory personnel who meet the *Secretary of Interior's Professional Qualification Standards* at 36 CFR61. The field recordation methods employed in the inventory follow accepted practices within the field of historic research and historic preservation. These included, but were not limited to, on-site evaluation and documentation of historic buildings and properties, review of all pertinent historical documentation of historic buildings and properties, review of all pertinent historical documentation, and interviews with facilities managers regarding the properties. Assessments of potential eligibility for the NRHP were made based upon the field research, on-site documentation and post inventory evaluation.

Factors That May Precipitate a Change in Status

The recommendations contained within this report are based upon the current legal ownership and physical conditions. Changes in the status of these properties may require a reevaluation of the property, or require additional investigations in compliance with Section 106 of the NHPA. Examples of changes that could necessitate a reevaluation of properties include, but are not limited to, demolition, demolition by neglect, construction, rehabilitation, or disposition.

Methodology

Members of the Fort McCoy Archaeology Laboratory conducted a formal literature and record search of each facility. The objective of this search was to establish the historical and archaeological context associated with each USARC. Searches conducted at local historical societies and municipal governments provided additional documentary and cartographic information relevant to the historic context of individual USARC facilities. Research was also conducted at the Ohio SHPO offices to obtain information relative to the location of all recorded archaeological sites within a one mile radius of each USARC facility. All existing archaeological sites were documented and evaluated in terms of their significance to USARC locations. A surface reconnaissance survey was conducted on the land associated with each USARC facility.

Architectural Study Methods

The architectural survey undertaken by members of the Fort McCoy Archaeology Laboratory was conducted using guidelines published by the Historic American Building Survey (HABS) and the Ohio SHPO. Data represented in this report was collected with methods that includes:

1) a literature review of the historic documents relating to the construction and maintenance of each building on the USARC facilities;

2) an architectural evaluation of the potential eligibility of each building on the USARC facilities;

3) a surface reconnaissance of land associated with each USARC facility.

The historic themes used to evaluate the historic contexts associated with the properties analyzed in this inventory were taken directly from the guidelines identified by the Ohio SHPO. The results of the historical, architectural, and surface surveys conducted by members of the Fort McCoy Archaeological Laboratory are described in the following sections of this report.

Historical Literature Review

The methodology for the Ohio Section 110 Inventory was designed to establish a historic context for each USARC facility to assess the potential eligibility of USARC buildings for nomination to the NRHP. In preparation for the documentation of each USARC facility, historic research was conducted by members of the Fort McCoy Archaeology Laboratory and included:

1) examination of real property records maintained by the 88th RSC;

2) examination of real property records located at each USARC facility (when available);

3) an interview with the facility manager at each USARC facility;

4) NRHP eligibility nominations filed with the Ohio SHPO (when applicable);

5) examination of the Archaeological Sites Index maintained by the Ohio SHPO;

6) examination of the historic documents housed at the Ohio State Historical Society, regional county courthouses, and local libraries;

7) examination of previous cultural resource, archaeological, architectural, and environmental surveys available about each USARC facility (when available).

Architectural Fieldwork

Historic research of buildings at each USARC facility was conducted to establish an initial database of the architectural styles that would be encountered during on-site documentation. On-site fieldwork consisted of producing in-depth textual descriptions that included:

1). Architect/Builder
2). Type of building
3). Date of construction
4). Date of acquisition
5). Architectural style

6). Foundation material
7). Number of bays
8). Plan shape
9). Wall construction
10). Roof type
11). Roof materials
12). Chimney construction
13). Chimney placement
14). Type and location of entrances
15). Type and location of fenestration
16). Relationship of all buildings on the facility
17). Integrity of each building
18). Potential threat to the buildings
19). Future research potential at the facility
20). Assessment of the potential eligibility of each building to the NRHP under Criteria A, B, C, and D

Photo documentation captured the exterior of each building at the Ohio USARC facilities, including unique architectural elements. Photos were recorded in 35 mm black and white and Kodak DC 50 digital format. Data collected during on-site documentation and assessments was compiled into the Ohio Section 110 report and entered into USARC databases maintained by the Fort McCoy Archaeology Laboratory.

The Ohio Section 110 Inventory Report

An on-site assessment of the historic, architectural, and archaeological significance was accomplished to determine if buildings and/or districts on each USARC facility were potentially eligible for nomination under Criteria A, B, C, and D to the NRHP. The Ohio Section 110 Inventory is intended to provide the Commander, 88th RSC, with a comprehensive overview of all USARC properties in Ohio. Specifically, this report provides architectural, historic, archaeological, and security information to aid in the management of the physical resources located on USARC facilities owned or leased by the 88th RSC. Data contained in the individual sections of this report were recorded and presented in accordance with standards established by HABS and *the Secretary of the Interior's Guidelines for Section 110 of the NHPA.*[1]

Information included in discussions of individual USARC facilities may be repeated in the introduction and discussion sections. Information contained in the individual USARC facility sections include:

1). Facility Identification Number
2). Facility Name
3). Facility Address
4). USGS 7.5 Minute Series Quadrangle Map
5). UTM coordinates
6). Present Ownership/Occupant
7). Setting & Landscape
8). Archaeological Resources
9). Historical Information
10). Architectural Information
11). Security

12). Building Descriptions
13). Eligibility
14). Recommendations
15). Sources
16). Notes

National Register Criteria of Evaluation

Each building on the USARC facilities was assessed for its potential eligibility to the NRHP as defined in 36 CFR Part 60. The criteria used to evaluate the eligibility of properties for potential nomination to the NRHP assesses the significance of each facility in terms of its contribution to American history, historic persons, architecture, engineering, and archaeological research. The NRHP criteria and criteria considerations include:

Criteria:

A. That are associated with events that have made a significant contribution to the broad patterns of our history; or

B. That are associated with the lives of persons significant in our past; or

C. That embody the distinctive characteristics of a type, period, or method of construction or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or

D. That have yielded, or may be likely to yield, information important in prehistory or history.[2]

Criteria Considerations:

A. A religious property deriving primary significance from architectural or artistic distinction or historical importance; or

B. A building or structure removed from its original location but which is significant primarily for architectural value, or which is the surviving structure most importantly associated with the historic person or event; or

C. A birthplace or grave of a historical figure of outstanding importance if there is no other appropriate site or buildings directly associated with his productive life; or

D. A cemetery which derives its primary significance from graves of persons of transcendent importance, from age, from distinctive

design features, or from association with historic events; or

E. A reconstructed building when accurately executed in a suitable environment and presented in a dignified manner as part of a restoration master plan, and when no other building or structure with the same association has survived; or

F. A property primarily commemorative in intent if design, age, tradition, or symbolic value has invested it with its own historical significance;

G. A property achieving significance within the past 50 years if it is of exceptional importance.[3]

Historic Background

The European-American history of Ohio spans the past 330 years. During this time the physical character of the state changed from that of a sparsely settled, densely forested land, to a heavily populated state of large urban centers interspersed with small communities and farms. The Ohio Historic Preservation Office's research themes for Cultural Resources Management will be followed in this report.

History of Ohio

A French explorer, Nicolas Sanson d'Abbeville, mapped Lake Erie as early as 1650[4]. Rene Robert Cavelier Sieur de La Salle is thought to have discovered the Ohio River in 1669. Aside from the major waterways, the area that was to become Ohio was bypassed during the initial wave of French exploration to avoid conflict with the Iroquois Confederacy.[5] The French recognized the economic importance of the region, but were unable to establish effective control over such a vast area.

Beginning in the late 1600s and early 1700s, British explorers and trappers began to enter Ohio from Pennsylvania and Virginia. Both British and French crowns claimed the area; the French by right of discovery and the British by reliance on the traditional venue of royal charters. Competing French and British interests continued until 1752 when open warfare began in 1752. French-Canadians and Indians attacked and destroyed a Miami village with allegiance to Britain near the town of Pickawillany.[6] Although the French tried to maintain a viable national presence in Ohio, the final outcome of the French and Indian War[7] sealed the fate of the region when France abandoned the territory with the Treaty of 1763.

The period of official British control over the area was brief. Following the Treaty of 1763, the British Crown attempted to control trade with various Indian and French groups. The British soon found, however, that they also had a problem with increasing American encroachment into the region, resulting in conflict with the resident Native American tribes. In 1763, the British Crown issued a decree that forbade Americans from settling beyond the Appalachians and like most British decrees, was largely ignored by the American frontiersmen. At the start of the American Revolution, British control of Ohio was tenuous at best. Although large delegations of Native Americans signed a neutrality treaty at Fort Pitt in September 1775, by 1777, cross-border raids had resulted in open conflict between the tribes and American settlers, with the Native Americans increasingly aligned with the British[8]. Ohio was the scene of several skirmishes during the war,

Mansfield, Ohio

SSG Roy Clifton Scouten USARC

Identification Information:	Identification Number: OH037/39895 SSG Roy Clifton Scouten USARC 271 Hedges St., Mansfield, Richland County, Ohio 44903-2697 Telephone Number: (419) 525-1893 Mansfield North Quadrangle, Ohio, USGS 7.5 Minute Series, T21N R18W Section 22 (Figure 364) UTM: Z17, 372641E, 4512148N Present Owner/Occupant: The facility is owned by the United States Government and controlled by the 88th RSC.
Setting and Landscape:	The SSG Roy Clifton Scouten USARC consists of two buildings located on 3.5 acres of land (MN009) in a commercial and residential district of Mansfield, Ohio (Figure 365).[1] The facility is landscaped with grass, trees, and shrubs.
Archaeological Resources:	An archaeological records search at the Ohio State Historic Preservation Office determined that there are no known archaeological sites located within a one-mile radius of the SSG Roy Clifton Scouten USARC.
Historical Information:	The SSG Roy Clifton Scouten USARC was constructed in 1958.[2] There appear to have been no significant additions or alterations to the buildings since their original construction.
Security:	Security measures at the SSG Roy Clifton Scouten USARC include chain-link fencing topped with barbed wire surrounding a military vehicle parking area, the north, east and west sides of the Organizational Maintenance Shop, and a section of the east wall of the Reserve Center's drill hall. High intensity lighting is also present to illuminate the military and civilian parking areas.

Architectural Information:	The SSG Roy Clifton Scouten USARC consists of two concrete block buildings with red brick veneers. The buildings do not appear to exhibit historical or architectural character or merit that significantly contributes to the historic context of the period associated with their construction.
Building Descriptions:	**Reserve Center** (MN001) The Reserve Center functions as an administrative and drill facility for the SSG Roy Clifton Scouten USARC. Constructed in 1958[3], it is a multiple-level irregular shaped building consisting of a one-story administration section and a two-story drill hall connected by a one-story, L-shaped enclosed corridor. The structure rests upon a concrete foundation with concrete block walls and a red brick veneer. A pair of metal pedestrian doors with single light fixed windows and three one-over-one double-hung windows with plain slip sills are recessed into the west side of the building (Figures 366 & 367). Additional entrances include single and paired metal pedestrian doors on the south and east walls. A metal overhead retractable bay door is located on the east wall (Figure 368). Fenestrations include a series of one-over-one light double-hung windows with plain slip sills and two light sliding double-hung windows with plain slip sills around the perimeter of the building (Figure 369). A series of one-over-one light fixed and awning ribbon windows with continuous plain slip concrete sills are located on the east side of the drill hall near the roof eaves. Two metal vents are located within the brick veneer on the southeast corner of the building. A flat roof covers the structure (Figure 370). **Organizational Maintenance Shop** (MN011) The Organizational Maintenance Shop functions as a vehicle maintenance facility for the SSG Roy Clifton Scouten USARC. Constructed in 1958[4], it is a one-story rectangular building that rests upon a concrete foundation with concrete block walls and a brick veneer. Two metal overhead retractable bay doors are located on north side of the building (Figure 371). Additional entrances include metal pedestrian with concrete steps are located on the east and west walls (Figures 372 & 373). Fenestrations include a pair of one-over-one light fixed and awning ribbon windows with continuous plain slip concrete sills along the south wall near the roof eaves (Figure 374). A flat roof covers the structure. A concrete ramp is located northeast of the Organization Maintenance Shop and is used for vehicle maintenance activities undertaken at the facility (Figures 375 & 376).

Eligibility:	None of the buildings located at the SSG Roy Clifton Scouten USARC meet the criteria for the National Register of Historic Places (NRHP), under Criterion A, B, C, or D, and thus are not recommended for nomination to the NRHP. A historic documentary and architectural investigation conducted at the facility determined there is no direct relationship between the facility and prehistoric or historic events in the Mansfield area (criterion A), there is no association with significant persons involved in prehistoric or historic events (criterion B), buildings on the facility are not architecturally or technologically significant (criterion C), and the facility is unlikely to hold future research potential (criterion D).
Recommendations:	No additional review under Section 110 is recommended until the existing buildings at the SSG Roy Clifton Scouten USARC reach the 50 year eligibility requirement for the NRHP in 2008, or unless specific undertakings require compliance with Section 106 of the National Historic Preservation Act (36 CFR 800).
Sources:	"Dedication Plaque: SSG Roy Clifton Scouten USARC 1958." SSG Roy Clifton Scouten USARC, Mansfield, Ohio.[5] "Environmental Assessment for Construction of a New Reserve Center at Mansfield, Ohio." 83rd RSC Engineering and Housing Division, Fort Knox, Kentucky. July 1986. "Environmental Audit of Scouten U.S. Army Reserve Center." Lexington, Kentucky: Howard K. Bell, Consulting Engineers, Inc. 1991. "Mansfield North Quadrangle." USGS 7.5 Minute Series. Denver, Colorado: United States Geological Survey. 1961, photorevised 1982, photoinspected 1984. "Real Property Detail report Criteria: Total Inventory." 88th RSC DSCEN Real Estate Division. March 1998.
Notes:	[1] "Environmental Assessment for Construction of a New Reserve Center at Mansfield, Ohio," Fort Knox Engineering and Housing Division, Fort Knox, Kentucky, July 1986, p. 2, and "Real Property Detail report Criteria: Total Inventory," 88th RSC DSCEN Real Estate Division, March 1998, p. 24. A construction proposal by members of the Fort Knox Engineering and Housing Division state that 3.55 acres of land are associated with the SSG Roy Clifton Scouten USARC. However, records maintained by the 88th RSC DSCEN Real Estate Division state that 3 acres of land are

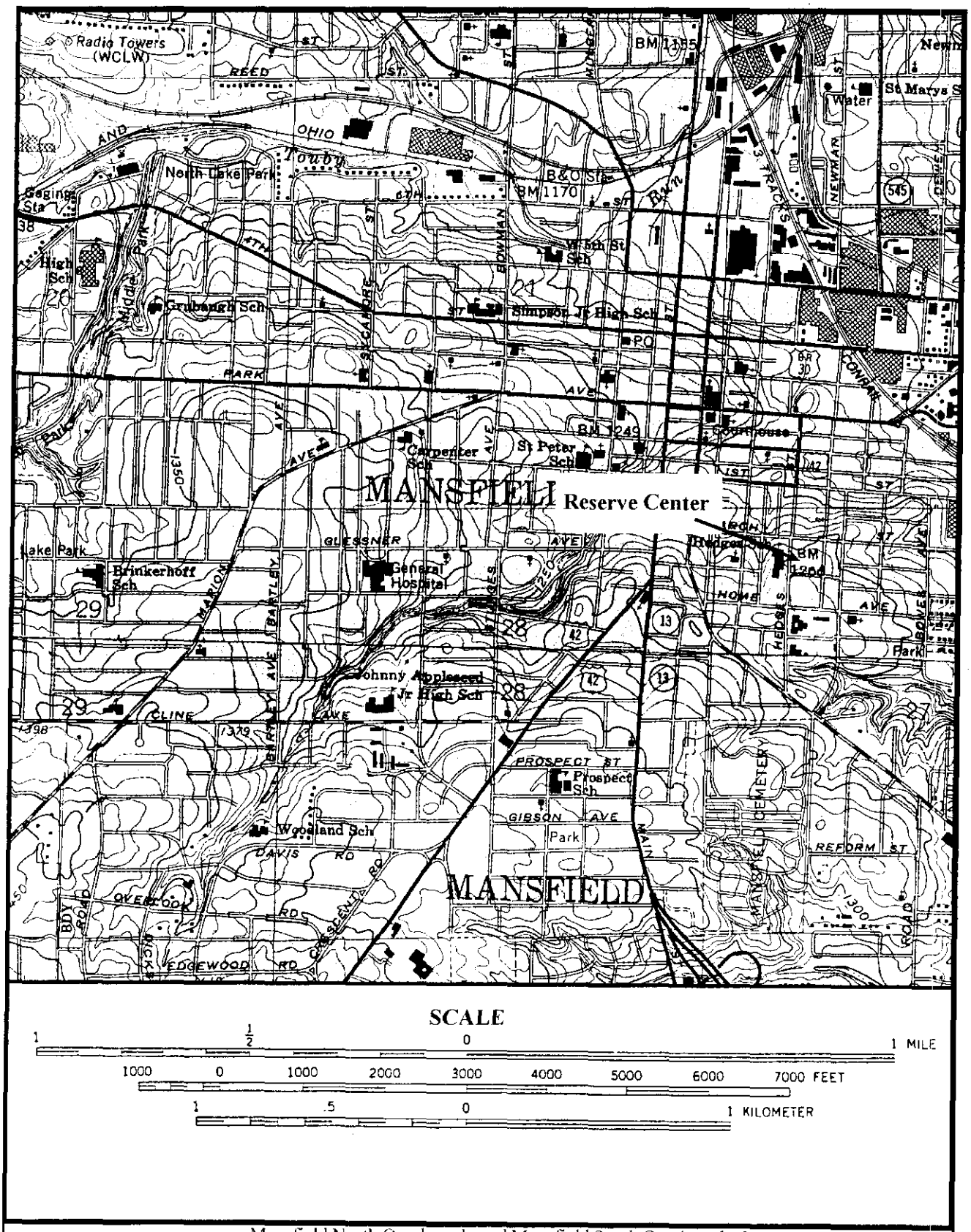
associated with the SSG Roy Clifton Scouten USARC. Fort McCoy Archaeology Laboratory investigators theorize that that size of the parcel of land at the facility is most likely 3.55 acres. Copies of the above reports are on file at the 88th RSC DSCEN Real Estate Division, Fort Snelling, Minnesota.

[2] "Dedication Plaque," SSG Roy Clifton Scouten USARC, 1958. The dedication plaque located in the foyer of the Reserve Center on the SSG Roy Clifton Scouten USARC states the facility was dedicated to the memory of SSG Roy Scouten in 1958. Fort McCoy Archaeology Laboratory investigators theorize that the buildings at the facility were completed the same year as the dedication.

[3] Ibid.

[4] Ibid.

[5] The "Dedication Plaque" is located on the interior wall of the Reserve Center foyer at the SSG Roy Clifton Scouten USARC.



Mansfield North Quadrangle and Mansfield South Quadrangle, USGS 7.5 Minute Series

Figure 364. Location of the SSG Roy Clifton Scouten USARC.

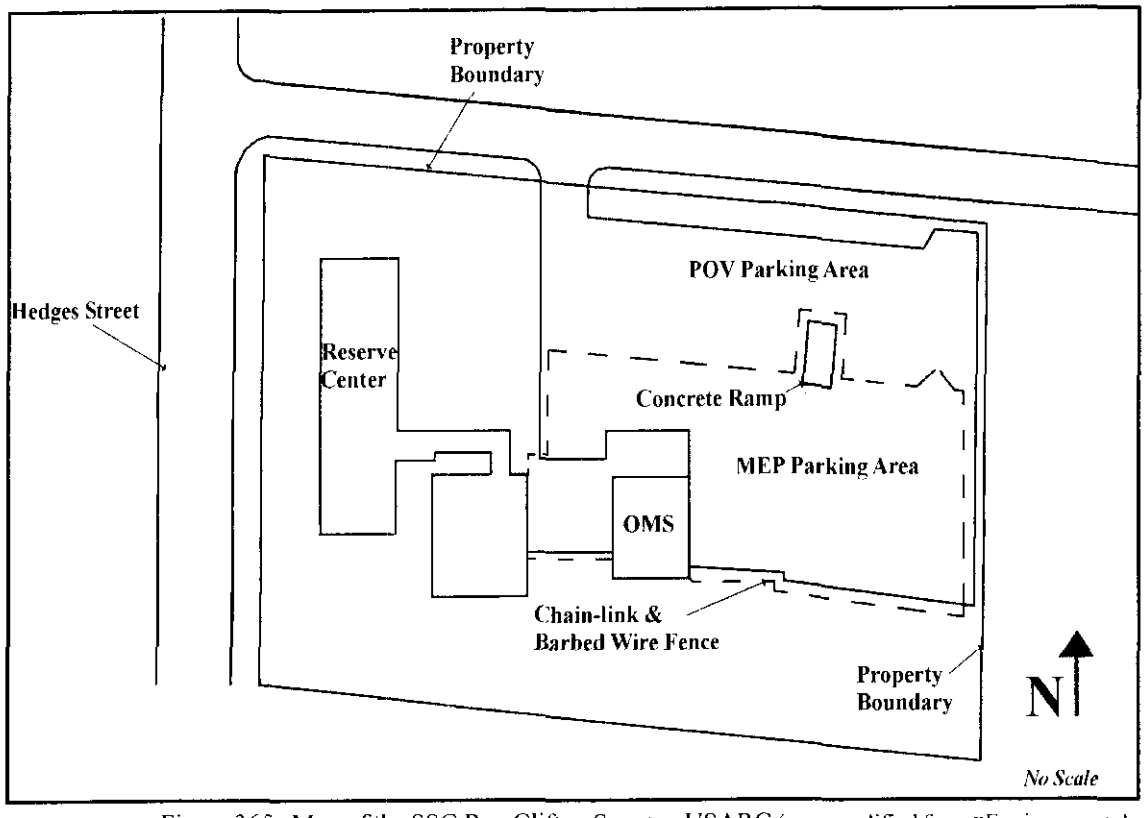


Figure 365. Map of the SSG Roy Clifton Scouten USARC (map modified from "Environmental Audit of Scouten U.S. Army Reserve Center," Howard K. Bell, Consulting Engineers, Inc., Attachment No. 1).

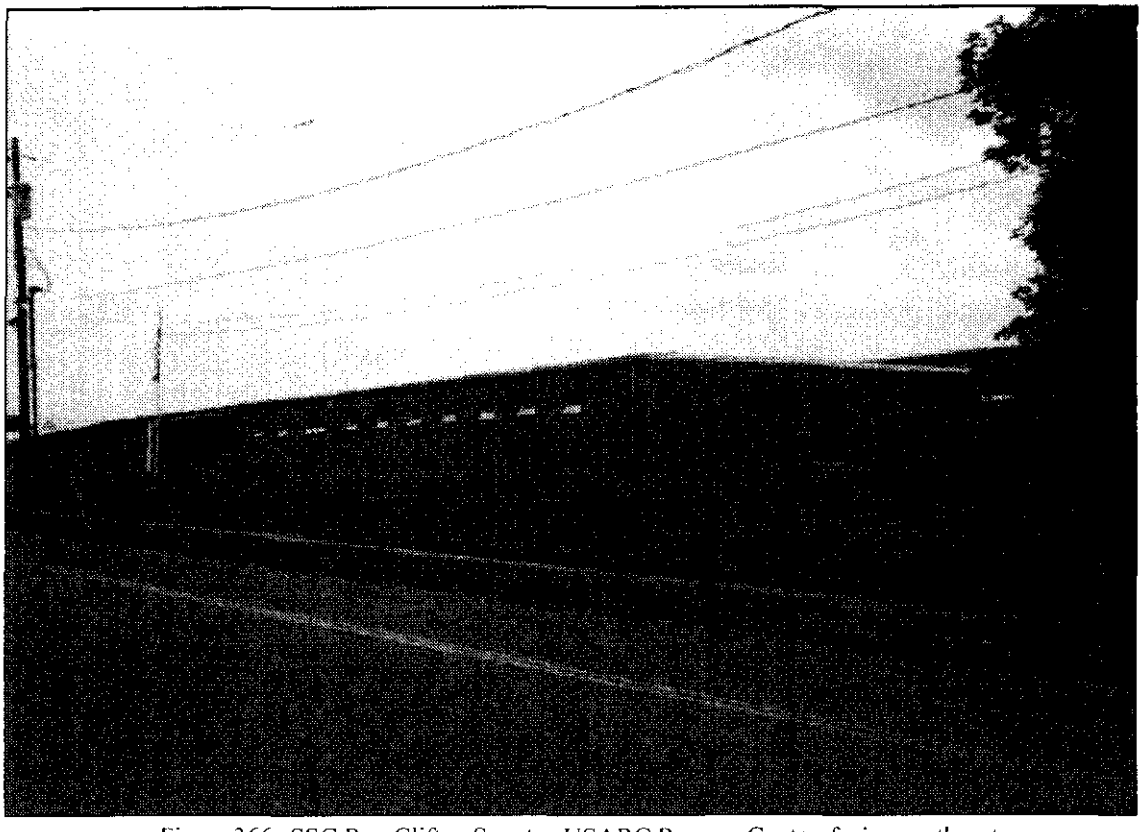


Figure 366. SSG Roy Clifton Scouten USARC Reserve Center, facing northeast.

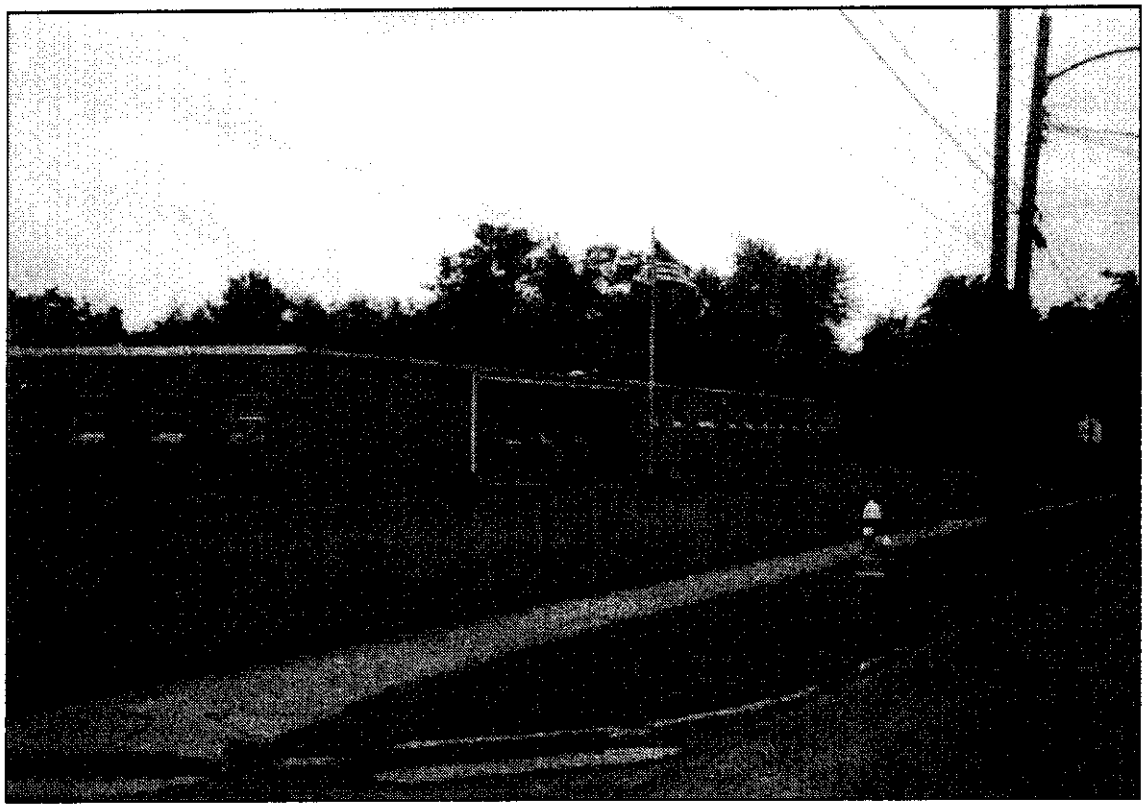


Figure 367. SSG Roy Clifton Scouten USARC Reserve Center, facing southeast.

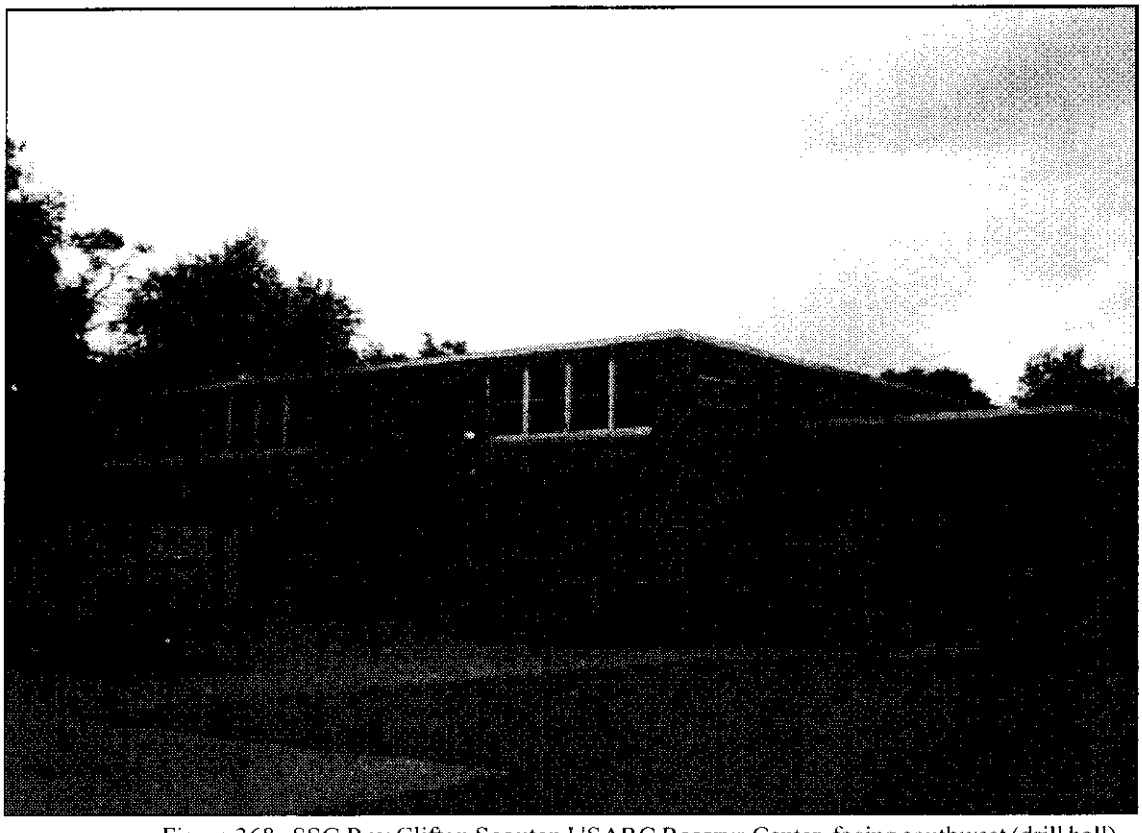


Figure 368. SSG Roy Clifton Scouten USARC Reserve Center, facing southwest (drill hall).

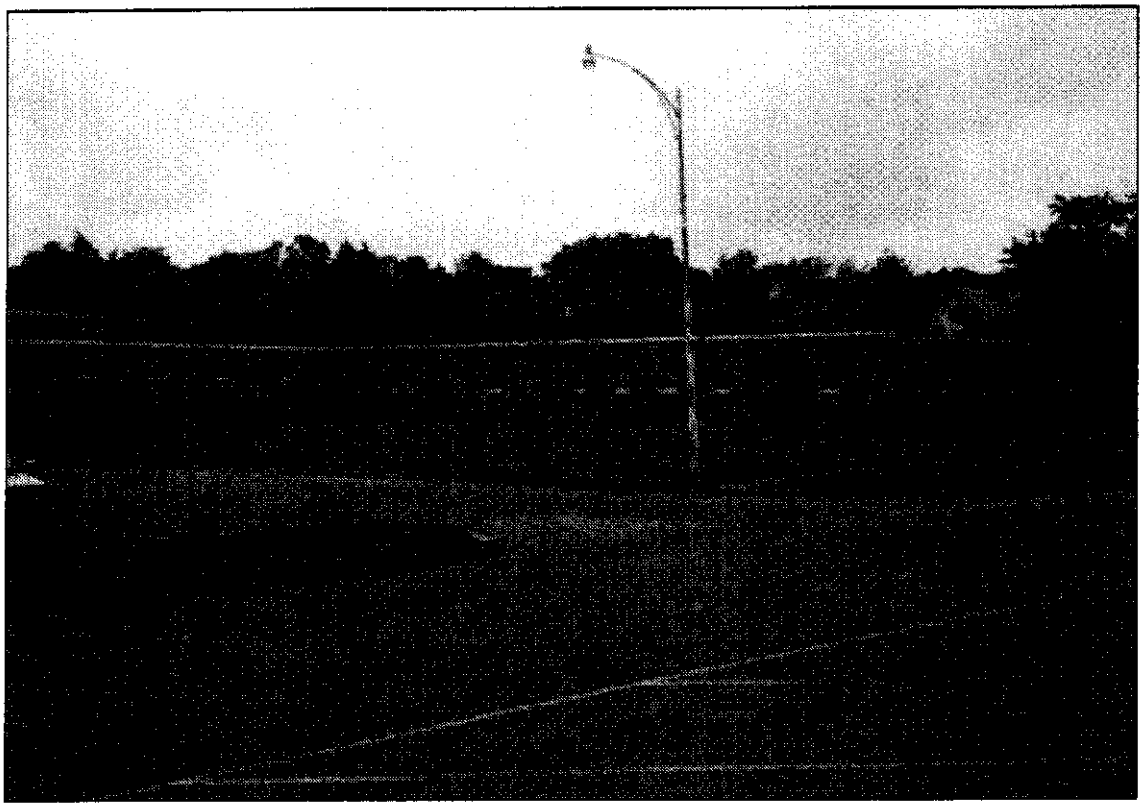


Figure 369. SSG Roy Clifton Scouten USARC Reserve Center, facing southwest.

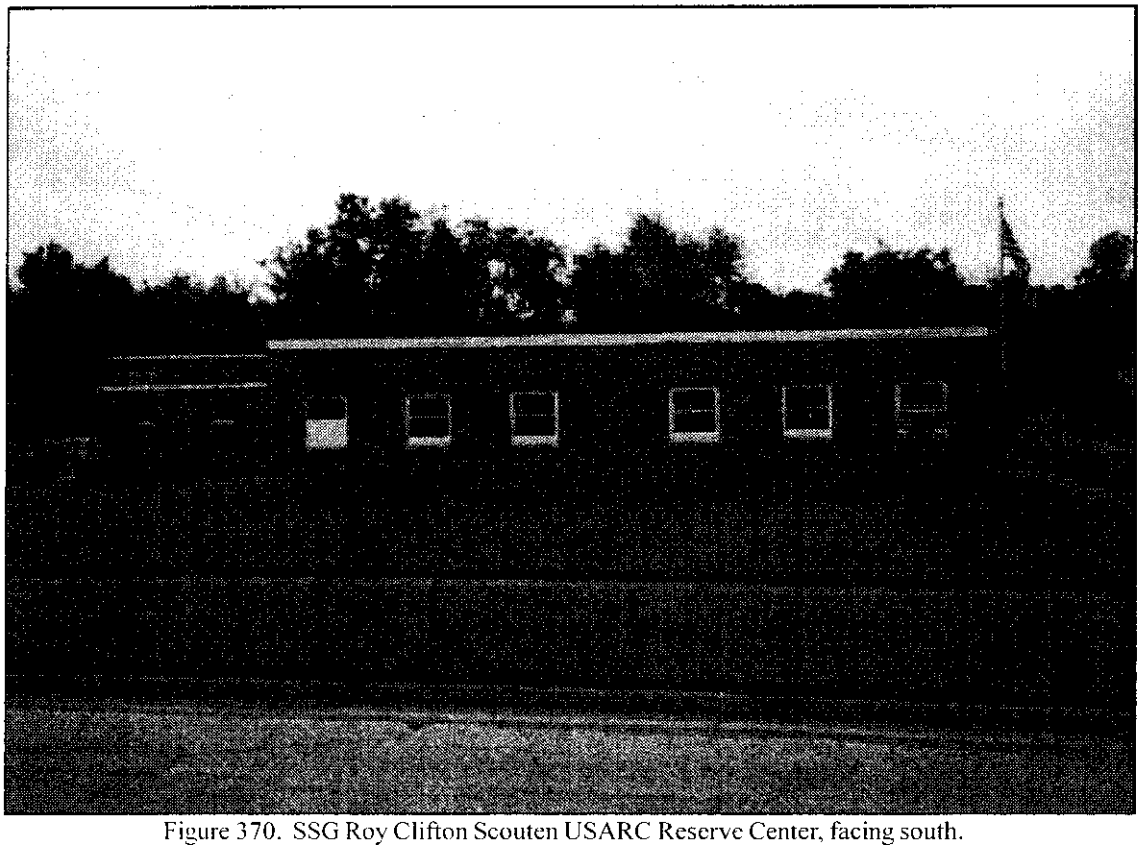


Figure 370. SSG Roy Clifton Scouten USARC Reserve Center, facing south.

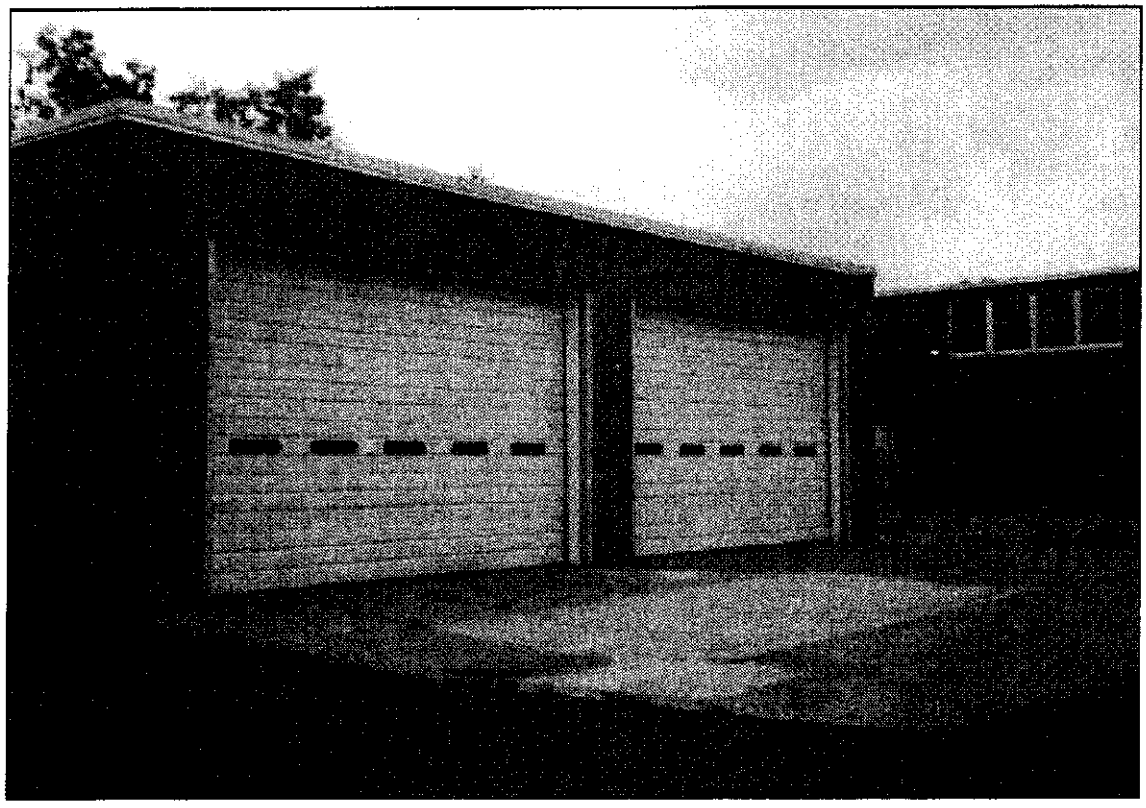


Figure 371. SSG Roy Clifton Scouten USARC Organizational Maintenance Shop, facing southwest.

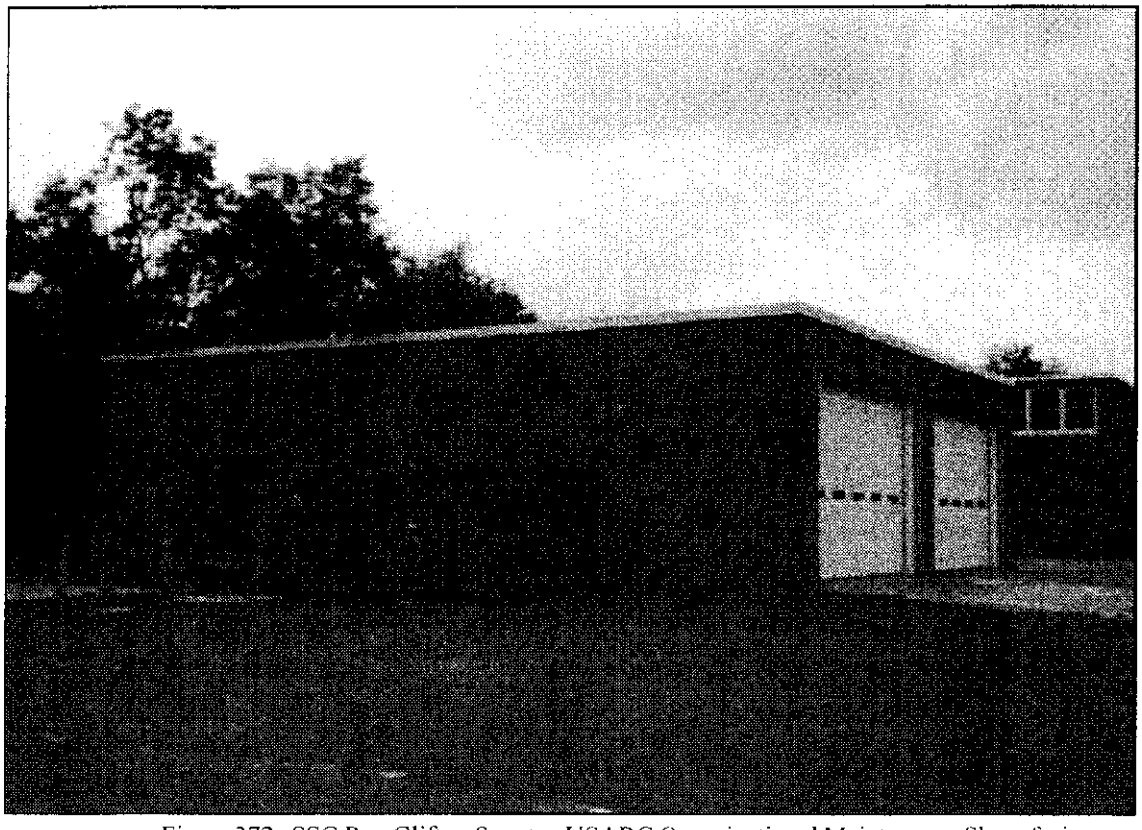


Figure 372. SSG Roy Clifton Scouten USARC Organizational Maintenance Shop, facing southwest.

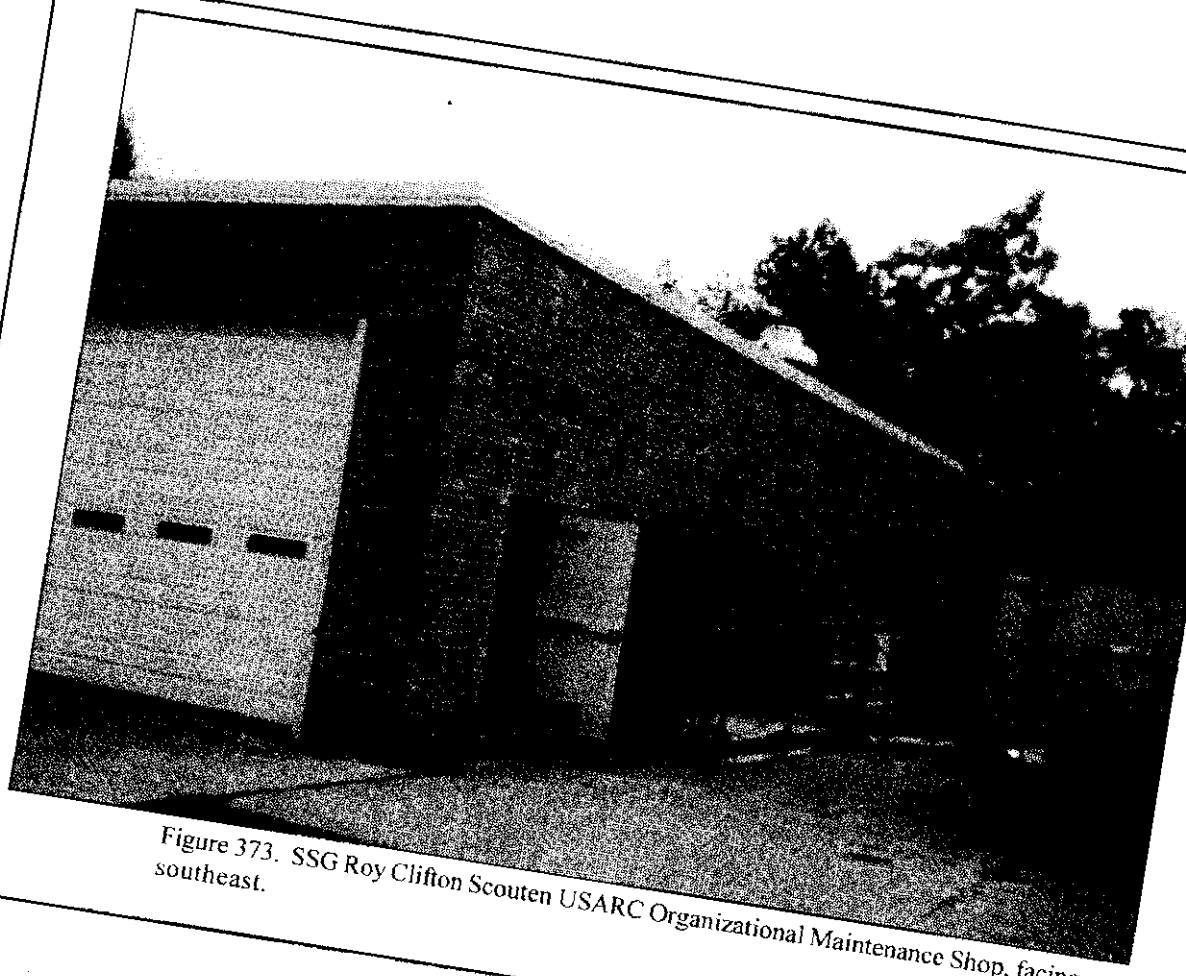


Figure 373. SSG Roy Clifton Scouten USARC Organizational Maintenance Shop, facing southeast.

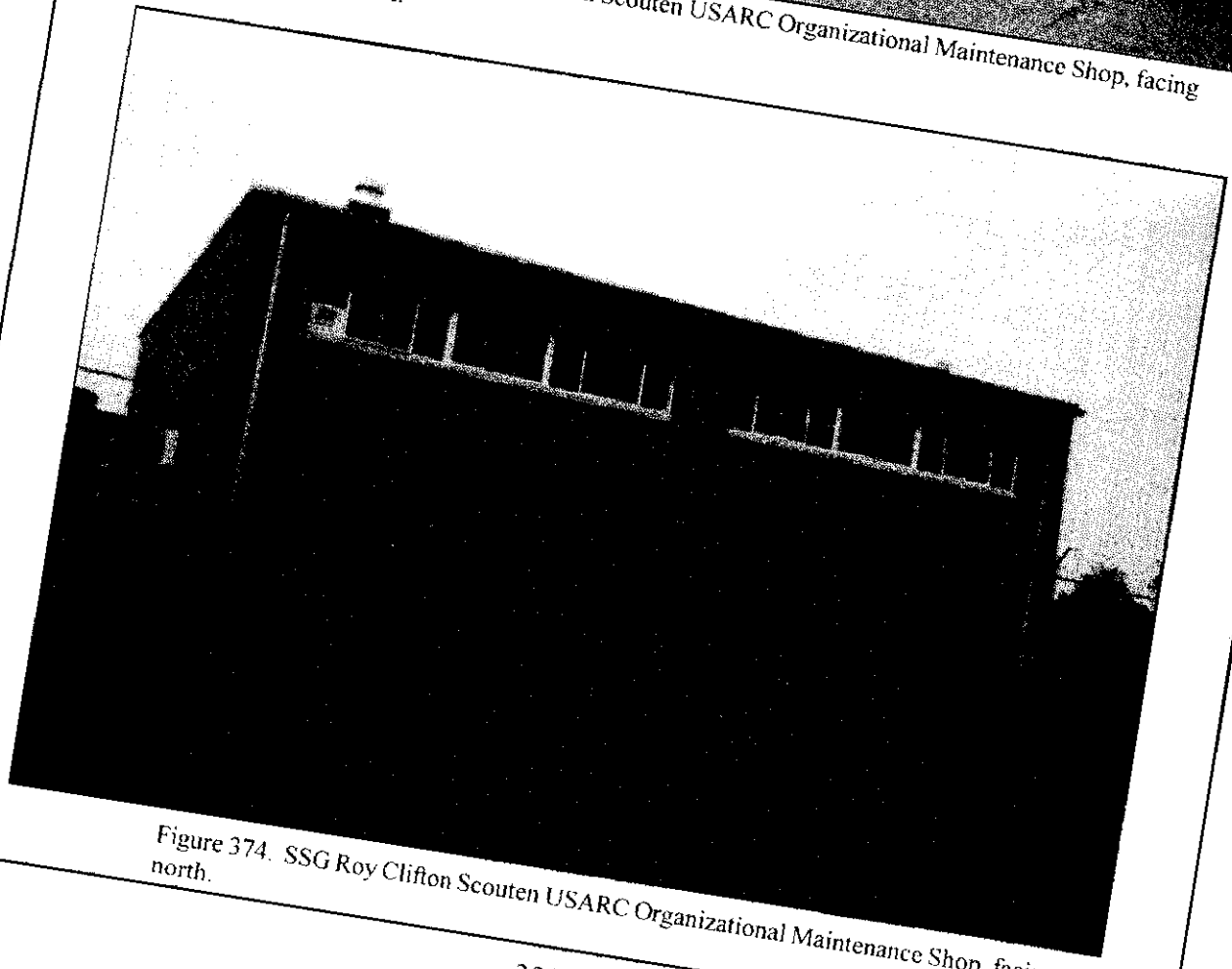


Figure 374. SSG Roy Clifton Scouten USARC Organizational Maintenance Shop, facing north.

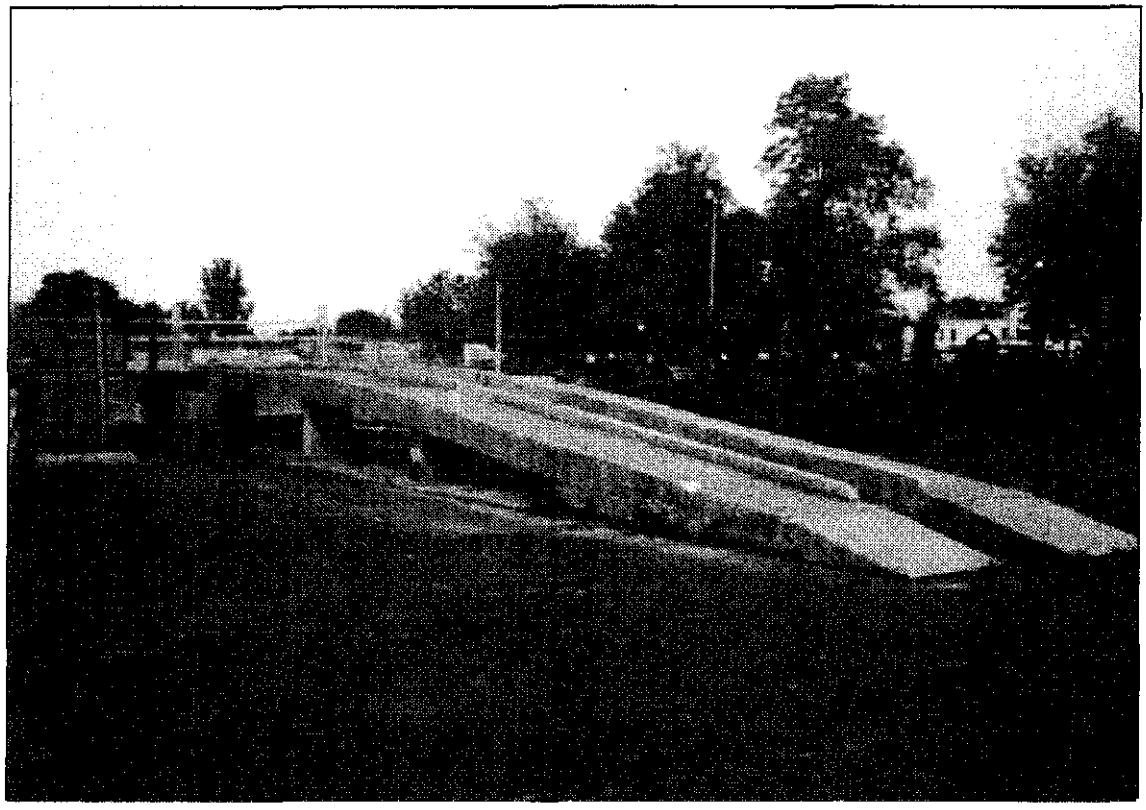


Figure 375. SSG Roy Clifton Scouten USARC Concrete Ramp, facing northeast.

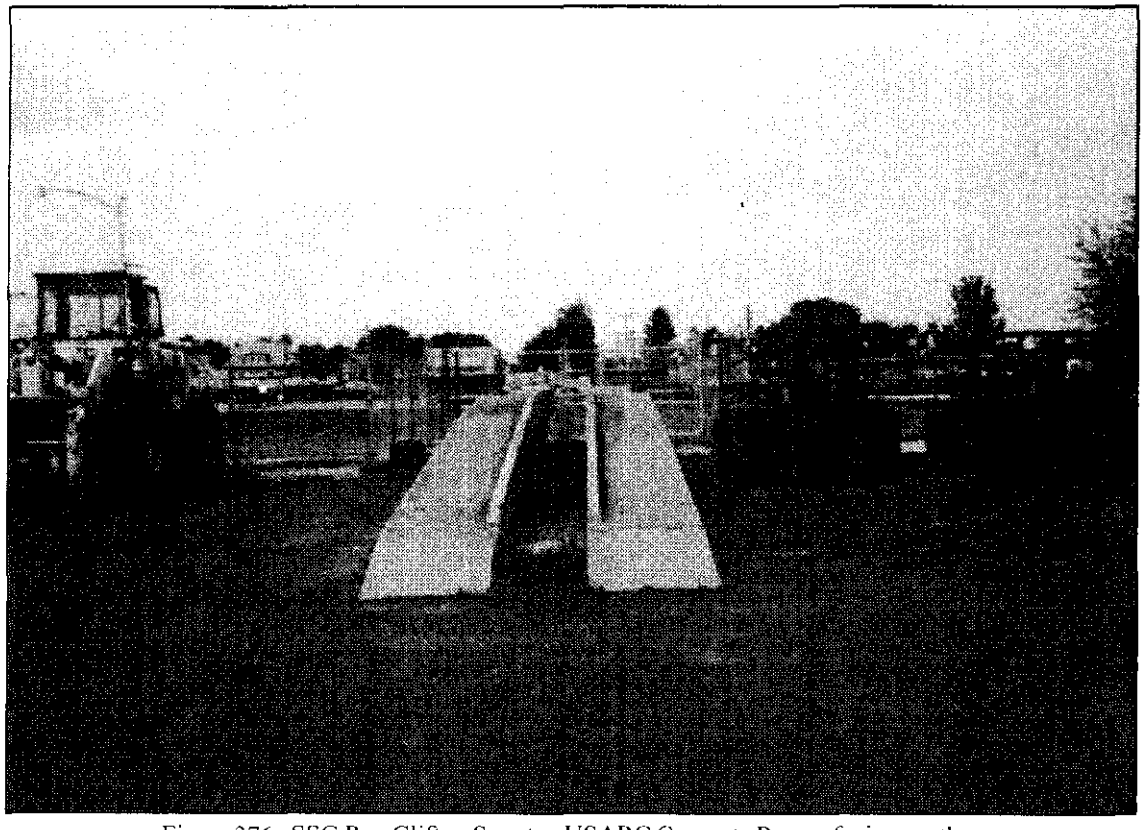


Figure 376. SSG Roy Clifton Scouten USARC Concrete Ramp, facing north.

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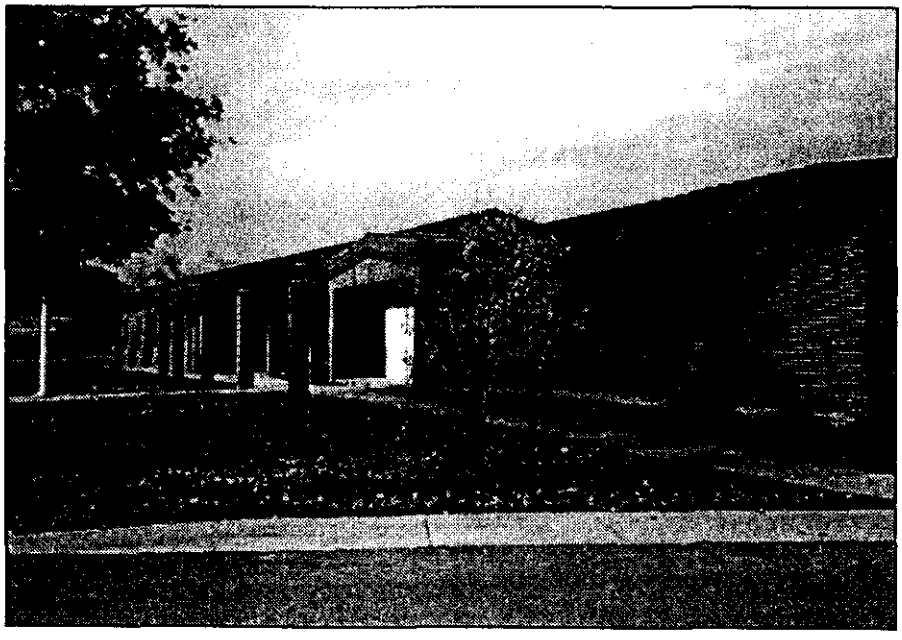
Ohio Section 110 Inventory Volume II
December 1999



Fort McCoy Archaeology Laboratory
Directorate of Training and Mobilization
Fort McCoy, WI 54656-5162

Ohio Section 110 Inventory
Volume II

Archaeological Resource Management Series
Reports of Investigation Number 16

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88th Regional Support Command
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Fort McCoy, Wisconsin
December 1998

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Andrea Den Otter
Fort McCoy Archaeology Laboratory
December 1999

Cover: LT Jacob Parrott USARC Reserve Center

Introduction

In 1996, the Fort McCoy Archaeology Laboratory contracted with the 88th RSC to conduct a historic properties inventory under the provisions of Section 110 of the NHPA. The inventory included all USARC facilities owned or leased by the 88th RSC in the state of Ohio. This report describes the recordation, evaluation methods, and results of the inventory. Additionally, this report documents the sources and informants used to evaluate the actions to nominate properties to the NHRP. Recommendations for NRHP reevaluation are also included.

Preliminary investigations included meetings with officials of the Ohio State Historic Preservation Office (SHPO) and documentary research conducted at the Ohio State Historical Society, regional county courthouses, and local libraries. Oral interviews were conducted with USARC personnel at each facility. The Ohio Archaeological Sites Index, maintained by the Ohio SHPO, was consulted to determine the location of any known archaeological sites located within a one-mile radius of each USARC facility. Fieldwork for the project was conducted during August-November 1997. All Ohio listings in the NRHP were reviewed prior to commencement of fieldwork for the inventory. Those properties on all USARC facilities that met the criteria for NRHP eligibility were examined and recorded to assess their potential for possible nomination to the NRHP.

Statement of Purpose

The Fort McCoy Archaeology Laboratory Section 110 inventory of the USARC facilities within the state of Ohio was conducted consistent with the *Secretary of the Interior's Standards and Guidelines for Identification and Evaluation* (*Standards*).

The primary goal of the NHPA, according to the *Standards*, is to "preserve prehistoric and historic resources throughout the nation for the inspiration and benefit of present and future generations." In fulfillment of this goal, governmental agencies, within the framework of their missions, are charged with administering federally owned, administered, or controlled prehistoric and historic resources in a spirit of stewardship, and caring for significant prehistoric and historic properties in ways that ensure long-them protection and integrity of those properties.

The *Standards* require agencies to identify, evaluate, and document their historic properties, and nominate them to the NRHP. According to the *Standards*, "identification, evaluation, and documentation of historic properties are critical in the long-term management of historic properties, as well as in program and project specific planning by a federal agency. The *Standards* also require that "the agency manages and maintains its historical properties in ways that preserve the properties historic, archaeological, architectural, or cultural values," and that "the agency considers historic properties in addition to its own when planning activities that may affect them." Agencies are also required under the *Standards* to develop "a process that identifies and evaluates historic properties in a timely fashion," and "a process that develops and implements agreements regarding the means by which adverse affects on historic properties will be considered." The documentation of historic properties, before they are substantially altered or demolished, and the placement of the documentation in an appropriate repository for future use and research, is also required.

In complying with the requirements of Section 110(a) (2) of the NHPA and the *Standards*, researchers from the Fort McCoy Archaeology Laboratory conferred with the Ohio SHPO regarding previous archaeological

or historical architectural investigations of U.S. Army Reserve Command properties within the State of Ohio. No information on previous archaeological or architectural documentation was found for the USARC facilities in Ohio. Discrepancies between existing documentary files about USAR buildings and structure and on-site recordation conducted by members of the Fort McCoy Archaeology Laboratory are recorded in detail within the individual facility sections of this report. All known archaeological sites within one-mile of the USARC facilities were also identified and documented. Historic themes established by the Ohio SHPO were followed in preparation of the historic context, and in identifying historic properties.

All fieldwork was conducted by Fort McCoy Archaeology Laboratory personnel who meet the *Secretary of Interior's Professional Qualification Standards* at 36 CFR61. The field recordation methods employed in the inventory follow accepted practices within the field of historic research and historic preservation. These included, but were not limited to, on-site evaluation and documentation of historic buildings and properties, review of all pertinent historical documentation of historic buildings and properties, review of all pertinent historical documentation, and interviews with facilities managers regarding the properties. Assessments of potential eligibility for the NRHP were made based upon the field research, on-site documentation and post inventory evaluation.

Factors That May Precipitate a Change in Status

The recommendations contained within this report are based upon the current legal ownership and physical conditions. Changes in the status of these properties may require a reevaluation of the property, or require additional investigations in compliance with Section 106 of the NHPA. Examples of changes that could necessitate a reevaluation of properties include, but are not limited to, demolition, demolition by neglect, construction, rehabilitation, or disposition.

Methodology

Members of the Fort McCoy Archaeology Laboratory conducted a formal literature and record search of each facility. The objective of this search was to establish the historical and archaeological context associated with each USARC. Searches conducted at local historical societies and municipal governments provided additional documentary and cartographic information relevant to the historic context of individual USARC facilities. Research was also conducted at the Ohio SHPO offices to obtain information relative to the location of all recorded archaeological sites within a one mile radius of each USARC facility. All existing archaeological sites were documented and evaluated in terms of their significance to USARC locations. A surface reconnaissance survey was conducted on the land associated with each USARC facility.

Architectural Study Methods

The architectural survey undertaken by members of the Fort McCoy Archaeology Laboratory was conducted using guidelines published by the Historic American Building Survey (HABS) and the Ohio SHPO. Data represented in this report was collected with methods that includes:

1) a literature review of the historic documents relating to the construction and maintenance of each building on the USARC facilities;

2) an architectural evaluation of the potential eligibility of each building on the USARC facilities;

3) a surface reconnaissance of land associated with each USARC facility.

The historic themes used to evaluate the historic contexts associated with the properties analyzed in this inventory were taken directly from the guidelines identified by the Ohio SHPO. The results of the historical, architectural, and surface surveys conducted by members of the Fort McCoy Archaeological Laboratory are described in the following sections of this report.

Historical Literature Review

The methodology for the Ohio Section 110 Inventory was designed to establish a historic context for each USARC facility to assess the potential eligibility of USARC buildings for nomination to the NRHP. In preparation for the documentation of each USARC facility, historic research was conducted by members of the Fort McCoy Archaeology Laboratory and included:

1) examination of real property records maintained by the 88th RSC;

2) examination of real property records located at each USARC facility (when available);

3) an interview with the facility manager at each USARC facility;

4) NRHP eligibility nominations filed with the Ohio SHPO (when applicable);

5) examination of the Archaeological Sites Index maintained by the Ohio SHPO;

6) examination of the historic documents housed at the Ohio State Historical Society, regional county courthouses, and local libraries;

7) examination of previous cultural resource, archaeological, architectural, and environmental surveys available about each USARC facility (when available).

Architectural Fieldwork

Historic research of buildings at each USARC facility was conducted to establish an initial database of the architectural styles that would be encountered during on-site documentation. On-site fieldwork consisted of producing in-depth textual descriptions that included:

1). Architect/Builder
2). Type of building
3). Date of construction
4). Date of acquisition
5). Architectural style

6). Foundation material
7). Number of bays
8). Plan shape
9). Wall construction
10). Roof type
11). Roof materials
12). Chimney construction
13). Chimney placement
14). Type and location of entrances
15). Type and location of fenestration
16). Relationship of all buildings on the facility
17). Integrity of each building
18). Potential threat to the buildings
19). Future research potential at the facility
20). Assessment of the potential eligibility of each building to the NRHP under Criteria A, B, C, and D

Photo documentation captured the exterior of each building at the Ohio USARC facilities, including unique architectural elements. Photos were recorded in 35 mm black and white and Kodak DC 50 digital format. Data collected during on-site documentation and assessments was compiled into the Ohio Section 110 report and entered into USARC databases maintained by the Fort McCoy Archaeology Laboratory.

The Ohio Section 110 Inventory Report

An on-site assessment of the historic, architectural, and archaeological significance was accomplished to determine if buildings and/or districts on each USARC facility were potentially eligible for nomination under Criteria A, B, C, and D to the NRHP. The Ohio Section 110 Inventory is intended to provide the Commander, 88th RSC, with a comprehensive overview of all USARC properties in Ohio. Specifically, this report provides architectural, historic, archaeological, and security information to aid in the management of the physical resources located on USARC facilities owned or leased by the 88th RSC. Data contained in the individual sections of this report were recorded and presented in accordance with standards established by HABS and *the Secretary of the Interior's Guidelines for Section 110 of the NHPA.*[1]

Information included in discussions of individual USARC facilities may be repeated in the introduction and discussion sections. Information contained in the individual USARC facility sections include:

1). Facility Identification Number
2). Facility Name
3). Facility Address
4). USGS 7.5 Minute Series Quadrangle Map
5). UTM coordinates
6). Present Ownership/Occupant
7). Setting & Landscape
8). Archaeological Resources
9). Historical Information
10). Architectural Information
11). Security

12). Building Descriptions
13). Eligibility
14). Recommendations
15). Sources
16). Notes

National Register Criteria of Evaluation

Each building on the USARC facilities was assessed for its potential eligibility to the NRHP as defined in 36 CFR Part 60. The criteria used to evaluate the eligibility of properties for potential nomination to the NRHP assesses the significance of each facility in terms of its contribution to American history, historic persons, architecture, engineering, and archaeological research. The NRHP criteria and criteria considerations include:

Criteria:

A. That are associated with events that have made a significant contribution to the broad patterns of our history; or

B. That are associated with the lives of persons significant in our past; or

C. That embody the distinctive characteristics of a type, period, or method of construction or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or

D. That have yielded, or may be likely to yield, information important in prehistory or history.[2]

Criteria Considerations:

A. A religious property deriving primary significance from architectural or artistic distinction or historical importance; or

B. A building or structure removed from its original location but which is significant primarily for architectural value, or which is the surviving structure most importantly associated with the historic person or event; or

C. A birthplace or grave of a historical figure of outstanding importance if there is no other appropriate site or buildings directly associated with his productive life; or

D. A cemetery which derives its primary significance from graves of persons of transcendent importance, from age, from distinctive

design features, or from association with historic events; or

E. A reconstructed building when accurately executed in a suitable environment and presented in a dignified manner as part of a restoration master plan, and when no other building or structure with the same association has survived; or

F. A property primarily commemorative in intent if design, age, tradition, or symbolic value has invested it with its own historical significance;

G A property achieving significance within the past 50 years if it is of exceptional importance.[3]

Historic Background

The European-American history of Ohio spans the past 330 years. During this time the physical character of the state changed from that of a sparsely settled, densely forested land, to a heavily populated state of large urban centers interspersed with small communities and farms. The Ohio Historic Preservation Office's research themes for Cultural Resources Management will be followed in this report.

History of Ohio

A French explorer, Nicolas Sanson d'Abbeville, mapped Lake Erie as early as 1650[4]. Rene Robert Cavelier Sieur de La Salle is thought to have discovered the Ohio River in 1669. Aside from the major waterways, the area that was to become Ohio was bypassed during the initial wave of French exploration to avoid conflict with the Iroquois Confederacy.[5] The French recognized the economic importance of the region, but were unable to establish effective control over such a vast area.

Beginning in the late 1600s and early 1700s, British explorers and trappers began to enter Ohio from Pennsylvania and Virginia. Both British and French crowns claimed the area; the French by right of discovery and the British by reliance on the traditional venue of royal charters. Competing French and British interests continued until 1752 when open warfare began in 1752. French-Canadians and Indians attacked and destroyed a Miami village with allegiance to Britain near the town of Pickawillany.[6] Although the French tried to maintain a viable national presence in Ohio, the final outcome of the French and Indian War[7] sealed the fate of the region when France abandoned the territory with the Treaty of 1763.

The period of official British control over the area was brief. Following the Treaty of 1763, the British Crown attempted to control trade with various Indian and French groups. The British soon found, however, that they also had a problem with increasing American encroachment into the region, resulting in conflict with the resident Native American tribes. In 1763, the British Crown issued a decree that forbade Americans from settling beyond the Appalachians and like most British decrees, was largely ignored by the American frontiersmen. At the start of the American Revolution, British control of Ohio was tenuous at best. Although large delegations of Native Americans signed a neutrality treaty at Fort Pitt in September 1775, by 1777, cross-border raids had resulted in open conflict between the tribes and American settlers, with the Native Americans increasingly aligned with the British[8]. Ohio was the scene of several skirmishes during the war.

Mansfield, Ohio

SSG Roy Clifton Scouten USARC

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Historical Information:	The SSG Roy Clifton Scouten USARC was constructed in 1958.[2] There appear to have been no significant additions or alterations to the buildings since their original construction.
Security:	Security measures at the SSG Roy Clifton Scouten USARC include chain-link fencing topped with barbed wire surrounding a military vehicle parking area, the north, east and west sides of the Organizational Maintenance Shop, and a section of the east wall of the Reserve Center's drill hall. High intensity lighting is also present to illuminate the military and civilian parking areas.

Architectural Information:	The SSG Roy Clifton Scouten USARC consists of two concrete block buildings with red brick veneers. The buildings do not appear to exhibit historical or architectural character or merit that significantly contributes to the historic context of the period associated with their construction.
Building Descriptions:	**Reserve Center** (MN001) The Reserve Center functions as an administrative and drill facility for the SSG Roy Clifton Scouten USARC. Constructed in 1958[3], it is a multiple-level irregular shaped building consisting of a one-story administration section and a two-story drill hall connected by a one-story, L-shaped enclosed corridor. The structure rests upon a concrete foundation with concrete block walls and a red brick veneer. A pair of metal pedestrian doors with single light fixed windows and three one-over-one double-hung windows with plain slip sills are recessed into the west side of the building (Figures 366 & 367). Additional entrances include single and paired metal pedestrian doors on the south and east walls. A metal overhead retractable bay door is located on the east wall (Figure 368). Fenestrations include a series of one-over-one light double-hung windows with plain slip sills and two light sliding double-hung windows with plain slip sills around the perimeter of the building (Figure 369). A series of one-over-one light fixed and awning ribbon windows with continuous plain slip concrete sills are located on the east side of the drill hall near the roof eaves. Two metal vents are located within the brick veneer on the southeast corner of the building. A flat roof covers the structure (Figure 370). **Organizational Maintenance Shop** (MN011) The Organizational Maintenance Shop functions as a vehicle maintenance facility for the SSG Roy Clifton Scouten USARC. Constructed in 1958[4], it is a one-story rectangular building that rests upon a concrete foundation with concrete block walls and a brick veneer. Two metal overhead retractable bay doors are located on north side of the building (Figure 371). Additional entrances include metal pedestrian with concrete steps are located on the east and west walls (Figures 372 & 373). Fenestrations include a pair of one-over-one light fixed and awning ribbon windows with continuous plain slip concrete sills along the south wall near the roof eaves (Figure 374). A flat roof covers the structure. A concrete ramp is located northeast of the Organization Maintenance Shop and is used for vehicle maintenance activities undertaken at the facility (Figures 375 & 376).

Eligibility:	None of the buildings located at the SSG Roy Clifton Scouten USARC meet the criteria for the National Register of Historic Places (NRHP), under Criterion A, B, C, or D, and thus are not recommended for nomination to the NRHP. A historic documentary and architectural investigation conducted at the facility determined there is no direct relationship between the facility and prehistoric or historic events in the Mansfield area (criterion A), there is no association with significant persons involved in prehistoric or historic events (criterion B), buildings on the facility are not architecturally or technologically significant (criterion C), and the facility is unlikely to hold future research potential (criterion D).
Recommendations:	No additional review under Section 110 is recommended until the existing buildings at the SSG Roy Clifton Scouten USARC reach the 50 year eligibility requirement for the NRHP in 2008, or unless specific undertakings require compliance with Section 106 of the National Historic Preservation Act (36 CFR 800).
Sources:	"Dedication Plaque: SSG Roy Clifton Scouten USARC 1958." SSG Roy Clifton Scouten USARC, Mansfield, Ohio.[5] "Environmental Assessment for Construction of a New Reserve Center at Mansfield, Ohio." 83rd RSC Engineering and Housing Division, Fort Knox, Kentucky. July 1986. "Environmental Audit of Scouten U.S. Army Reserve Center." Lexington, Kentucky: Howard K. Bell, Consulting Engineers, Inc. 1991. "Mansfield North Quadrangle." USGS 7.5 Minute Series. Denver, Colorado: United States Geological Survey. 1961, photorevised 1982, photoinspected 1984. "Real Property Detail report Criteria: Total Inventory." 88th RSC DSCEN Real Estate Division. March 1998.
Notes:	[1] "Environmental Assessment for Construction of a New Reserve Center at Mansfield, Ohio," Fort Knox Engineering and Housing Division, Fort Knox, Kentucky, July 1986, p. 2, and "Real Property Detail report Criteria: Total Inventory," 88th RSC DSCEN Real Estate Division, March 1998, p. 24. A construction proposal by members of the Fort Knox Engineering and Housing Division state that 3.55 acres of land are associated with the SSG Roy Clifton Scouten USARC. However, records maintained by the 88th RSC DSCEN Real Estate Division state that 3 acres of land are

associated with the SSG Roy Clifton Scouten USARC. Fort McCoy Archaeology Laboratory investigators theorize that that size of the parcel of land at the facility is most likely 3.55 acres. Copies of the above reports are on file at the 88th RSC DSCEN Real Estate Division, Fort Snelling, Minnesota.

[2] "Dedication Plaque," SSG Roy Clifton Scouten USARC, 1958. The dedication plaque located in the foyer of the Reserve Center on the SSG Roy Clifton Scouten USARC states the facility was dedicated to the memory of SSG Roy Scouten in 1958. Fort McCoy Archaeology Laboratory investigators theorize that the buildings at the facility were completed the same year as the dedication.

[3] Ibid.

[4] Ibid.

[5] The "Dedication Plaque" is located on the interior wall of the Reserve Center foyer at the SSG Roy Clifton Scouten USARC.

Mansfield North Quadrangle and Mansfield South Quadrangle, USGS 7.5 Minute Series

Figure 364. Location of the SSG Roy Clifton Scouten USARC.

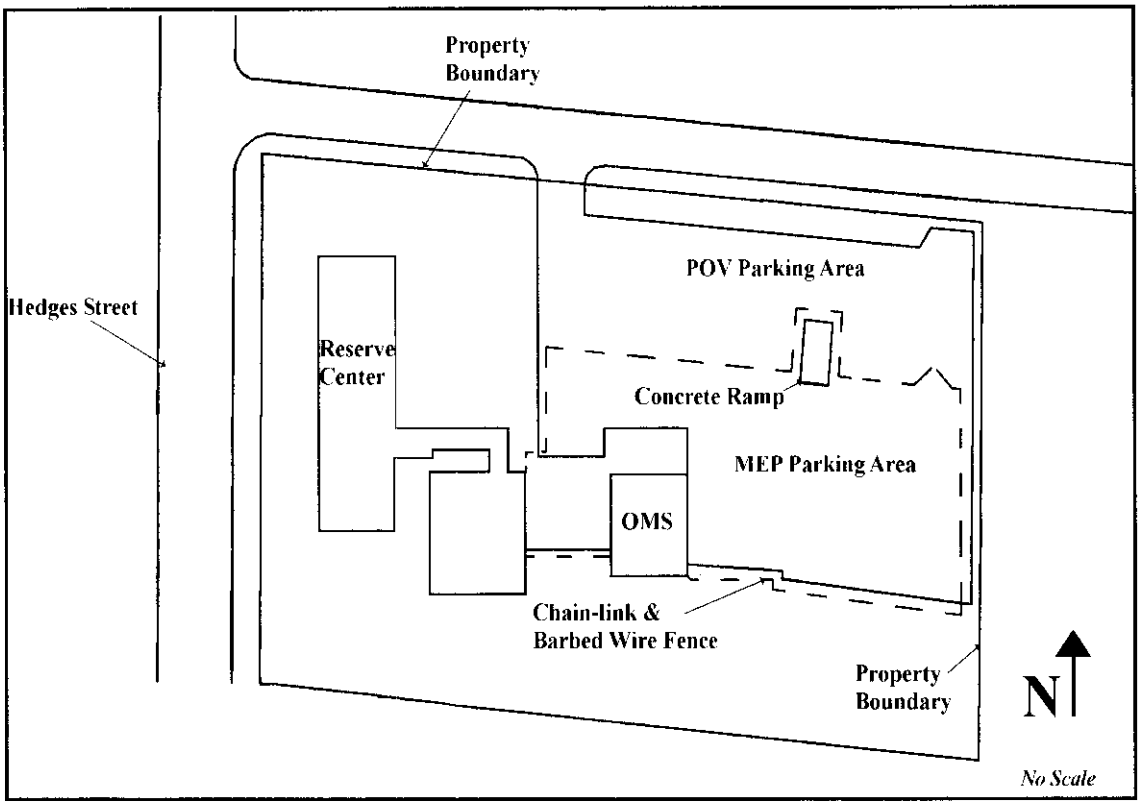


Figure 365. Map of the SSG Roy Clifton Scouten USARC (map modified from "Environmental Audit of Scouten U.S. Army Reserve Center." Howard K. Bell, Consulting Engineers, Inc., Attachment No. 1).

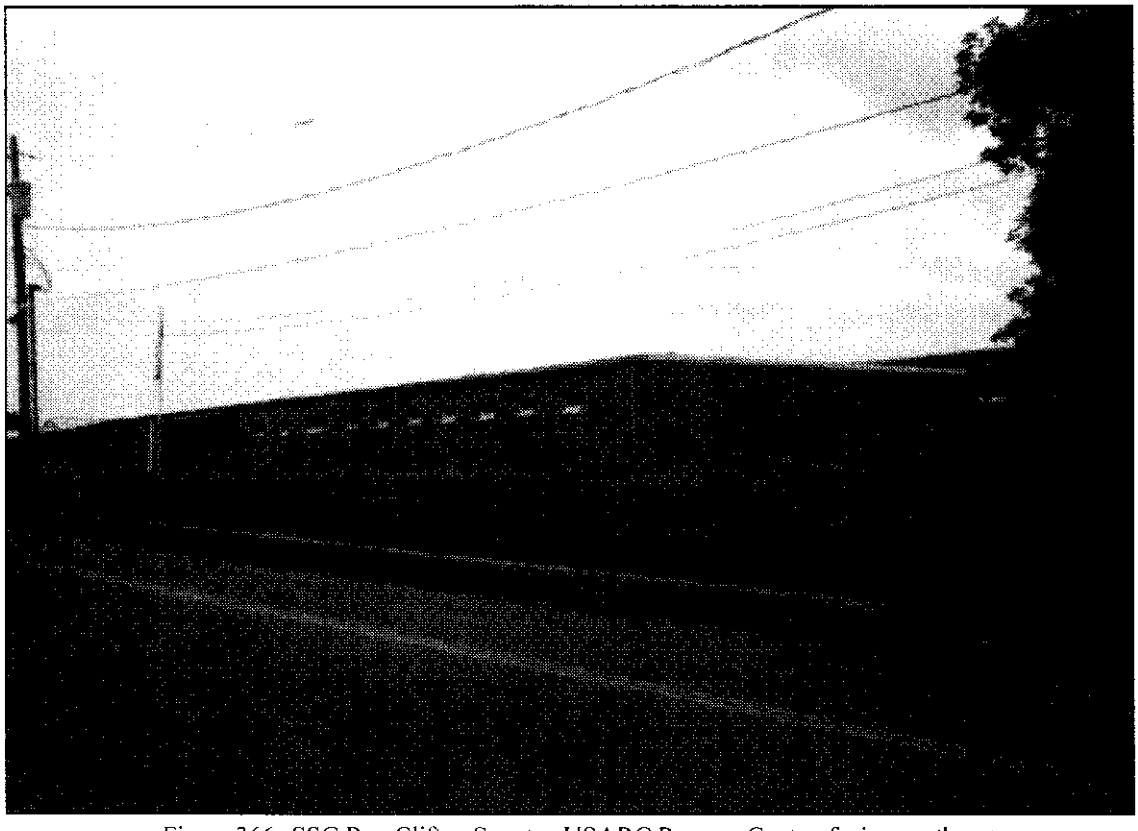


Figure 366. SSG Roy Clifton Scouten USARC Reserve Center, facing northeast.

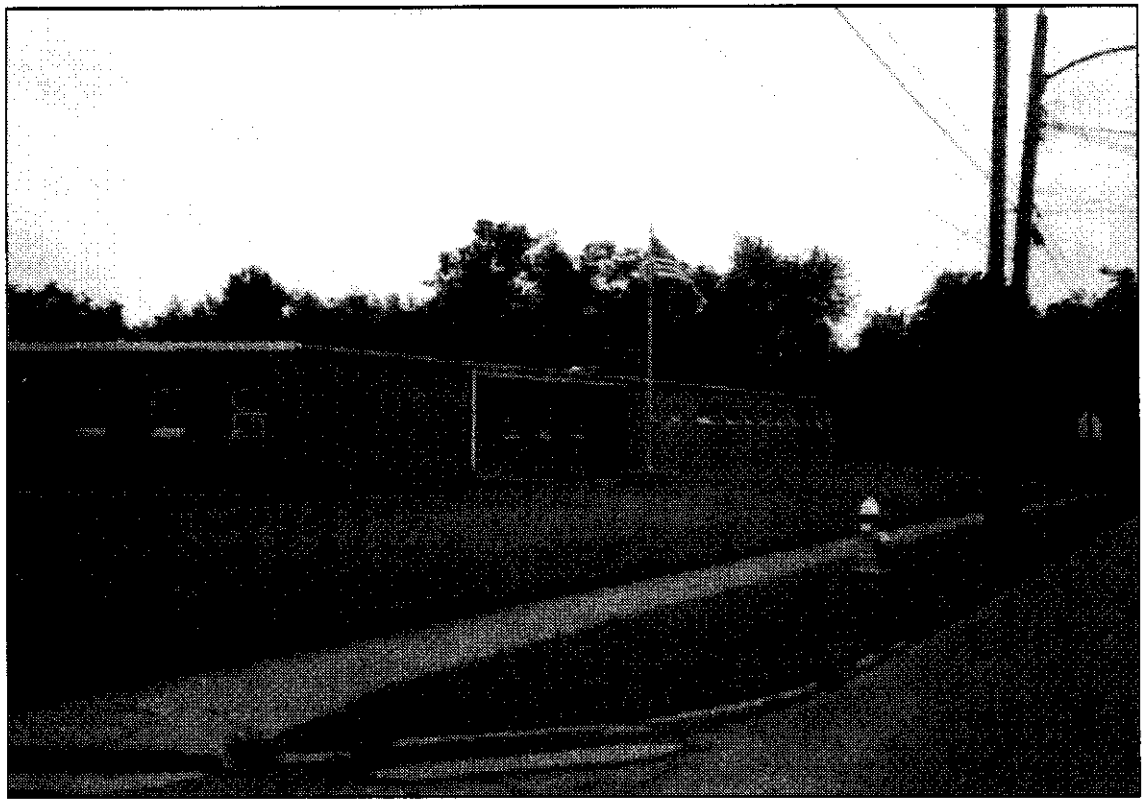


Figure 367. SSG Roy Clifton Scouten USARC Reserve Center, facing southeast.

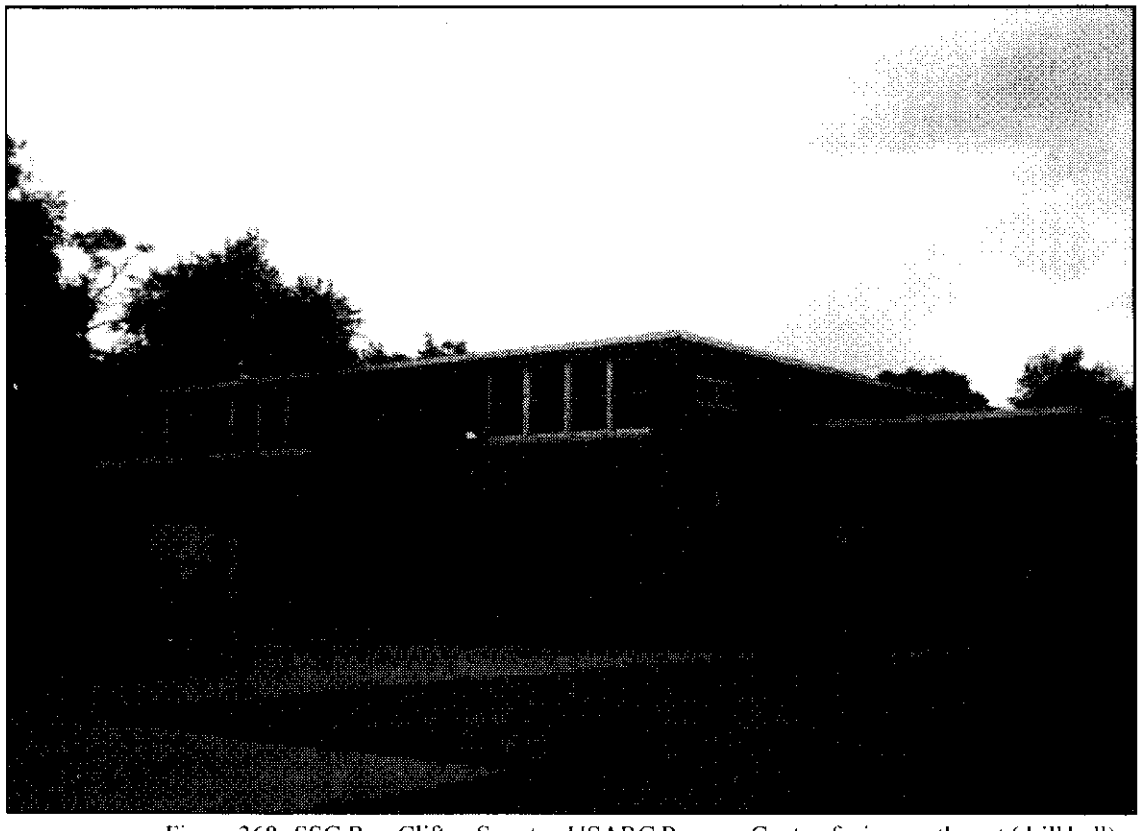


Figure 368. SSG Roy Clifton Scouten USARC Reserve Center, facing southwest (drill hall).

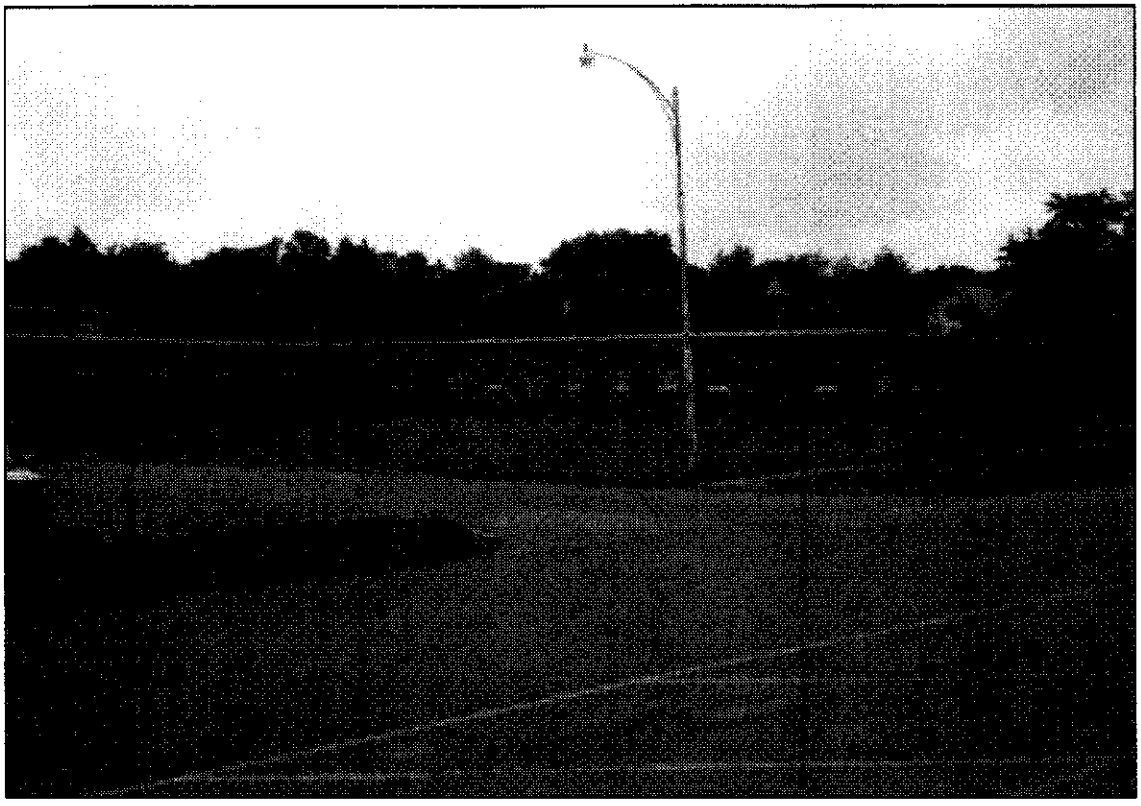


Figure 369. SSG Roy Clifton Scouten USARC Reserve Center, facing southwest.

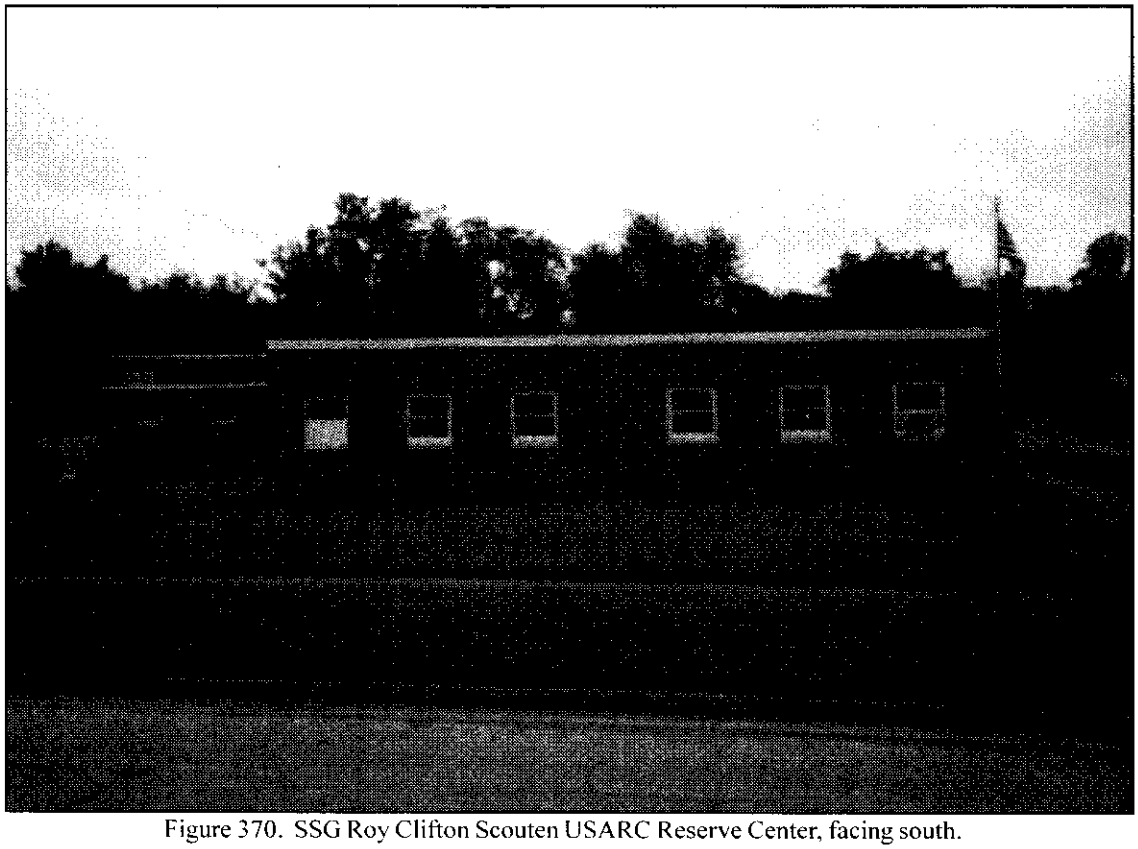


Figure 370. SSG Roy Clifton Scouten USARC Reserve Center, facing south.

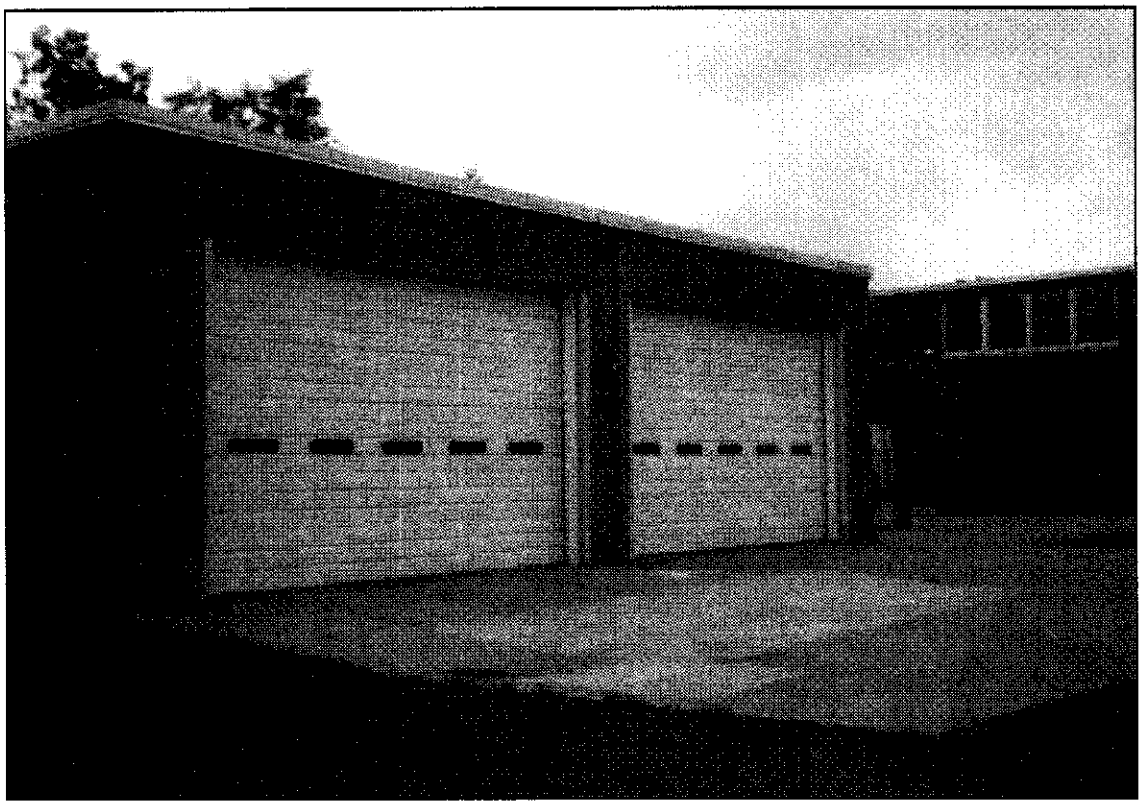


Figure 371. SSG Roy Clifton Scouten USARC Organizational Maintenance Shop, facing southwest.

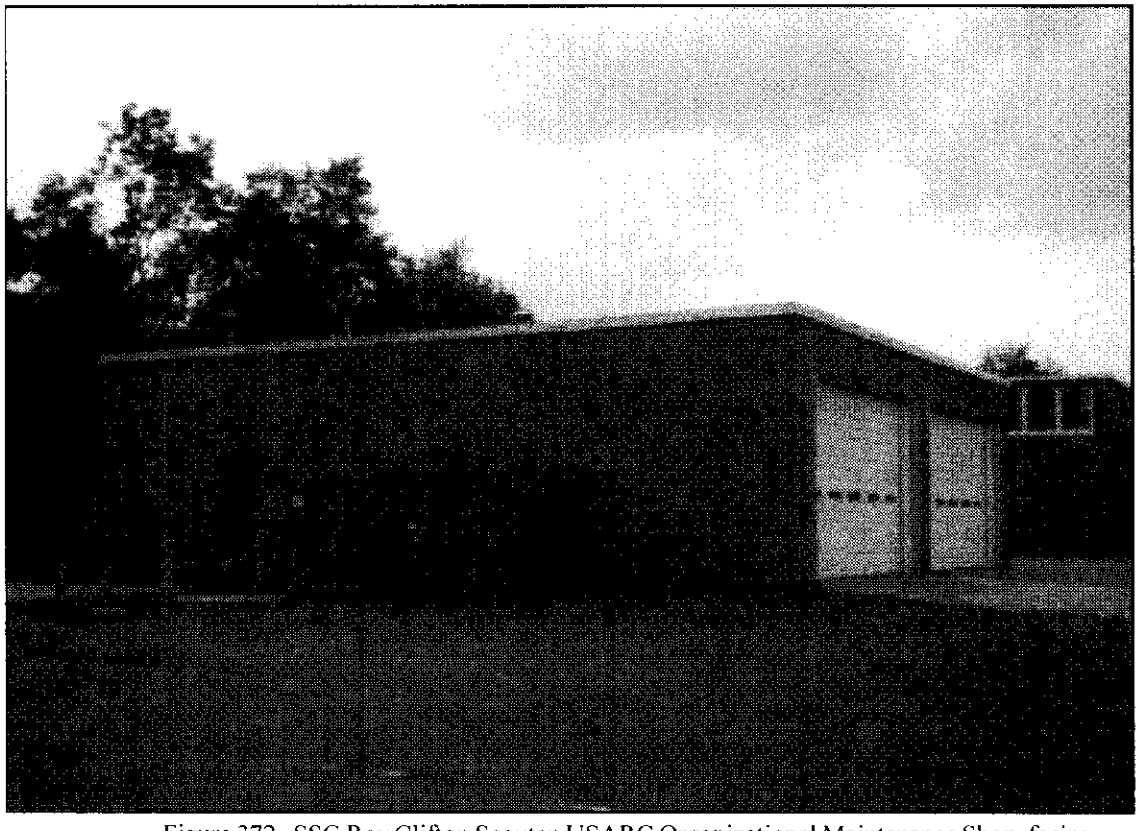


Figure 372. SSG Roy Clifton Scouten USARC Organizational Maintenance Shop, facing southwest.

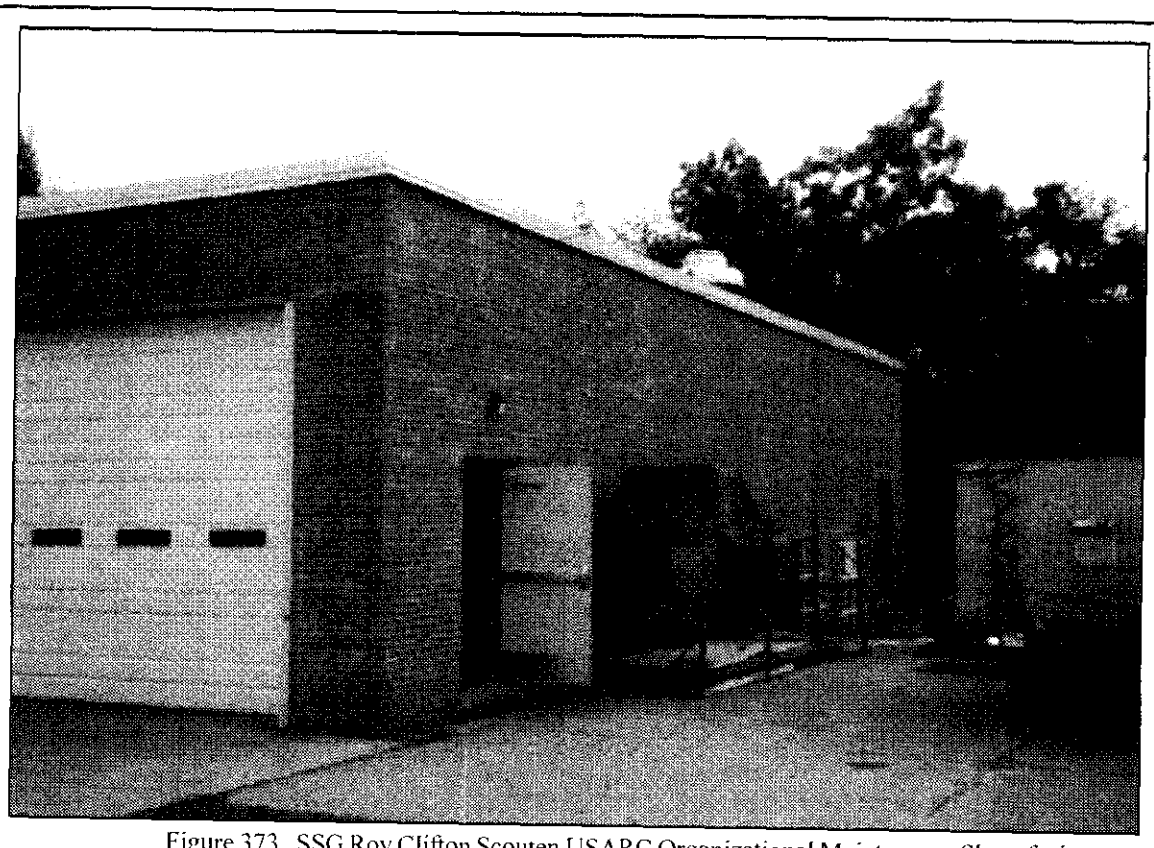


Figure 373. SSG Roy Clifton Scouten USARC Organizational Maintenance Shop, facing southeast.

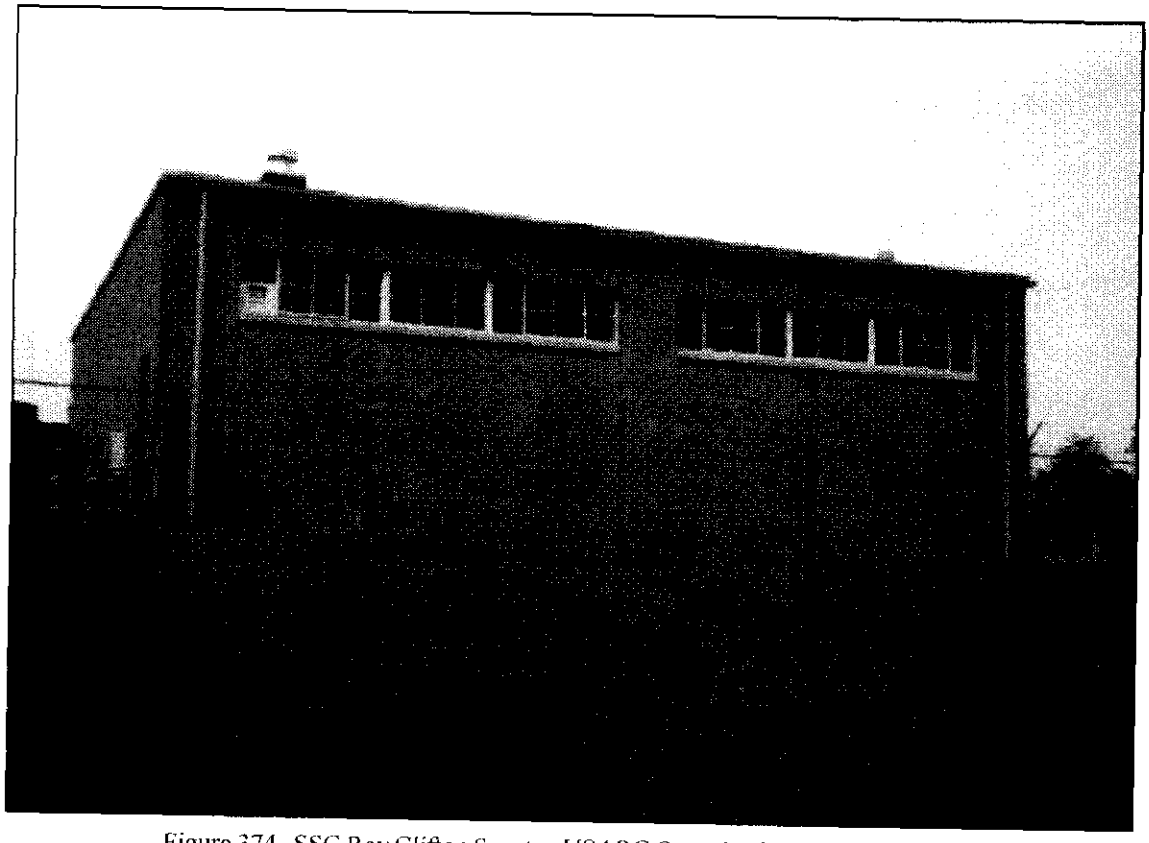


Figure 374. SSG Roy Clifton Scouten USARC Organizational Maintenance Shop, facing north.

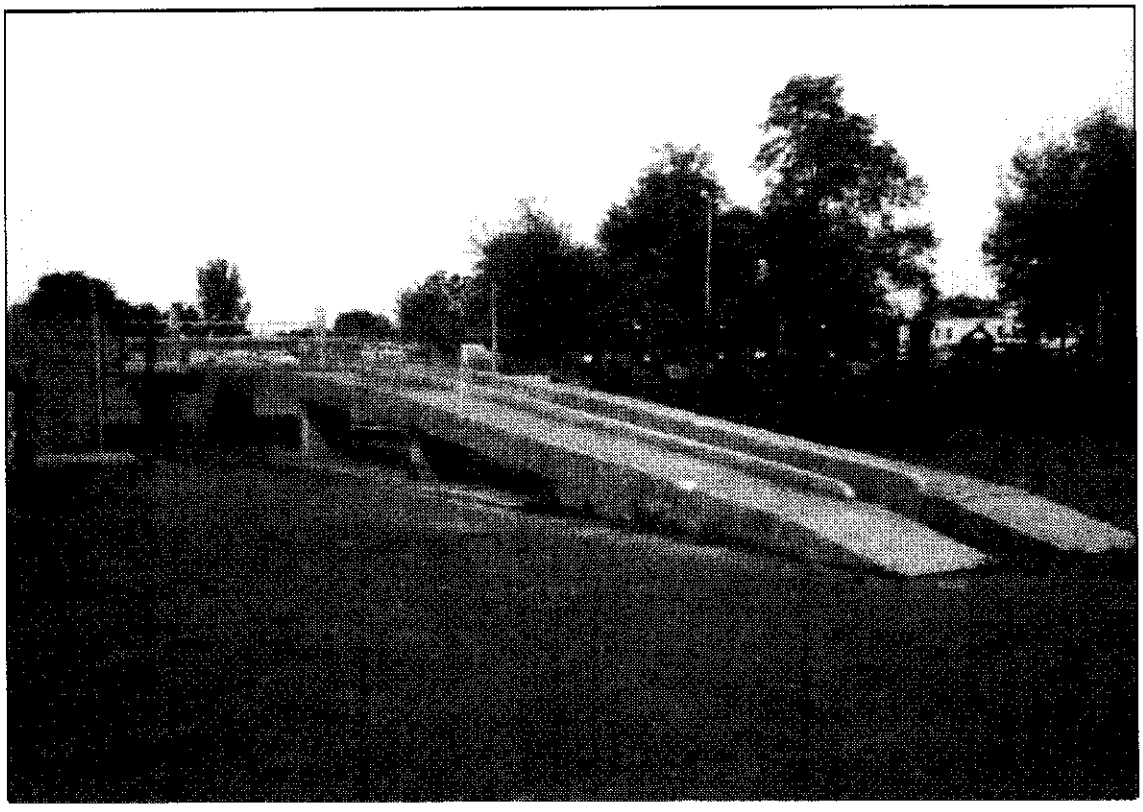


Figure 375. SSG Roy Clifton Scouten USARC Concrete Ramp, facing northeast.

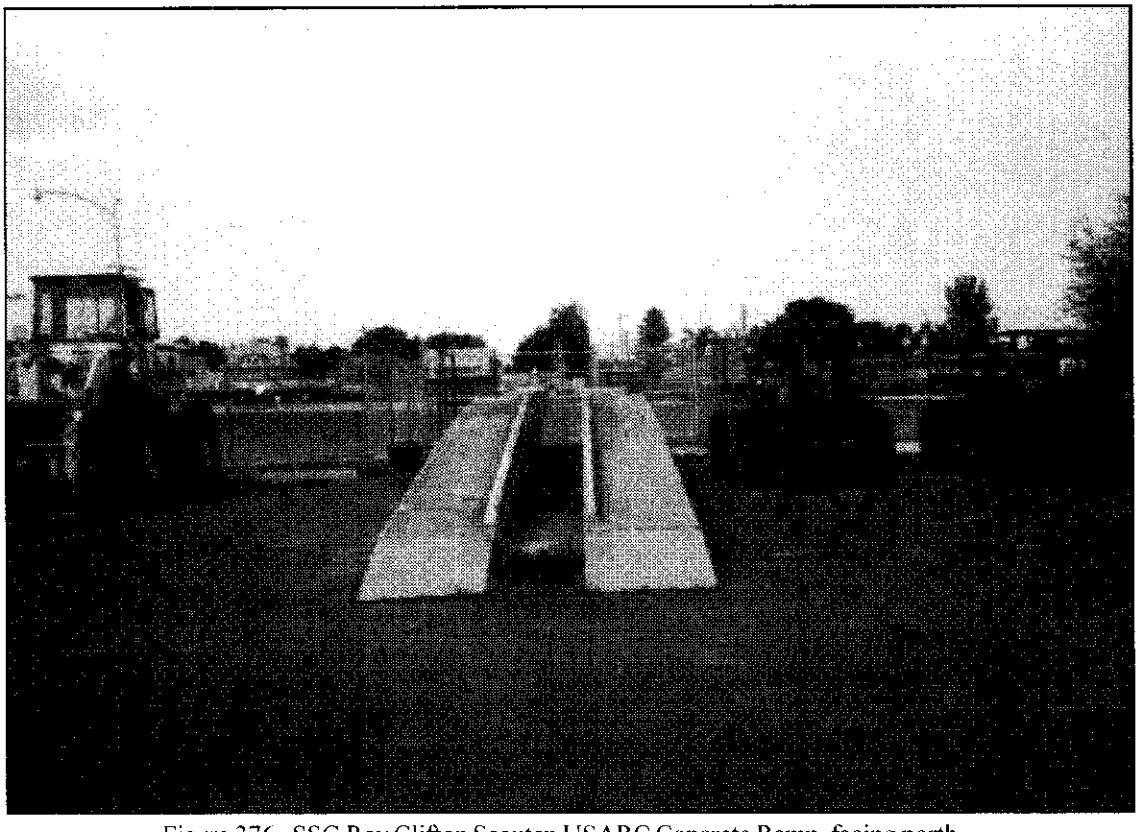


Figure 376. SSG Roy Clifton Scouten USARC Concrete Ramp, facing north.

TABLE 1-1
SUMMARY OF FINDINGS

Assessment 1 for:
INSTALLATION: SCOUTEN USAR CENTER Fiscal Year: 2000
FFID: OH-2104OH037

SECTION NO.	TITLE	REGULATORY I	REGULATORY II	REGULATORY HS	MANAGEMENT POS	MANAGEMENT III	MANAGEMENT HS	TOTAL
A	Air Emissions	0	0	0	0	1	0	1
C	Cultural Resources	0	0	0	0	0	0	0
HM	Hazardous Materials	0	0	0	0	0	0	0
HW	Hazardous Waste	1	0	2	0	0	0	3
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	0	0	0
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	0	0	0	0	0
WA	Wastewater	0	0	0	0	0	0	0
WQ	Water Quality	0	0	0	0	0	0	0
	TOTALS	1	0	2	0	3	0	6

Data File Name Prefix: C:\ECAS\TEMP\OH037
Date Summary Report Produced: 11/22/0

A.1.3.A #1 III ARMY/DOD FINDING Air Emissions

FINDING ID: CMP001
MANUAL QUESTION NUMBER: A-001-003-A
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: FACILITY RECORDS
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: No air emissions inventory was available in facility records.

CRITERIA: Preventive Medicine personnel at each installation are required to conduct and maintain an up-to-date emissions inventory listing all stationary sources of air pollution and inspect stationary air pollution sources periodically to assess compliance with applicable standards (AR 40-5, para 11-4b and 200-1, para 1-25c(1)).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): CONTACT 88TH RSC TO HAVE AIR EMISSIONS INVENTORY CONDUCTED.

STATUS OF CORRECTION:

********** INSTALLATION'S RESPONSE: **********

1) CORRECTIVE ACTION (CA) SELECTED:_____
_____
_____
_____
2) CURRENT STATUS OF THE CA:_____
3) ARE ADDED DETAILS OR COST DATA NEEDED TO DESCRIBE THIS CA?: Y__ N__
EXPLAIN:_____
_____
_____
4) ESTIMATED COMPLETION DATE FOR CA:_____
5) REVIEWER'S REMARKS:_____
_____
_____
_____

NAME/OFFICE/PHONE:_____ DATE:_____

HW.3.1 #1 I STATE FINDING Hazardous Waste

FINDING ID: CMP004
MANUAL QUESTION NUMBER: HW-003-001
FINDING CATEGORY: CLASS I
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: INSIDE AND ADJACENT TO HAZ MAT BUILDING
IFS FACILITY NUMBER:
FACILITY TYPE:

FINDING DESCRIPTION: 2 EA. 55 GAL. AND 1 EA. 40 GAL UNMARKED DRUMS STORED ADJACENT TO HAZ MAT BUILDING. ONE OF THE 55 GAL. DRUMS WAS FULL OF AN UNKNOWN LIQUID. THE OTHER TWO DRUMS APPEARED TO CONTAIN A SMALL AMOUNT OF RAIN WATER. 1 EA. 55 GAL. UNMARKED DRUM STORED IN THE HAZ MAT BUILDING. IT APPEARED TO CONTAIN USED MOTOR OIL.

CRITERIA: Installations/CW facilities are required to comply with

state and local regulations concerning hazardous waste management (EO 12088, Section 1-1; FFCA, Section 102).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): PROPERLY LABEL ALL HAZARDOUS WASTE CONTAINERS.

STATUS OF CORRECTION:

********** INSTALLATION'S RESPONSE: **********

1) CORRECTIVE ACTION (CA) SELECTED:_____
_____
_____
_____
2) CURRENT STATUS OF THE CA:_____
3) ARE ADDED DETAILS OR COST DATA NEEDED TO DESCRIBE THIS CA?: Y__ N__
EXPLAIN:_____
_____
_____
4) ESTIMATED COMPLETION DATE FOR CA:_____
5) REVIEWER'S REMARKS:_____
_____
_____
_____

NAME/OFFICE/PHONE:_____ DATE:_____

HW.15.5 #1 HS GMP FINDING Hazardous Waste

FINDING ID: CMP005
MANUAL QUESTION NUMBER: HW-015-005
FINDING CATEGORY: HEALTH/SAFETY
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: HAZARDOUS MATERIAL STORAGE BUILDING
IFS FACILITY NUMBER:
FACILITY TYPE:

FINDING DESCRIPTION: CONTAINERS OF USED PETROLEUM PRODUCTS ARE STORED MORE THAN TWO HIGH IN THE HAZARDOUS MATERIAL STORAGE BUILDINGS. USED PETROLEUM PRODUCTS HAVE NOT BEEN REMOVED FROM THE FACILITY FOR AT LEAST 9 MONTHS. THE MOTOR SEGEANT HAS CONTACTED THE 88TH RSC SEVERAL TIMES. THE HAZARDOUS MATERIAL STORAGE BUILDING IS FULL.

CRITERIA: Containers at CESQGs should be managed in accordance with specific management practices (MP).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): CONTACT 88TH RSC TO HAVE ON CALL CONTRACT REMOVE USED PETROLEUM PRODUCTS.

STATUS OF CORRECTION:

********** INSTALLATION'S RESPONSE: **********

1) CORRECTIVE ACTION (CA) SELECTED:_____
_____
_____
_____
2) CURRENT STATUS OF THE CA:_____
3) ARE ADDED DETAILS OR COST DATA NEEDED TO DESCRIBE THIS CA?: Y__ N__
EXPLAIN:_____

4) ESTIMATED COMPLETION DATE FOR CA:
5) REVIEWER'S REMARKS:

NAME/OFFICE/PHONE: DATE:

HW.15.5 #2 HS GMP FINDING Hazardous Waste

FINDING ID: CMP006
MANUAL QUESTION NUMBER: HW-015-005
FINDING CATEGORY: HEALTH/SAFETY
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: HAZARDOUS MATERIAL STORAGE BUILDING
IFS FACILITY NUMBER:
FACILITY TYPE:

FINDING DESCRIPTION: THE HAZARDOUS MATERIAL BUILDING IS NOT GROUNDED. GROUNDING CABLES ARE PRESENT, BUT APPEAR TO HAVE BEEN SEVERED.

CRITERIA: Containers at CESQGs should be managed in accordance with specific management practices (MP).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): INPUT WORK ORDER TO HAVE SITUATION CORRECTED.

STATUS OF CORRECTION:

********** INSTALLATION'S RESPONSE: **********

1) CORRECTIVE ACTION (CA) SELECTED:
2) CURRENT STATUS OF THE CA:
3) ARE ADDED DETAILS OR COST DATA NEEDED TO DESCRIBE THIS CA?: Y__ N__
EXPLAIN:
4) ESTIMATED COMPLETION DATE FOR CA:
5) REVIEWER'S REMARKS:

NAME/OFFICE/PHONE: DATE:

T2.1.4.A #1 III ARMY/DOD FINDING Asbestos

FINDING ID: CMP002
MANUAL QUESTION NUMBER: T2-001-004-A
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: FACILITY RECORDS
IFS FACILITY NUMBER:
FACILITY TYPE:

FINDING DESCRIPTION: NO ASBESTOS MANAGEMENT PLAN COULD BE FOUND IN

FACILITY RECORDS.

CRITERIA: Installations are required to prepare, coordinate, and execute an Installation Asbestos Management Plan (AR 200-1, para 10-3).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): CONTACT COLUMBUS CUSTOMER SERVICE TEAM TO OBTAIN A COPY OF AN ASBESTOS MANAGEMENT PLAN, ADJUST PLAN FOR FACILITY USE.

STATUS OF CORRECTION:

********** INSTALLATION'S RESPONSE: **********

1) CORRECTIVE ACTION (CA) SELECTED:_____
_____
_____
_____
2) CURRENT STATUS OF THE CA:_____
3) ARE ADDED DETAILS OR COST DATA NEEDED TO DESCRIBE THIS CA?: Y__ N__
EXPLAIN:_____
_____
_____
4) ESTIMATED COMPLETION DATE FOR CA:_____
5) REVIEWER'S REMARKS:_____
_____
_____
_____

NAME/OFFICE/PHONE:_____ DATE:_____

T3.1.3.A #1 III ARMY/DOD FINDING Radon

FINDING ID: CMP003
MANUAL QUESTION NUMBER: T3-001-003-A
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: FACILITY RECORDS
IFS FACILITY NUMBER:
FACILITY TYPE:

FINDING DESCRIPTION: NO TEST RESULTS FOR THE RADON SURVEY CONDUCTED IN 1993. SURVEY INDICATES THAT NO CANISTERS WERE RECOVERED FROM THIS FACILITY.

CRITERIA: All Army installations are required to perform radon measurements according to a prescribed prioritized schedule in order to identify Army structures with radon levels above 4 pCi/L with emphasis on identifying Priority I structures with levels greater than 20 pCi/L (AR 200-1, para 11-2a(3) and para 11-4).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): CONTACT 88TH RSC TO HAVE ANOTHER RADON SURVEY CONDUCTED.

STATUS OF CORRECTION:

********** INSTALLATION'S RESPONSE: **********

1) CORRECTIVE ACTION (CA) SELECTED:_____
_____

2) CURRENT STATUS OF THE CA: _____

3) ARE ADDED DETAILS OR COST DATA NEEDED TO DESCRIBE THIS CA?: Y__ N__

EXPLAIN: _____

4) ESTIMATED COMPLETION DATE FOR CA: _____

5) REVIEWER'S REMARKS: _____

NAME/OFFICE/PHONE: _____ DATE: _____

BASOPS ARCOM:
Support Installation:
Facility / Activity Type: 1) RM 2) OM 3) 4) 5)

EPA Region:
Congressional District:
Address:

City: MANSFIELD
State: OH
Country: USA
Zip Code: 44903-

ASSESSMENT SCREEN

*Fiscal Year: 2000 *Assessment Date (MM/DD/YYYY): 05/19/2000
*Assessment Type: E
*Manual Used: T

Manual Supplement Used:

Local Manual (OCONUS: MACOM Specific Manual)
Date (MM/YYYY): /
Author:
Title:

State Manual (OCONUS: Country Specific Manual)
Date (MM/YYYY): /
Author:
State Postal Code or Country Code:

*Assessor Name: CPT CARLOS M. POWELL
Point of Contact: CPT CARLOS M. POWELL

Address: 1816 COVENTRY ROAD

City: DAYTON
State: OH
Zip Code: 45420-
Phone: (937)258-1366

For Contract ECAS

Contract Number:
Delivery Order Number:
Contracting Office:

INSTALLATION SCREEN

*FFID: OH-2104OH037
*Installation Name: SCOUTEN USAR CENTER
Installation Category: R
MACOM: RESERVE

MUSARC:
BASOPS ARCOM:
Support Installation:
Facility / Activity Type: 1) RM 2) OM 3) 4) 5)

EPA Region:
Congressional District:
Address:

City: MANSFIELD

ENCLOSURE 5
ENVIRONMENTAL COMPLIANCE ASSESSMENT

INSTALLATION NAME: SCOUTEN USARC
INSTALLATION NUMBER: OH037
INSTALLATION LOCATION: MANSFIELD, OH

DATE ASSESSMENT COMPLETED: 8 March 1996

ENVIRONMENTAL COMPLIANCE EXECUTIVE SUMMARY

1. Scouten USAR Center is a 14,000 square feet, 100 man facility with a detached two bay Organizational Maintenance Shop (OMS). The surrounding area includes a school, small business and residential dwellings. The facility is on a well traveled street with access to a state highway approximately 1/2 mile to the south.

2. The Enviornmental Compliance Assessment notes four items which require action. Proper disposal and clean up of a waste oil tank and completion of radon testing will require outside assistance. Diversion of vehicle wash water through the oil water separator should be considered and is included in RPMA Project Documentation.

The city of Mansfield has included Scouten Center in the Industrial Waste Monitoring Program. Regular monitoring of sanitary discharges in the city will be required in the next two years. A testing program is currently being developed. The facility should comply with city guidelines under normal operations. It is not expected that compliance will require a significant expenditure.

3. The facility manager and tenant unit are aware of environmental regulations and making good faith effort to comply. Additional emphasis on housekeeping will assist compliance efforts. Unit training was not observed during the assessment.

George G. Chase
MAJ, EN USAR
Akron FET Leader

TABLE 1
MAJOR ACTIVITIES AND OPERATIONS

INSTALLATION: Scouten USARC
FFID: OH-21040H037

Fiscal Year: 1996

MAJOR ACTIVITIES AND OPERATIONS	APPLICABLE TO FACILITY
1.Incinerators	no
2.Heat/Power Production	yes
3.Medical Treatment Facility	no
4.Aircraft Operations	no
5.Aircraft Maintenance	no
6.Fuel Storage	no
7.Sludge Disposal	no
8.Sanitary/Industrial Wastewater	yes
9.Stormwater Runoff	yes
10.POL Dispensing	no
11.Wastewater Treatment	no
12.Vehicle Maintenance	yes
13.Shop Activities	yes
14.Solid Waste Generation	yes
15.Public Water Supply	yes
16.Toxic/Hazardous Materials Use	yes
17.PCB Electrical Equipment	no
18.Pesticide/Herbicide Use	yes
19.Emergency Planning	yes
20.Asbestos Removal	no
21.Underground Storage Tanks	no
22.Remodeling Activities	no
23.Construction Activities	no
24.Indoor Firing Range	no
25.Marine Operations	no
26.Kitchen Facilities	yes
27.Off-Site Activities	no
28.Training Ranges/Impact Areas	no
29.Open Burning/Detonation	no
30.Washrack/Oil-Water Separator	yes

This table is a summary of the activities reviewed as they pertain to the environmental assessment of the facility in accordance with the Environmental Assessment and Management (TEAM) Guide. The summary is a general list of activities that are reviewed. Some items on the list may not pertain specifically to this facility.

TABLE 2
SUMMARY OF FINDINGS

INSTALLATION: SSG ROY CLIFTON SCOUTEN USAR Fiscal Year: 1996
FFID: OH-2104OH037

SECTION NO.	TITLE	REGULATORY 1	REGULATORY 2	REGULATORY HS	MANAGEMENT POS	MANAGEMENT 3	MANAGEMENT HS	TOTAL
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	0	0	1	0	1
HW	Hazardous Waste	0	0	0	0	1	0	1
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	0	0	0
T3	Radon	0	0	0	0	1	0	1
T4	Lead Based Paint	0	0	0	0	0	0	0
WA	Wastewater	0	0	0	0	0	0	0
WQ	Water Quality	0	0	0	0	0	0	0
	TOTALS	0	0	0	0	4	0	4

Data File Name Prefix: OH064

Date Summary Report Produced: 03/02/96

HM.1.2.R #1 III GMP FINDING Hazardous Materials
FINDING ID: AOH 002
MANUAL QUESTION NUMBER: HM-001-002-A
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: ORGANIZATIONAL MAINTENANCE BLDG / DRILL HALL.
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: Small amounts of paint/painting material and propane stored in Drill Hall. Small amount of Mogas (10-gallon) stored in Organizational Maintenance Shop building.

CRITERIA: Management and organization of paperwork, materials, and personnel should be done in a manner that prevents noncompliance and recurrence of noncompliance, precludes/minimizes regulatory enforcement actions (including warning letters etc.) promotes good public relations, and addresses systemic weaknesses in the overall operation of the program (MP).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): Use good management practices to properly store hazardous materials in the existing facilities.

STATUS OF CORRECTION:

********** INSTALLATION'S RESPONSE: **********

1) CORRECTIVE ACTION (CA) SELECTED: _____
_____
_____
_____
2) CURRENT STATUS OF THE CA: _____
3) ARE ADDED DETAILS OR COST DATA NEEDED TO DESCRIBE THIS CA? Y__ N__
EXPLAIN: _____
_____
_____
4) ESTIMATED COMPLETION DATE FOR CA: _____
5) REVIEWER'S REMARKS: _____
_____
_____
_____

NAME/OFFICE/PHONE: _____ DATE: _____

HW.1.2.A #1 III GMP FINDING Hazardous Waste
FINDING ID: AOH 001
MANUAL QUESTION NUMBER: HW-001-002-A
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: MILITARY VEHICLE PARKING AREA.
IFS FACILITY NUMBER:
FACILITY TYPE: MEP - PARKING AREA MEP

FINDING DESCRIPTION: Not all hazardous waste that has been contracted for removal has been removed by the contractor. Approximately 8 each of five gallon drums, and 6 each of fifty-five gallon drums located in the military vehicle parking area.

CRITERIA: Management and organization of paperwork, materials, and personnel should be done in a manner that prevents noncompliance and recurrence of noncompliance, precludes/minimizes regulatory enforcement actions (including warning letters etc.) promotes good public relations, and addresses systemic weaknesses in the overall operation of the program (MP).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): Follow up with contractor to ensure that remaining Hazardous Waste is removed.

STATUS OF CORRECTION:

********** INSTALLATION'S RESPONSE: **********

1) CORRECTIVE ACTION (CA) SELECTED: _____
_____
_____
_____
2) CURRENT STATUS OF THE CA: _____
3) ARE ADDED DETAILS OR COST DATA NEEDED TO DESCRIBE THIS CA? Y__ N__
EXPLAIN: _____
_____
_____
4) ESTIMATED COMPLETION DATE FOR CA: _____
5) REVIEWER'S REMARKS: _____
_____
_____
_____

NAME/OFFICE/PHONE: _____ DATE: _____

ST.95.1.A #1 III ARMY/DOD FINDING Storage Tanks
FINDING ID: AOH 003
MANUAL QUESTION NUMBER: ST-095-001-A
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: FACILITY FILE SYSTEM.
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: Two each underground storage tanks have been removed from facility property. No closure reports have been forwarded to the facility to keep on file.

CRITERIA: USTs that are permanently taken out of service and abandoned USTs are required to be removed from the ground (AR 200-1, para 5-7c(4)).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): Request copy of closure from the 88th RCS.

STATUS OF CORRECTION:

********** INSTALLATION'S RESPONSE: **********

1) CORRECTIVE ACTION (CA) SELECTED: _____

_____

_____

_____

2) CURRENT STATUS OF THE CA: _____

3) ARE ADDED DETAILS OR COST DATA NEEDED TO DESCRIBE THIS CA? Y__ N__

EXPLAIN: _____

_____

_____

4) ESTIMATED COMPLETION DATE FOR CA: _____

5) REVIEWER'S REMARKS: _____

_____

_____

_____

NAME/OFFICE/PHONE: _____ DATE: _____

T3.1.2.A #1 III GMP FINDING Radon
FINDING ID: AOH 004
MANUAL QUESTION NUMBER: T3-001-002-A
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: FACILITY FILES.
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: Radon testing has been performed. No finding documentation on file at the Facility.

CRITERIA: Management and organization of paperwork, materials, and personnel should be done in a manner that prevent, noncompliance and recurrence of noncompliance, precludes/minimizes regulatory enforcement actions (including warning letters etc.) promotes good public relations, and addresses systemic weaknesses in the overall operation of the program (MP).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): Facility Manager should request a copy of the findings report from the 88th RCS.

STATUS OF CORRECTION:

********** INSTALLATION'S RESPONSE: **********

1) CORRECTIVE ACTION (CA) SELECTED: _____

_____

_____

_____

2) CURRENT STATUS OF THE CA: _____

3) ARE ADDED DETAILS OR COST DATA NEEDED TO DESCRIBE THIS CA? Y__ N__

EXPLAIN: _____

_____

_____

4) ESTIMATED COMPLETION DATE FOR CA: _____

5) REVIEWER'S REMARKS: _____

_____

_____

_____

NAME/OFFICE/PHONE: _____ DATE: _____

CROSSCONNECTION/BACKFLOW PREVENTION PROGRAM

FOR

THE 88TH REGIONAL SUPPORT COMMAND FACILITIES IN OHIO

Prepared for:

U.S. ARMY CORPS OF ENGINEERS
Louisville District
Louisville, Kentucky

Prepared by:

DODSON-STILSON, INC.
Columbus, Ohio

January 31, 1997

Contract No. DACW27-96-D-0035 **Delivery Order No. 0001**

TABLE OF CONTENTS

i. EXECUTIVE SUMMARY

This study was undertaken by request of the Louisville Corp. of Engineers and the 88th Support Command. The purpose of the study was to survey the USARC sites in the state of Ohio, to locate and identify the occurrences of cross-connection protection code violations and make the appropriate backflow prevention device recommendations to correct these deficiencies.

The majority of the sites in the scope of work should have additional cross-connection protection. The most common need is protection for hose bibbs and wall hydrants. The recommendation for these devices is an inexpensive add-on that attaches to the device. Another common deficiency is the make-up water connections to the mechanical systems, many of these connections are unprotected in many buildings. A Reduced Pressure Principle Backflow Preventer is recommended in those cases. All existing devices as well as those recommended should be tested every year and some specific models should be cleaned or rebuilt at regular intervals. The records of the inspections should be maintained yearly and a copy sent to the water provider.

The most serious violation of all the sites was at the Fort Hayes USARC. In building 116 there is a water meter pit that contains an 8" incoming water line from Cleveland Avenue which serves as the main water source for what was once the entire Fort Hayes complex. The meter pit also has a 12" diameter sump about 2' deep in the floor with an eductor (a non-electrically operated sump pump). The water supply to operate the eductor's float control was connected (hard piped) with a 1" diameter galvanized pipe threaded into the 8" water main down stream of the two water meters. The eductor's discharge line was directly connected into what appears to be an 8" hub and spigot sanitary or storm sewer line running north and south thru the meter pit. This is a severe cross-connection problem without any backflow protection device to protect the city of Columbus' water supply, or the downstream connected consumers and needs immediate attention.

The applicable codes for each of the sites in the study were obtained and are located in Chapter 6, "OHIO CROSS-CONNECTIONS AND BACKFLOW PREVENTION CODES." This chapter the includes national, state and local water supplier regulations that apply. Each facility was inspected and the potential cross-connection violations were identified.

Diagrams for each facility were included in Chapter 4, "OHIO RESERVE SITES", indicating the location of the potential cross-connection locations requiring inspections and/or backflow prevention devices. Diagrams distinguish between where devices are required by regulation and where they are recommended by the Corps of Engineers. Recommendations for the type of backflow prevention device that should be installed at each specific location where required to meet state and local regulations are located on the diagrams. A cost estimate for purchasing and installing each device is also included in the chapter.

A summary table of the location, model number, cleaning schedule, rebuilding schedule of the existing backflow prevention devices was listed in Chapter 5, "SUMMARY OF EXISTING BACKFLOW PREVENTERS." Ohio EPA's sample forms for inspection of existing backflow preventers were included in Chapter 3, "CROSS-CONNECTION/BACKFLOW PREVENTION PROGRAM." A database is included, showing facility, facility id number, building number, address, water provider, point of contact at the water provider in charge of backflow compliance, the contact's phone number, the units, type, model number, date of installation, date of last inspection, inspection frequency, and room for additional notes per site. The database is in Chapter 8, "DATABASE OF BACKFLOW DEVICES AT EACH FACILITY".

ii. INTRODUCTION

This study was undertaken at the request of Gary Meden of the Louisville District of the US Army Corps of Engineers, Geotechnical and Environmental Engineering Branch, and Mike Gretchen of the 88th Regional Support Command (RSC).

The purpose of this study is to establish a cross-connection/backflow prevention program for 29 military reserve centers in Ohio. The intent is to prevent any significant risk to human health from potential backflow from the facilities into the public water supply and to conform to State and Local regulations pertaining to cross-connections and backflow prevention devices.

Dodson-Stilson wishes to thank the Corps of Engineers and the 88th Regional Support Command for the privilege of assisting them in this survey. We would be glad to provide further services as the need arises.

iii. ABBREVIATIONS LIST

AMER.	AMERICAN
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASSE	AMERICAN SOCIETY OF SANITARY ENGINEERS
ATM.	ATMOSPHERIC
AWWA	AMERICAN WATER WORKS ASSOCIATION
BLDG.	BUILDING
BKR.	BREAKER
CAD	COMPUTER AIDED DRAFTING
CERT.	CERTIFIED
DHW	DOMESTIC HOT WATER
DIFF.	DIFFERENCE
EPA	ENVIRONMENTAL PROTECTION AGENCY
FPWH	FROST PROOF WALL HYDRANT
GPM	GALLONS PER MINUTE
HT	HEIGHT
H.W.	HOT WATER
MFG	MANUFACTURER
NA	NOT APPLICABLE
NO.	NUMBER
OEPA	OHIO ENVIRONMENTAL PROTECTION AGENCY
OBBC	OHIO BASIC BUILDING CODE
PSI	POUNDS PER SQUARE INCH
PSID	POUNDS PER SQUARE INCH DISPLACEMENT
QTY	QUANTITY
RM.	ROOM
STD.	STANDARD
VAC.	VACUUM

1.0 CODE REQUIREMENTS

There are three categories of codes pertaining to cross-connections and backflow: national, state, and local. The national standards are manufacturer's standards and ASSE (The American Society of Sanitary Engineers). Manufacturer's standards are developed from years of experience, and have been adopted as guidelines for the industry. The state codes in Ohio are the OBBC (The Ohio Basic Building Code) and OEPA (The Ohio Environmental Protection Agency). The local communities that have regulations in addition to the state codes are the cities of Akron, Bryan, Canton, Cleveland, Columbus, Marietta, Springfield, Warren, Zanesville, and Montgomery and Warren Counties. In some cases, the local communities did not adopt any addition regulations in addition to the national and state codes.

Dodson-Stilson contacted the water provider for every site to obtain the codes for each area. The persons in charge of compliance with the backflow and cross-connection regulations, and a phone number where they can be reached are listed in the database of Chapter 8 "DATABASE OF BACKFLOW DEVICES AT EACH FACILITY". Any standards beyond the Ohio EPA's standard are listed in Chapter 6 "OHIO CROSS-CONNECTION AND BACKFLOW CODES" of this report.

The American Society of Sanitary Engineers has published a standard which is referenced by most of the codes. It sets minimum requirements for meeting certain classifications of protection. The Ohio Basic Building Code, sometimes refered to as the Administrative Code, is a code that should be followed for the types of buildings surveyed for this study. It lists a few guidelines that should be observed, but is not as extensive as the OEPA regulations. The Ohio Environmental Protection Agency has published a guideline which should be followed for all backflow preventers in the State of Ohio. The rules for what type of device should be used in each case, the procedures for testing, the frequency of testing and how to deal with special cases are listed. Chapter 6 "LISTING OF CODES" contains the requirements of these codes.

2.0 INSPECTION OF THE FACILITIES

Two teams were formed to go throughout the state and investigate each of the sites. Both teams were led by design engineers fully knowledgeable of the cross-connection and backflow prevention codes in Ohio. Each team included a CAD (Computer Aided Drafting) technician to assist in site inspections and do the necessary drafting on the sites surveyed.

The procedure the teams used while inspecting each site was as follows:

> After arriving at the site, the facilities representative was contacted. A sketch of the general layout of the building was made for reference of collected information. All observed cross-connection and backflow situations were recorded. The cross-connections were found at plumbing fixtures or connections to mechanical systems located throughout the building in rooms such as, but not limited to, kitchens, toilet rooms and boiler rooms. Existing backflow preventers and their locations were also noted. Any hose-bibbs or wall hydrants, their locations and whether or not they were protected from back siphonage were also noted.

3.0 CROSS-CONNECTION/BACKFLOW PREVENTION PROGRAM

Proper protection against backflow and back-siphonage is important for the health of the inhabitants of the building as well as the general public. It is the joint responsibility of the regulatory agencies, the water provider, and the water consumer to keep the water supply clean. For the water consumer, the responsibilities in the cross-connection/backflow prevention program are as follows:

> The water consumer should have periodic surveys made of the water system to determine if there are any cross-connections. Then check to see if they are protected, or can be eliminated. All plumbing regulations should be followed concerning the potable water system. The consumer is responsible for maintaining all backflow prevention devices in proper working order and for reporting to the water supplier the testing and maintenance records.

The Ohio EPA states minimum time intervals for testing of the different types of backflow prevention devices. The higher degree of hazard involved, the more frequent the inspections should occur. More frequent inspections than the minimum mentioned by the Ohio EPA should be done for higher hazard situations. The minimum testing for air gaps, Double Check Valve Backflow Preventers, Reduced Pressure Principle Backflow Preventers, and Atmospheric Vacuum Breakers is once a year. Double Check Valve Backflow Preventers need to be cleaned at least every 30 months. Reduced Pressure Principle Backflow Preventers need to be rebuilt at least every 5 years. All inspections should be performed by a registered plumber who certified to do inspections. All cross-connection protection devices should either be rebuilt or replaced immediately if they do not pass the inspections.

The cost to have a Double Check Valve Backflow Preventer or Reduced Pressure Backflow Preventer tested varies with the size and location. For example a 3/4" Reduced Pressure Principle Backflow Preventer inspection would cost approximately $90 to $100 in 1997 dollars, but could cost more in cities with more stringent inspector certification requirements, or where the inspector would need to travel further to get to the site. The cost to test an air gap would be much less, because it only takes a simple visual inspection, and filling out of paper work. Typical costs for the cleaning of a Double Check Valve Backflow Preventer are approximately $180 for a 2", and $300 for a 4", both figures in 1997 dollars. The rebuilding of a 3/4" Reduced Pressure Principle Backflow Preventer could range from $100 to $250 in 1997 dollars depending on the condition of the device. A cost for travel and setup for the registered plumber must also be considered and would vary on location. Travel time for a typical plumber is usually around $50/hr. in 1997 dollars. Chapter 4, "OHIO RESERVE SITES" contains cost estimates for each type of cross-connection or backflow device required at the various sites.

On the following pages are sample forms from the Ohio EPA for inspections:

SUGGESTED FORM
Report on Inspection, Tests and Maintenance

VACUUM BREAKERS

Type of Device Mfg. Model Serial No. Size	Location of Device	Ht. Above Highest Outlet	External Inspection	Initial Test (psi)		Internal Inspection	Cleaned	Repaired	Final Test (psi)	
				Air Inlet Opening	Check Valve Diff.				Air Inlet Opening	Check Valve Diff.

Inspector _____ Cert. Tester No. _____ Date _____
(signature)

CERTIFICATION

I hereby certify that the foregoing report is correct and that the following statement is true:

The vacuum breakers have been in constant use at these locations during the entire prescribed interval between tests, and during that period these devices were not bypassed, made inoperative or removed without proper authorization. All defects found during the operating period or during inspections or tests of these devices were satisfactorily corrected without delay.

Company _____ Signature _____

Address _____ Print Name _____

_____ Title _____

Date _____

Suggested form from the OEPA

SUGGESTED FORM
Report on Inspection, Tests and Maintenance
REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION DEVICE

Type of Device _____ Model _____

Size _____ Date Installed _____

Location of Device _____ Service No. _____

	Check Valve No. 1	Check Valve No. 2	Differential Pressure Relief Valve
Initial Test	Apparent static drop ____ psid Leaked? Yes ( ) No ( ) Actual static drop _____ psid	Leaked ( ) Closed Tight ( )	Opened at _____ psid Did not open ( )
Describe Repairs			
Materials Used			
Final Test	Apparent static drop ____ psid Actual static drop _____ psid	Closed Tight ( )	Open at _____ psid

Inspector _____ Cert. Tester No. _____ Date _____
(signature)

CERTIFICATION

I hereby certify that the foregoing report is correct and that the following statement is true:

The reduced pressure principle backflow prevention device has been in constant use at this location during the entire prescribed interval between tests and during that period this device was not bypassed, made inoperative or removed without proper authorization. All defects found during the operating period or during inspections or tests of the device were satisfactorily corrected without delay.

Company _____ Signature _____

Address _____ Print Name _____

_____ Title _____

Date _____

Suggested form from the OEPA

SUGGESTED FORM
Report on Inspection, Tests and Maintenance
LOW PRESSURE CUT-OFF DEVICE AND
MINIMUM PRESSURE SUSTAINING VALVE

Location of Cut-off Device: _____

Size of Service: _____

Pump Rating : _____ gpm	Initial Test	Final Test	
The pump automatically cut off at	_____	_____	psig
Is a minimum pressure sustaining valve installed after the pump?	_____	_____	yes/no
Did the minimum pressure sustaining valve operate properly before pump cut off?	_____	_____	yes/no/NA
Did the pump remain off until manually restarted?	_____	_____	yes/no
Did the pump turn on with manual restart?	_____	_____	yes/no

Describe repairs:

Inspector signature _____

Printed name _____ Date _____

CERTIFICATION

I hereby certify that the foregoing report is correct and that the following statement is true:

This low pressure cut-off device and minimum pressure sustaining valve (if installed) have been in constant use at this location during the entire prescribed interval between tests and during that period this device was not bypassed, made inoperative and removed without proper authorization. All defects found during the operating period or during inspections or tests of the device were satisfactorily corrected without delay.

Company _____ Signature _____

Address _____ Print Name _____

_____ Title _____

Date _____

Suggested form from the OEPA

INTERCHANGEABLE CONNECTION

Type of Device _____

Location of Device _____

Date Installed _____ Service No. _____

I hereby certify that the interchangeable connection described above was inspected by me on _____ and the following findings were made:
(date)

_____ Yes _____ No — The device has been properly installed in accordance with approved plans and has not been relocated, removed, or bypassed.

_____ Yes _____ No — The reduced pressure principle backflow prevention device installed as part of this interchangeable connection has been tested for tightness and proper operation (report attached).

Inspector _____ Cert. Tester No. _____ Date _____

CERTIFICATION

I hereby certify that the foregoing report is correct and that the following statement is true:

The interchangeable connection has been in constant use at this location during the entire prescribed interval between inspection periods and during that period this device was not bypassed or otherwise made ineffective.

Company _____ Signature _____

Address _____ Print Name _____

_____ Title _____

Date _____

Suggested form from the OEPA

SUGGESTED FORM

Report on Inspection, Tests and Maintenance

DOUBLE CHECK VALVE ASSEMBLY

Type of Device _____ Model _____

Size _____ Serial No. _____ Date Installed _____

Location of Device _____ Service No. _____

	Check Valve No. 1	Check Valve No. 2
Test Before Repair	Leaked ( ) Closed Tight ( )	Leaked ( ) Closed Tight ( )
Describe Repairs		
Materials Used		
Final Test	Closed Tight ( )	Closed Tight ( )

Inspector _____ Cert. Tester No. _____

(signature) Date _____

CERTIFICATION

I hereby certify that the foregoing report is correct and that the following statement is true:

The double check valve assembly has been in constant use at his location during the entire prescribed interval between test periods and during that period this assembly was not bypassed, made inoperative or removed without proper authorization. All defects found during the operating period or during tests of the assembly were satisfactorily corrected without delay.

Company _____ Signature _____

Address _____ Print Name _____

_____ Title _____

Date _____

Suggested form from the OEPA

SUGGESTED FORM
Report on Inspection
AIR GAP SEPARATION

Location of Device _____

Date Installed _____ Service No. _____

I hereby certify that the air gap separation described above was inspected by me on _____ and the following findings were made:
(date)

_____ Effective diameter of the supply pipe or opening.

_____ Near wall distance, if present.

_____ Height of supply opening above the flood level rim.

____ ____ Required minimum air gap separation is provided.
Yes No

____ ____ Air gap separation is not being bypassed.
Yes No

____ ____ No evidence that arrangements have been made to bypass the air
Yes No gap separation.

Inspector _____ _____
(signature) (printed name)

CERTIFICATION

I hereby certify that the foregoing report is correct and that the following statement is true:

The air gap separation has been in constant use at the location during the entire prescribed interval between inspections and during the period this device was not bypassed or otherwise made ineffective.

Company _____ Signature _____

Address _____ Print Name _____

_____ Title _____

Date _____

Suggested form from the OEPA

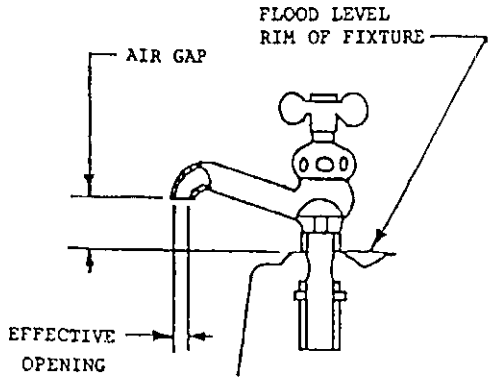
4.0 OHIO RESERVE SITES

The following table and photos describe the device or method, service and reference standards:

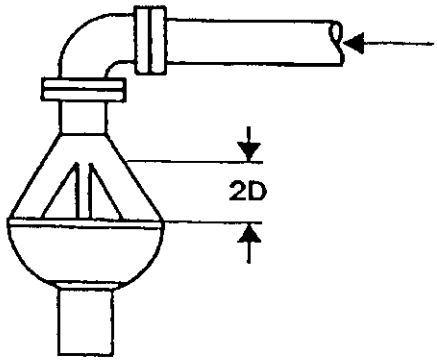
Backflow Preventers - Types

TYPE	DEVICE/METHOD	DESCRIPTION	SERVICE	REF. STD.
#1	Air Gap (All Hazard) 2 Times the Pipe Diameter - Not Less Than 2"	Physical separation of the piping system.	Air Gap	ANSI 112.1.2 - 1973
#2	Reduced Pressure Principle Backflow Preventer (High Hazard)	Two independently-acting check valves with a hydraulically operated relief means, two tightly closing shut-off valves and four test cocks.	Boiler FW Make-up	ASSE 1013-71
#3	Atmospheric Vacuum Breaker (Moderate to High Hazard)	A check valve member and an air vent valve that is normally closed when the device is pressurized and open when the inlet pressure is atmospheric.	Kitchen & Service Sinks	ASSE 1001-82
#4	Atmospheric Vacuum Breaker (Moderate Hazard)	A check valve member and an atmospheric vent valve.	Hose Bibb	ASSE 1011-82
#5	Pressure Type Vacuum Breaker with Intermediate Atmospheric Vent (Moderate Hazard)	Two independently-acting check valves with an intermediate relief valve.	Existing to Remain	ASSE 1012-72
#6	Double Check Valve Assembly (Low Hazard)	Two independently-acting check valves, two isolation valves and four test cocks.	Limited Area F.P.	ASSE 1015-72
#7	Double Check Detector Assembly	Two check valves installed in parallel with a bypass meter to detect low flows up to three gpm and an ASSE 1013 device	Fire Protection (Bldgs.)	ASSE 1048
#8	Inline Vacuum Breaker	Two independently-acting check valves with a means for automatically venting to atmosphere.	In-Line Ice Machines	ASSE 1035

This table is repeated in Chapter 7 for reference.

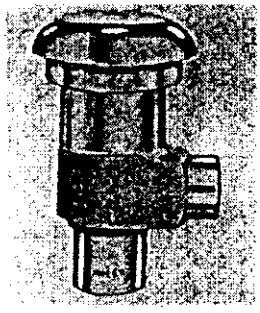


TYPE 1
Air Gap on a Faucet
ASSE #1021



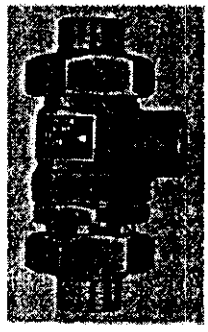
TYPE 1
Air Gap in a Pipe
ASSE #1021

TYPE 2
Reduced Pressure Principle
Backflow Preventer
ASSE #1013



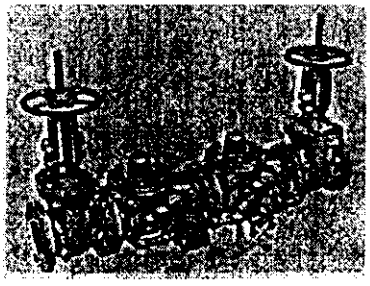
TYPE 3
Pipe Applied
Atmospheric Type
Vacuum Breaker
ASSE #1011

TYPE 4
Hose Connection
Vacuum Breaker
ASSE #1011

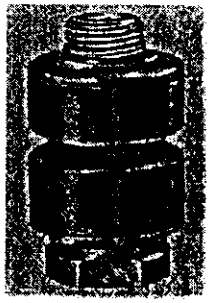


TYPE 5
Backflow
Preventer with
Intermediate
Atmospheric
Vent
ASSE #1012

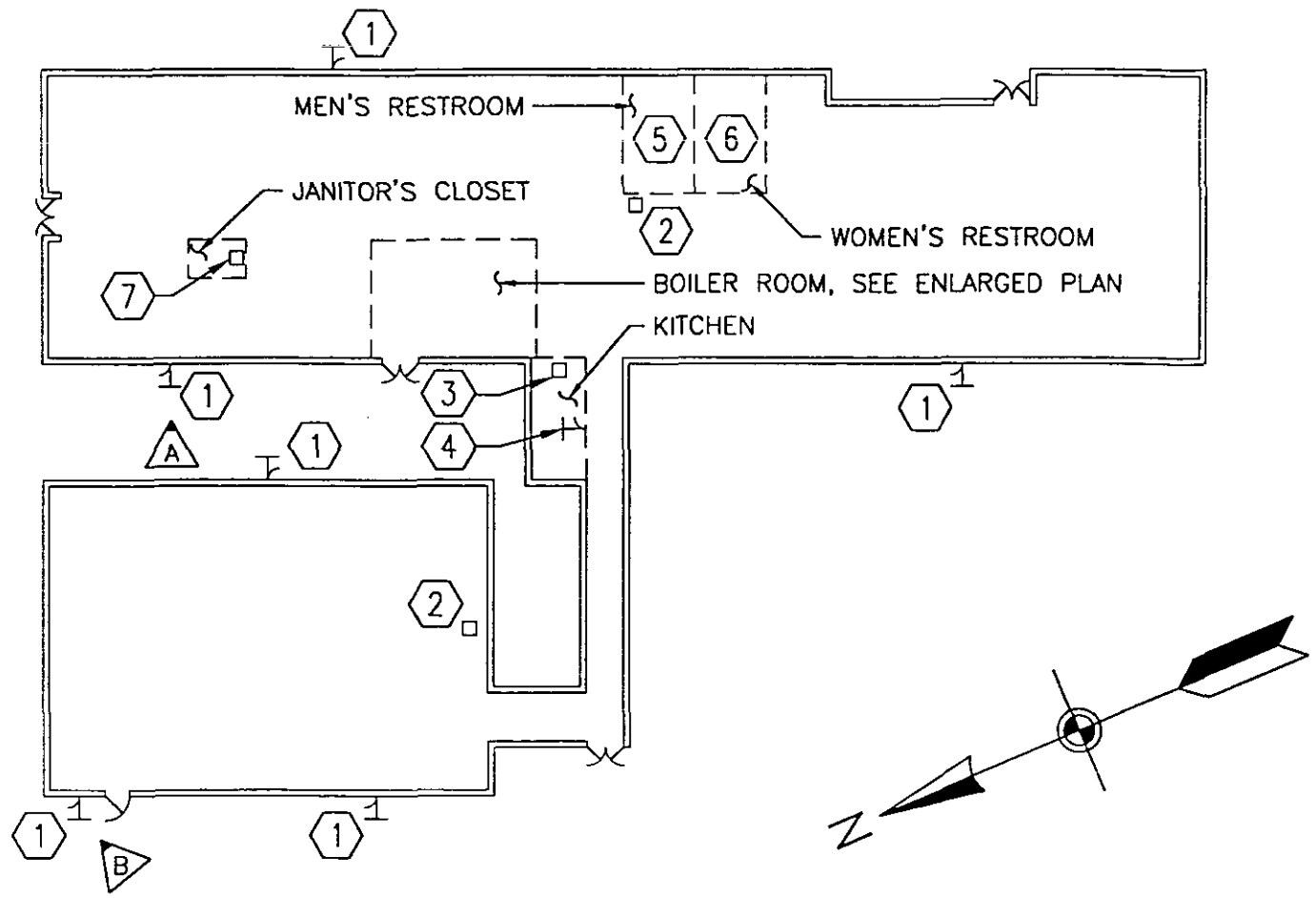
TYPE 6
Double Check Backflow
Prevention Assembly
ASSE #1015



TYPE 7
Double Check Detector
Assembly Backflow
Preventer
ASSE #1048



TYPE 8
Inline Vacuum
Breaker
ASSE #1035



TRAINING CENTER FLOOR PLAN

APPROXIMATE SCALE: 1" = 30'

CODED NOTES:

(1) UNPROTECTED HOSE BIBB REQUIRES BACKFLOW PREVENTER TYPE 4 PER OEPA 3745-95-04-(B2) AND OBBC 4101:2-61-05.

(2) DRINKING FOUNTAIN IS SATISFACTORY, NO FURTHER BACKFLOW PREVENTION DEVICE IS REQUIRED.

(3) KITCHEN SINK IS SATISFACTORY. NO FURTHER BACKFLOW PREVENTION DEVICE IS REQUIRED.

(4) UNPROTECTED 3/8" HOSE BIBB IN KITCHEN REQUIRES BACKFLOW PREVENTER TYPE 4 PER OEPA 3745-95-04-(B2) AND OBBC 4101:2-61-05.

(5) FIXTURES, FLUSH VALVES, AND FAUCETS IN MEN'S RESTROOM ARE SATISFACTORY BY DESIGN. NO FURTHER BACKFLOW PREVENTION DEVICES ARE REQIRED.

(6) FIXTURES, FLUSH VALVES, AND FAUCETS IN WOMEN'S RESTROOM ARE SATISFACTORY BY DESIGN. NO FURTHER BACKFLOW PREVENTION DEVICES ARE REQUIRED.

(7) UNPROTECTED JANITOR'S SERVICE SINK FAUCET REQUIRES BACKFLOW PREVENTER TYPE 4 PER OEPA 3745-95-04-(B2) AND OBBC 4101:2-61-05.

SYMBOLS:

(X) INDICATES DIRECTION OF PHOTOGRAPH OF SUBJECT TAKEN. PHOTOGRAPHS FOLLOW DIAGRAMS IN THIS STUDY. LETTER IN THE TRIANGLE CORRESPONDS TO THE PHOTOGRAPHS.

BACKFLOW PREVENTION DEVICE SURVEY
88TH REGIONAL SUPPORT FACILITIES IN OHIO

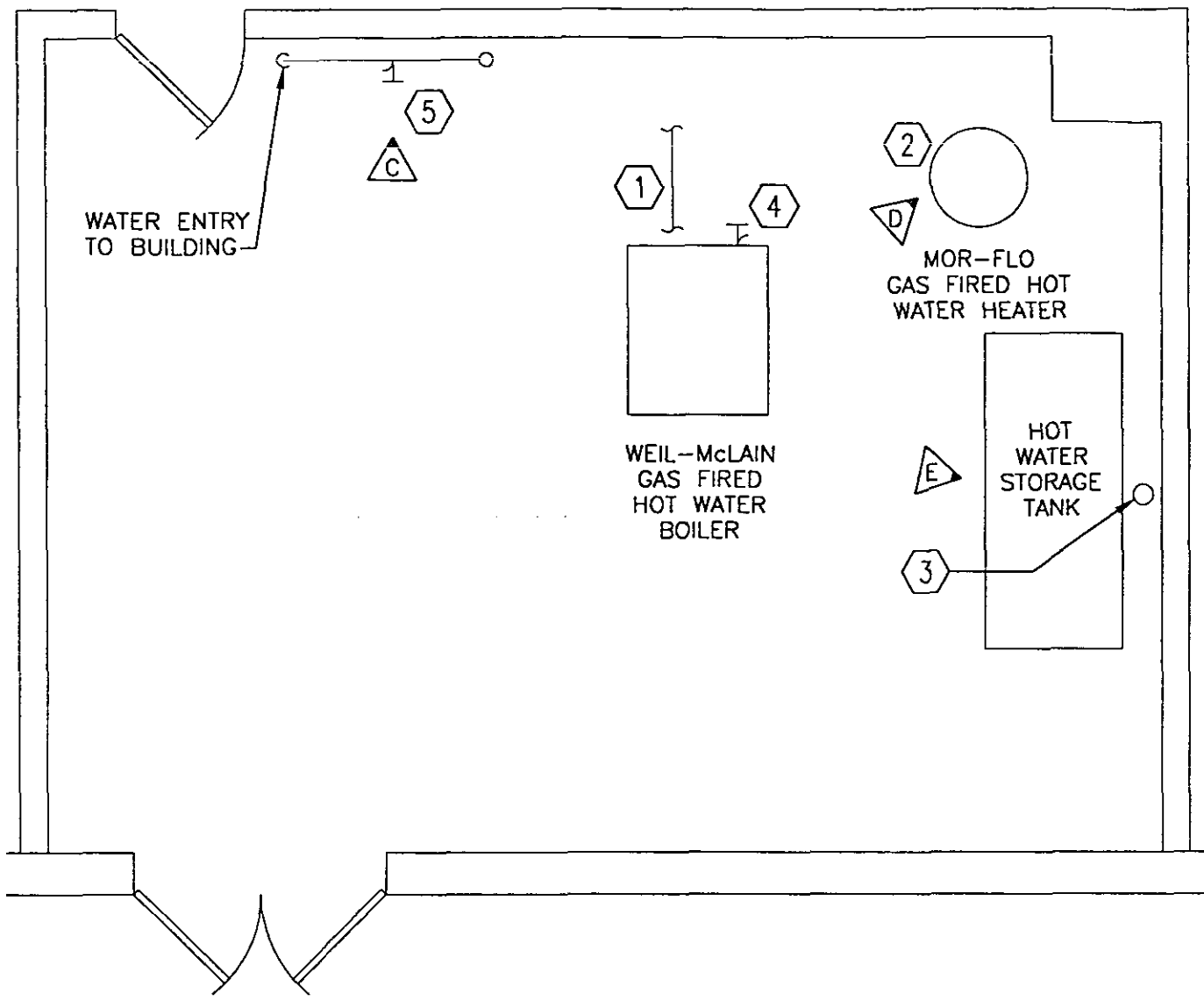
R. C. SCOUTEN USARC
FACILITY NO. OH037
217 HEGES ST.
MANSFIELD, OHIO 44903

US Army Corps of Engineers

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
LOUISVILLE, KENTUCKY

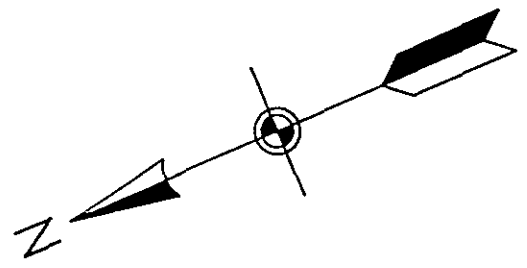
Dodson Stilson — Dodson-Stilson, Inc. A DLZ Company — ENGINEERS · ARCHITECTS · SCIENTISTS

PLATE No.	1 OF 3
SCALE	NOTED
DATE	1-31-97
APPROVED	WPS



BOILER ROOM PLAN

APPROXIMATE SCALE: 1/4" = 1'



CODED NOTES:

1. UNPROTECTED 3/4" COLD WATER MAKE–UP TO BOILER REQUIRES BACKFLOW PREVENTION DEVICE TYPE 2 TO PROTECT FROM POSSIBLE HEALTH HAZARD.
2. GAS FIRED WATER HEATER WITH UNPROTECTED DRAIN ON BOTTOM OF TANK REQUIRES BACKFLOW PREVENTION DEVICE TYPE 4 PER OEPA 3745–95–04–(B2) AND OBBC 4101:2–61–05.
3. 2" DRAIN PIPE FROM WATER STORAGE TANK EXTENDS BELOW RIM OF HUB DRAIN. REWORK PIPE SO THAT 2" AIR GAP IS PROVIDED PER OEPA 3745–95–04–(B2) AND OBBC 4101:2–61–05.
4. UNPROTECTED HOSE BIBB REQUIRES BACKFLOW PREVENTER TYPE 4 PER OEPA 3745–95–04–(B2) AND OBBC 4101:2–61–05.
5. UNPROTECTED HOSE BIBB ON INCOMING COLD WATER PIPE REQUIRES BACKFLOW PREVENTER TYPE 4 PER OEPA 3745–95–04–(B2) AND OBBC 4101:2–61–05.

SYMBOLS:

X — INDICATES DIRECTION OF PHOTOGRAPH OF SUBJECT TAKEN. PHOTOGRAPHS FOLLOW DIAGRAMS IN THIS STUDY. LETTER IN THE TRIANGLE CORRESPONDS TO THE PHOTOGRAPHS.

BACKFLOW PREVENTION DEVICE SURVEY
88TH REGIONAL SUPPORT FACILITIES IN OHIO

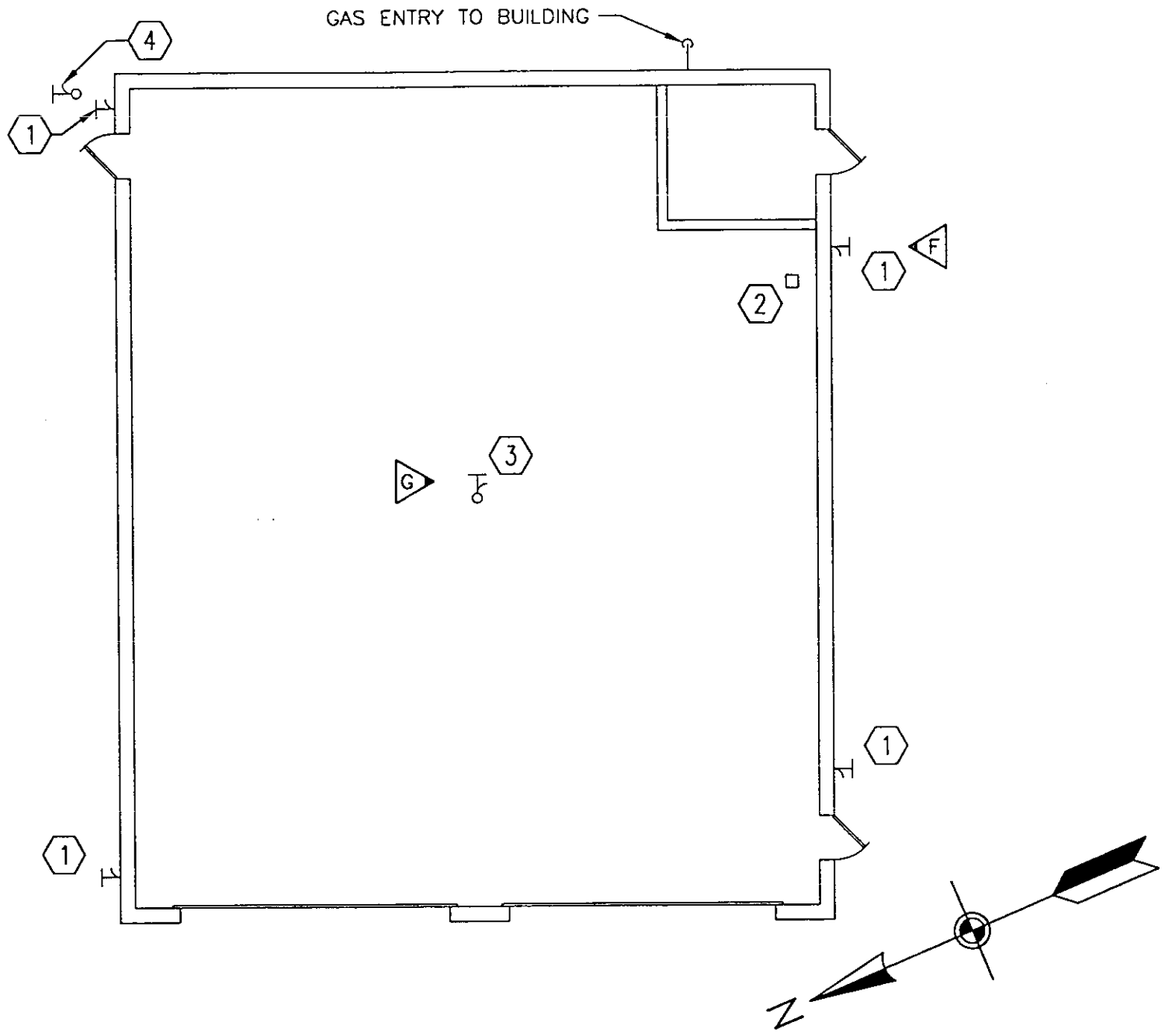
R. C. SCOUTEN USARC
FACILITY NO. OH037
217 HEGES ST.
MANSFIELD, OHIO 44903

US Army Corps of Engineers

U.S.ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
LOUISVILLE, KENTUCKY

Dodson Stilson — Dodson–Stilson, Inc. A DLZ Company — ENGINEERS • ARCHITECTS • SCIENTISTS

PLATE No.	2 OF 3
SCALE	NOTED
DATE	1–31–97
APPROVED	WPS



MAINTENANCE BUILDING FLOOR PLAN

APPROXIMATE SCALE: 1" = 10'

CODED NOTES

1. UNPROTECTED FROST PROOF WALL HYDRANT REQUIRES BACKFLOW PREVENTER TYPE 4 PER OEPA 3745-95-04-(B2) AND OBBC 4101:2-61-05.
2. EMERGENCY EYE WASH/SHOWER IS SATISFACTORY BY DESIGN, NO FURTHER BACKFLOW PREVENTION DEVICE IS REQUIRED.
3. UNPROTECTED HOSE BIBB REQUIRES BACKFLOW PREVENTER TYPE 4 PER OEPA 3745-95-04-(B2) AND OBBC 4101:2-61-05.
4. UNPROTECTED YARD HYDRANT REQUIRES BACKFLOW PREVENTER TYPE 4 PER OEPA 3745-95-04-(B2) AND OBBC 4101:2-61-05.

SYMBOLS:

X — INDICATES DIRECTION OF PHOTOGRAPH OF SUBJECT TAKEN. PHOTOGRAPHS FOLLOW DIAGRAMS IN THIS STUDY. LETTER IN THE TRIANGLE CORRESPONDS TO THE PHOTOGRAPHS.

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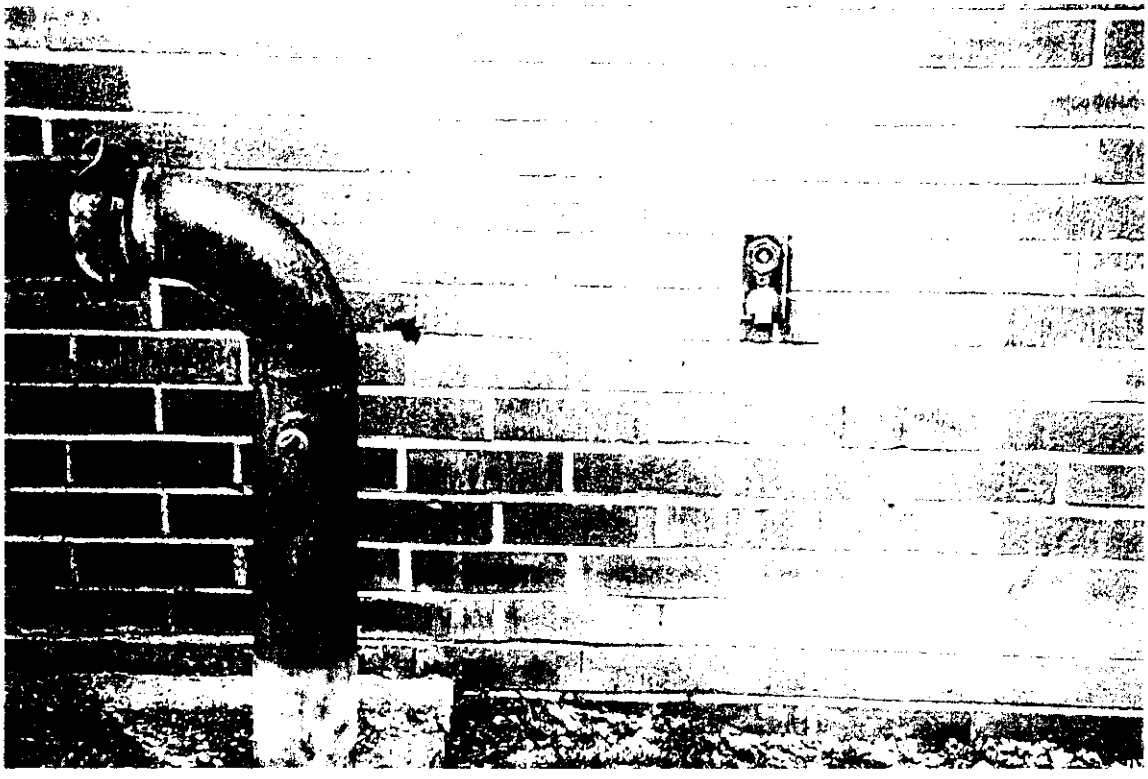
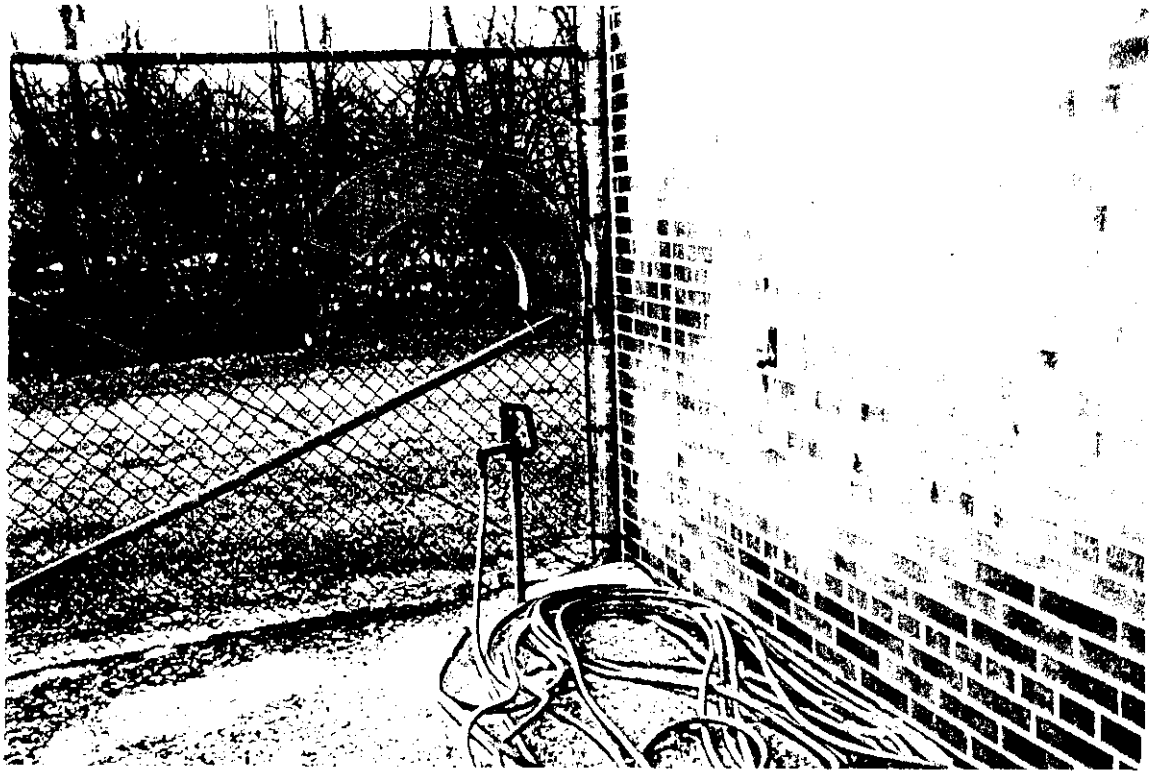
PLATE No.	3 OF 3
SCALE	NOTED
DATE	1-31-97
APPROVED	WPS

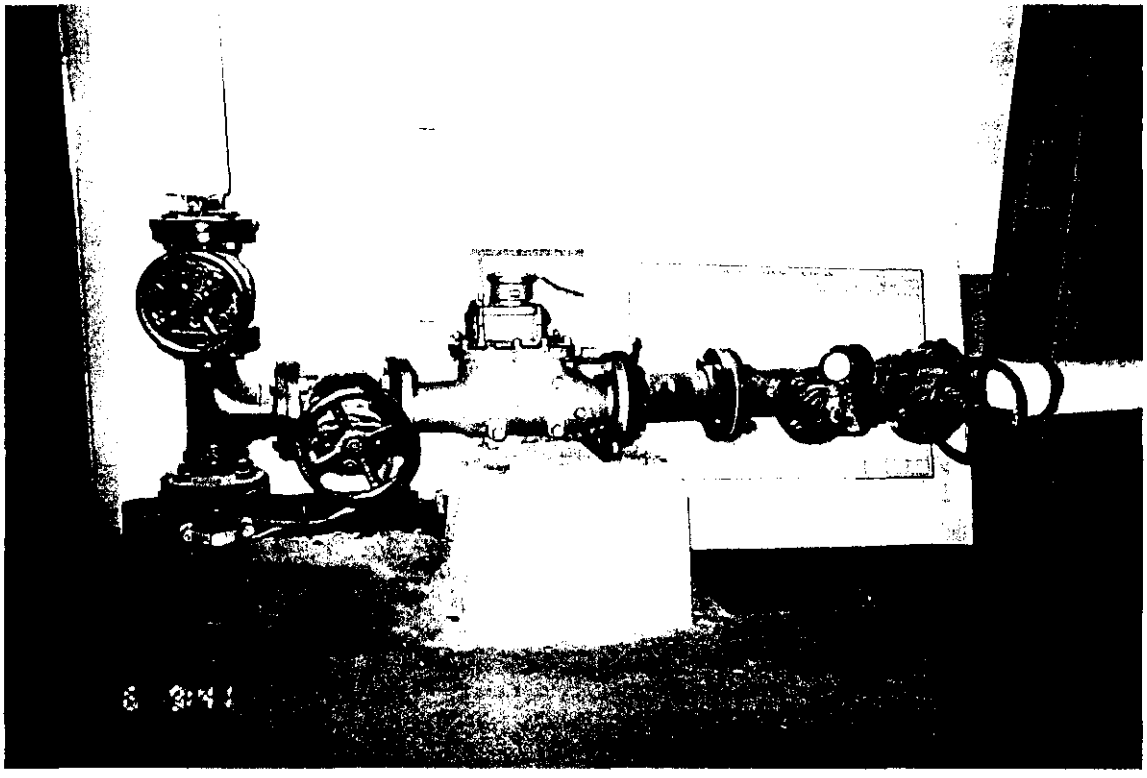
[[GRB]] - I:\FAC\96217022.00\7022-M38.DWG - JAN 26, 1997 - 11:42:52 - SCALE = 1.00



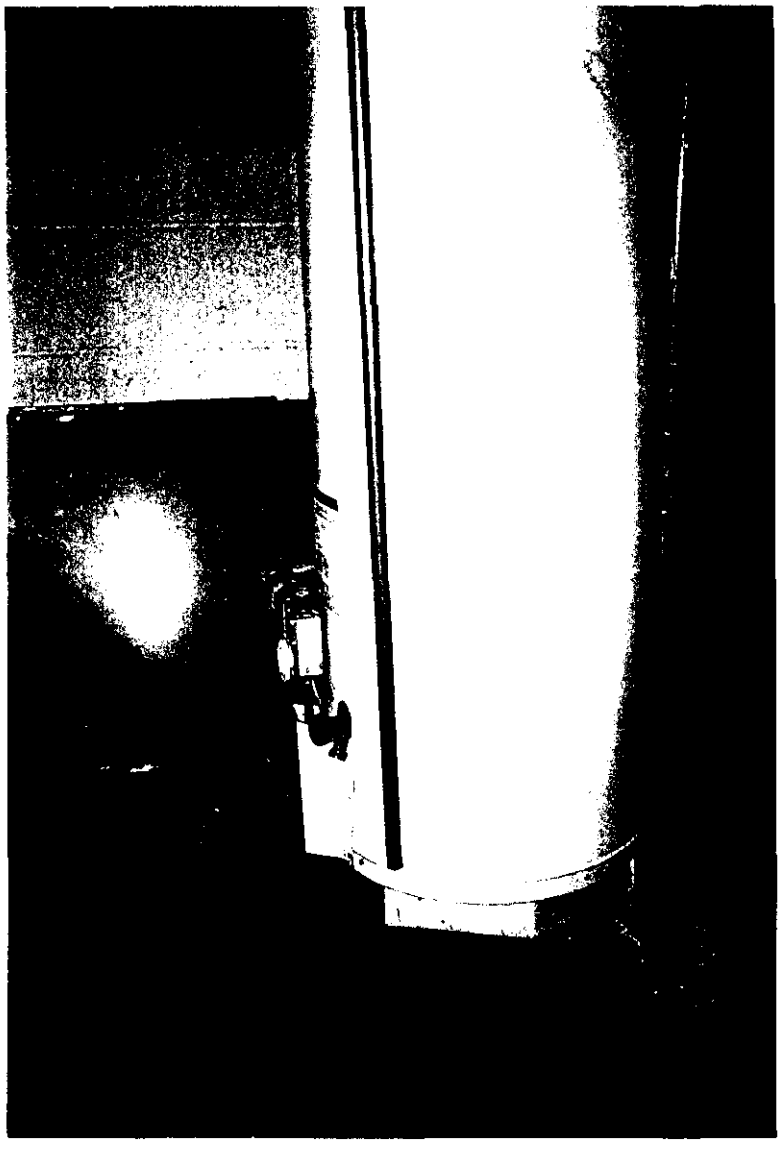
Photograph A: Unprotected frost proof wall hydrant.



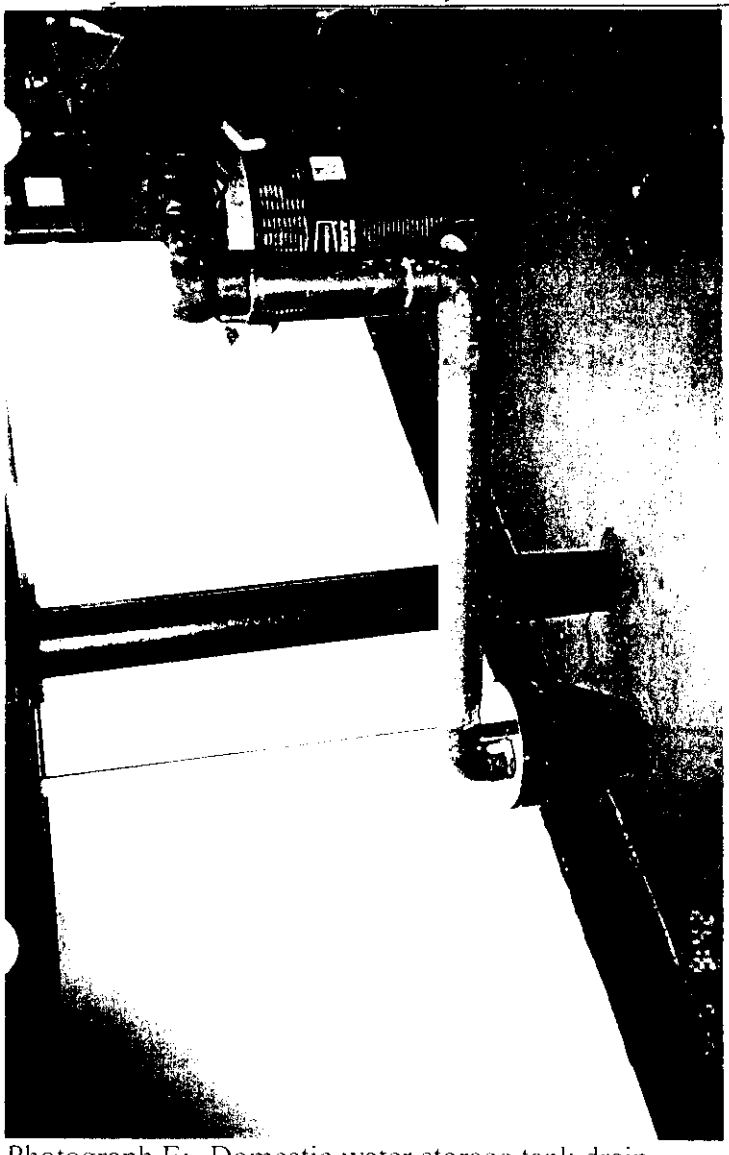
Photograph B: Unprotected frost proof wall hydrant and unprotected frost proof yard hydrant.



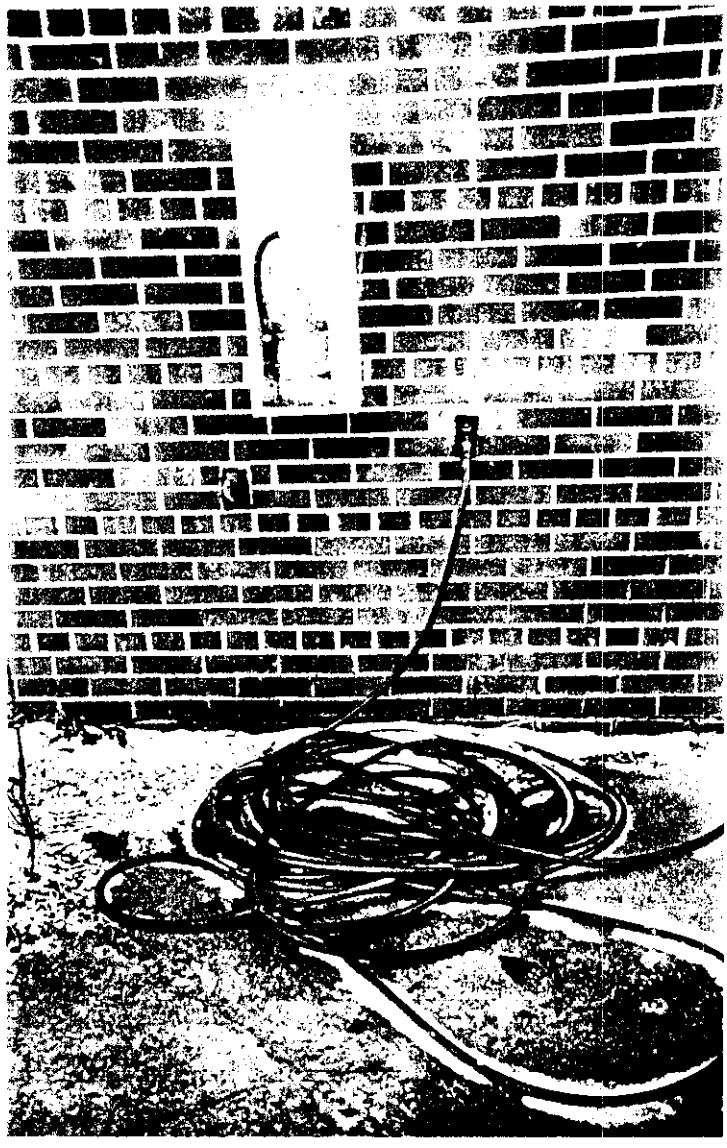
Photograph C: Unprotected hose bibb.



Photograph D: Unprotected hose bibb.



Photograph E: Domestic water storage tank drain without air gap.



Photograph F: Unprotected hose bibb.

Photograph G: Unprotected hose bibb.

R. C. Scouten, USARC, Mansfield, Ohio FACILITY OH037

DESCRIPTION	QTY	UNIT	MATERIAL PER UNIT	TOTAL MATERIAL	LABOR PER UNIT	TOTAL LABOR	TOTAL
WALL HYDRANTS	9	EA	$12.00	$108.00	$12.50	$112.50	$220.50
HOSE BIBBS	6	EA	$12.00	$72.00	$12.50	$75.00	$147.00
JANITOR'S SINK	1	EA	$12.00	$12.00	$12.50	$12.50	$24.50
REWORK STORAGE TANK DRAIN	1	EA	$20.00	$20.00	$60.00	$60.00	$80.00
3/4" MAKE-UP TO THE BOILER	1	EA	$255.00	$255.00	$60.00	$60.00	$315.00
WATER HEATER DRAIN	1	EA	$12.00	$12.00	$12.50	$12.50	$24.50
YARD HYDRANT	1	EA	$12.00	$12.00	$12.50	$12.50	$24.50
					SUBTOTAL		$836.00
					OVERHEAD 18%		$150.48
					SUBTOTAL		$986.48
					PROFIT 10%		$98.65
					TOTAL		$1,085

FINAL

OIL/WATER SEPARATOR EVALUATION REPORT

88th Regional Support Command, Ohio

DATE:	December 4, 1998
CLIENT:	U.S. Army Corps of Engineers, Norfolk District
PROJECT NAME:	Oil/Water Separator Evaluation
PROJECT LOCATION:	Regional Support Command, Ohio Customer Support Team
CONTRACT NUMBER:	DACA 65-96-D-0119, Delivery Order #20
PREPARED BY:	Jones Technologies, Inc.

LIST OF ACRONYMS

CFR	Code of Federal Regulations
CWA	Clean Water Act
GADMOD	GARIS Attribute Data Module
GARIS	Geographic Army Reserve Information System
JTI	Jones Technologies, Inc.
NPDES	National Pollutant Discharge Elimination System
O&M	operation and maintenance
OPA	Oil Pollution Act
OWS	oil/water separator
POTW	publicly owned treatment works
RCRA	Resource Conservation and Recovery Act
RSC	Regional Support Command
USARC	United States Army Reserve Center
UST	underground storage tank

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List of Attachments

1 EXECUTIVE SUMMARY

The 88th Regional Support Command Office of Environmental Management ensures that all Army Reserve mission activities are in compliance with applicable federal, state, local, and Department of Defense environmental laws, procedures, and regulations. This responsibility must be carried forth in a way that will enhance adequate combat training and related mission support, while ensuring sound environmental management.

The continued growth of federal and state environmental laws and regulations has resulted in increased Operations and Maintenance (O&M) responsibility for the Army Reserve over the past 25 years, effectively reducing the available funds to support troop missions and training. Regulatory oversight and changing rule interpretations have added to the burden. In addition, the threat of notice of violation, fine, and civil and/or criminal penalty is a constant concern to military personnel. To address these demands, every effort is being made to produce a reasonable balance among operational support, training requirements, and environmental regulations.

1.1 Project Description

The 88th Regional Support Command, Ohio Customer Support Team requested Jones Technologies, Inc. (JTI) to identify and document each oil/water separator located at Army Reserve facilities throughout Ohio. The separators were installed to support organizational level maintenance activities or area maintenance support activities. Installation dates of the separators varies. Some of the devices were installed at the time of facility construction, while others were added to a facility as requirements for pollution control devices changed. The oil/water separators are used to prevent the discharge of petroleum, oil, and lubricants during maintenance or vehicle washing activities to storm water sewer system, sanitary sewer system, or directly to surface water bodies.

With this tasking, JTI reviewed site plans and utility plans of the facility to identify to the greatest extent possible, storm drainage systems on site as well as any municipal storm system and sanitary system connections. If information regarding municipal storm and/or sanitary system connections was not available on existing plans, JTI contacted the local sewer authority to confirm connections to municipal storm or sanitary sewers.

During the site visit, JTI conducted a survey of the entire property to identify floor drains and storm drains, all associated pretreatment systems such as oil/water separators, grease traps, running traps, grit chambers, or acid neutralizing sumps. In addition, the location of the discharge point for each of the floor drains and storm drains was identified. The data collection phase was performed in accordance with the United States Army Reserve Command's "Floor Drain/Storm Drain Data Gathering Protocol'" dated June 1997. The primary objective of this protocol is to ensure that data on floor drains and storm drains at United States Army Reserve facilities are gathered in a consistent, uniform manner and format.

Finally, JTI entered the information required for all sanitary and stormwater discharges, associated pretreatment systems, and inlets into the Geographic Army Reserve Information System Attribute Data Module (GADMOD) computer program.

1.2 Summary of Status

Jones Technologies, Inc. visited 42 U.S. Army Reserve facilities located throughout Ohio from October 22, 1997 to January 15, 1998. Oil/water separator systems were present at 26 of the 42 U.S. Army Reserve facilities. An oil/water separator system includes a source drain, oil/water separator and discharge point. Accessory features of an oil/water separator system may include a control valve and holding tank to provide flexibility with the system. Table 1-1 provides an overview of the oil/water separator systems at the U.S. Army Reserve facilities.

The configuration, components and condition of the existing oil/water separator systems vary across the state. The source drains for the oil/water separators included vehicle wash facilities, grease racks, and maintenance shops. These drains may be present at either exterior or interior locations. Storm water is an additional consideration when the source drain is at an exterior location.

Nine of the 26 facilities with oil/water separators have a manually operated control valve. In theory, a soldier is to "open" the control valve prior to washing a vehicle at the wash facility. This would allow for oily water to be diverted through an oil/water separator prior to being discharged to the municipal sanitary sewer system. After the vehicle washing activity is completed, the soldier is to "close" the control valve. In this position, the valve would divert any storm water to the storm water sewer system. JTI determined only 22% (2 of the 9) control valve were functioning properly. Most of the control valves could not be turned to the "closed" position. The practice of diverting storm water through an oil/water separator may appear as a safety precaution, however, most of the oil/water separator's located at the U.S. Army Reserve facilities are not designed to handle the excess amount of water.

Six of the 26 oil/water separator systems have a holding tank (i.e. underground storage tank) to provide extra storage capacity for the separator. All six of the holding tanks are approximately 500 gallons in capacity. According to the Ohio Bureau of Underground Storage Tank Regulations (OAC 1301:7-9-02 (52)), these holding tanks meet the definition of an underground storage tank and subject regulations for annual registration, upgrade, and/or release detection.

For 23 of the 26 oil/water separator systems, the discharge points consist of municipal sanitary sewer systems. The wastewater treatment plant will treat the effluent from the oil/water separator systems. Local entities may have enforceable wastewater discharge limitations that regulate discharges to treatment plants. Local limitations often include pH, temperature, and concentrations of various organic and inorganic compounds. Major industrial operations, including the U.S. Army Reserve, which discharge to an offsite treatment plant will be subjected to pretreatment permits issued by the treatment plant, state, or federal agencies.

Table 1-1: Summary of Oil/Water Separator Systems at Army Reserve Facilities Located in Ohio

FACID	CITY	FACILITY	OIL/WATER SEPARATOR PRESENT?	SOURCE DRAIN(S)	CONTROL VALVE PRESENT?	UST PRESENT?	DISCHARGE POINT	NPDES PERMIT REQUIRED?	OWS SYSTEM IN COMPLIANCE?
OH001	Akron	Schaffner USARC	NO	N/A	N/A	N/A	N/A	N/A	N/A
OH002	Akron	Woodford USARC	YES	exterior vehicle wash facility	YES	YES	open: sanitary closed: unknown	NO	NO(1)
OH003	Bellaire	Belmont County Memorial USARC	YES	exterior vehicle wash facility	YES	YES	open: sanitary closed: outfall	NO	NO(1)
OH028	Blacklick	Taylor Station USARTF	YES	interior maintenance shop	NO	NO	sanitary	NO	YES
OH104	Brooklyn	Brooklyn USARC	NO	N/A	N/A	N/A	N/A	N/A	N/A
OH004	Bryan	Knight USARC	YES	exterior vehicle wash facility	YES	NO	open: sanitary closed: storm sewer	NO	NO (2)
OH005	Cadiz	Conaway USARC	YES	exterior vehicle wash facility	NO	NO	sanitary	NO	YES
OH006	Canal Fulton	AMSA #3	YES	interior maintenance shop	NO	NO	outfall	YES	NO (2)
OH007	Canton	Hastings USARC	YES	exterior vehicle wash facility	YES	NO	open: sanitary closed: storm sewer	NO	YES
OH089	Canton	Shepler Church USARC	YES	interior warehouse	NO	NO	sanitary	NO	YES
OH008	Chillicothe	Skaggs USARC	NO	N/A	N/A	N/A	N/A	N/A	N/A
OH009	Cincinnati	Morrow USARC	NO	N/A	N/A	N/A	N/A	N/A	N/A
OH013	Columbus	Fort Hayes USARC	NO	N/A	N/A	N/A	N/A	N/A	N/A
OH014	Columbus	Whitehall USARC	NO	N/A	N/A	N/A	N/A	N/A	N/A
OH078	Columbus	Fort Hayes, Bldg. 300	NO	N/A	N/A	N/A	N/A	N/A	N/A
OH095	Columbus	Rickenbacker ANGB	NO	N/A	N/A	N/A	N/A	N/A	N/A
OH020	Dayton	LaPointe USARC	YES	exterior vehicle wash facility exterior grease rack	NO	NO	sanitary	NO	YES
OH024	Delaware	Delaware USARC	YES	interior maintenance shop	NO	YES	sanitary	NO	NO(1)
OH025	Elyria	Elyria USARC	YES	interior warehouse	NO	NO	sanitary	NO	YES
OH030	Kenton	Parrott USARC	YES	interior maintenance shop	NO	NO	sanitary	NO	YES
OH032	Kings Mills	Kings Mills USARC	NO	N/A	N/A	N/A	N/A	N/A	N/A
OH079	Kings Mills	AMSA #59	YES	interior vehicle wash facility interior maintenance shop	NO	NO	septic system	YES	YES
OH033	Lima	Faze USARC	YES	exterior vehicle wash facility	NO	NO	sanitary	NO	YES
OH037	Mansfield	Scoutin USARC	YES	exterior vehicle wash facility	YES	YES	open: sanitary closed: storm sewer	NO	NO(1)
OH038	Marietta	Washington County Memorial USARC	YES	exterior vehicle wash facility	NO	NO	sanitary	NO	YES
OH039	Marion	Pennington USARC	YES	exterior vehicle wash facility	YES	NO	open: sanitary closed: infiltration	NO	YES
OH044	Milan	Cooney USARC	YES	exterior vehicle wash facility interior maintenance shop	NO	NO	septic system	YES	YES
OH094	Monclova	Toledo USARC	NO	N/A	N/A	N/A	N/A	N/A	N/A

NO (1) - OWS system out of compliance due to UST

NO (2) - OWS system out of compliance due to discharge

Table 1-1: Summary of Oil/Water Separator Systems at Army Reserve Facilities Located in Ohio

FACID	CITY	FACILITY	OIL/WATER SEPARATOR PRESENT?	SOURCE DRAIN(S)	CONTROL VALVE PRESENT?	UST PRESENT?	DISCHARGE POINT	NPDES PERMIT REQUIRED?	OWS SYSTEM IN COMPLIANCE?
OH103	Monclova	AMSA #165	YES	interior maintenance shop	NO	NO	sanitary	NO	YES
OH036	Northfield	AMSA #123	NO	N/A	N/A	N/A	N/A	N/A	N/A
OH049	Parma	Mote USARC	NO	N/A	N/A	N/A	N/A	N/A	N/A
OH058	Sharonville	Outcalt USARC	YES	exterior vehicle wash facility	YES	YES	open: sanitary closed: storm sewer	NO	NO(1)
OH059	Springfield	Downs USARC	YES	exterior vehicle wash facility interior maintenance shop	NO	NO	sanitary	NO	YES
OH060	Tiffin	Tiffin USARC	NO	N/A	N/A	N/A	N/A	N/A	N/A
OH063	Troy	Troy Memorial USARC	YES	exterior vehicle wash facility	NO	NO	sanitary	NO	YES
OH064	Warren	Kunkel USARC	NO	N/A	N/A	N/A	N/A	N/A	N/A
OH066	Warrensville	Huisman USARC	YES	exterior vehicle wash facility	YES	YES	open: sanitary closed: unknown	NO	NO(1)
OH018	Whitehall	88th RSC, CST #3	NO	N/A	N/A	N/A	N/A	N/A	N/A
OH101	Whitehall	AMSA #56	YES	exterior vehicle wash facility interior maintenance shop	NO	NO	sanitary	NO	YES
OH102	Whitehall	DS/GS Training Facility	NO	N/A	N/A	N/A	N/A	N/A	N/A
OH068	Wooster	Ward Memorail USARC	YES	exterior vehicle wash facility	YES	NO	open: sanitary closed: unknown	NO	YES
OH072	Zanesville	Zanesville Memorial USARC	YES	exterior vehicle wash facility interior maintenance shop	NO	NO	sanitary	NO	YES

NO (1) - OWS system out of compliance due to UST

NO (2) - OWS system out of compliance due to discharge

Cooney USARC (Milan) and AMSA #59 (Kings Mills) have a package sewage treatment plant, infiltration gallery, and chlorinator on-site to treat the sanitary sewage, including the effluent from the oil/water separator system. The oil/water separator system at AMSA #3 (Canal Fulton) discharges directly to an open ditch. A National Pollutant Discharge Elimination System (NPDES) permit needs to be obtained for the three aforementioned facilities. A NPDES permit is granted to a direct discharger who permits wastewater discharge to a watercourse in accordance with the conditions of the permit (40 CFR 403.3(1)).

1.3 Recommendations

A summary of the recommendations and alternatives for the oil/water separator systems is included in Table 1-2. Specific cost information listed Table 1-2 is provided in Attachment A. Jones Technologies contacted several manufacturers of oil/water separators. A copy of their product brochures are included Attachment B.

2 REGULATORY ASPECTS

At the Federal level, oil/water separator operation can be affected by the Clean Water Act, Oil Pollution Act, and possibly by Resource Conservation and Recovery Act.

2.1 Clean Water Act

The Clean Water Act (CWA) governs the disposal of wastewater. Authorized State agencies use CWA water quality criteria to develop site-specific permits for the discharge of wastewater to surface water bodies. General pretreatment standards have been developed under the CWA which apply to the discharge of wastewater through Publicly Owned Treatment Works (POTW) and National Pollutant Discharge Elimination System (NPDES) permitted outfalls. The CWA requires POTWs to develop local limits for discharges of nondomestic wastewater to the POTW.

The NPDES permit for wastewater discharge dictates the waste stream sampling protocol. The sampling protocol includes sampling point locations, sampling frequency, sampling parameters, and minimum and maximum concentrations for each outfall. For oil/water separators discharging to a storm drain, a NPDES permit requires periodic sampling to prevent excessive emission to the storm drain. A separate industrial waste permit is typically required for each oil/water separator.

Regulations implementing major portions of the CWA affecting oil/water separators are found in Title 40 Code of Federal Regulations (CFR) Parts 104-149 (Water Programs) and Parts 401-471 (Effluent Guidelines and Standards).

Table 1-2: Summary of Recommendations and Alternatives at Army Reserve Facilities Located in Ohio

FACID	CITY	FACILITY	RECOMMENDATIONS	COST	ALTERNATIVES	COSTS
OH002	Akron	Woodford USARC	1. The control valve should be repaired/replaced for the OWS to function properly. 2. UST should be registered with the Ohio State Fire Marshal. 3. UST tank release detection program should be initiated.	1. $4,500 2. $320 3. $2,750	1. Remove existing OWS system and replace with a grit trap connected to sanitary sewer system. 2. Remove existing OWS system and replace with a new OWS system. 3. Remove vehicle wash facility and OWS system.	1. $10,250 2. $20,500 3. $7,500
OH003	Bellaire	Belmont County Memorial USARC	1. The control valve should be repaired/replaced for the OWS to function properly. 2. UST should be registered with the Ohio State Fire Marshal. 3. UST tank release detection program should be initiated.	1. $4,500 2. $320 3. $2,750	1. Remove existing OWS system and replace with a grit trap connected to sanitary sewer system. 2. Remove existing OWS system and replace with a new OWS system. 3. Remove vehicle wash facility and OWS system.	1. $10,250 2. $20,500 3. $7,500
OH028	Blacklick	Taylor Station USARTF	1. The contents (water, oil, and solid debris) should be removed. 2. Maintenance personnel should discontinue the practice of performing parts cleaning near the trench drain.	1. $1,500 2. $0	1. None	1. $0
OH004	Bryan	Knight USARC	1. The storm water line should be repaired. 2. The control valve should be repaired/replaced for the OWS to function properly. 3. UST tank release detection program should be initiated.	1. TBD 2. $4,500 3. $2,750	1. Remove existing OWS system and replace with a grit trap connected to sanitary sewer system. 2. Remove existing OWS system and replace with a new OWS system. 3. Remove vehicle wash facility and OWS system.	1. $10,250 2. $20,500 3. $7,500
OH005	Cadiz	Conaway USARC	1. The contents (water, oil, and solid debris) should be removed.	1. $1,500	1. None	1. $0
OH006	Canal Fulton	AMSA #3	1. Obtain and comply with an NPDES permit. 2. Develop a program to periodically inspect the condition of the OWS system, especially the cracks in concrete blocks. 3. The contents (water, oil, and solid debris) of the OWS should be removed.	1. $4,220 2. $920 3. $1,500	1. Remove existing OWS system and replace with a grit trap connected to sanitary sewer system. 2. Remove existing OWS system and replace with a new OWS system. 3. Remove vehicle wash facility and OWS system.	1. $10,250 2. $20,500 3. $7,500

Table 1-2: Summary of Recommendations and Alternatives at Army Reserve Facilities Located in Ohio

FACID	CITY	FACILITY	RECOMMENDATIONS	COST	ALTERNATIVES	COSTS
OH007	Canton	Hastings USARC	1. The control valve should be repaired/replaced for the OWS to function properly.	1. $4,500	1. Remove existing OWS system and replace with a grit trap connected to sanitary sewer system. 2. Remove existing OWS system and replace with a new OWS system. 3. Remove vehicle wash facility and OWS system.	1. $10,250 2. $20,500 3. $7,500
OH089	Canton	Shepler Church USARC	1. The contents (water, oil, and solid debris) should be removed.	1. $1,500	1. None	
OH020	Dayton	LaPointe USARC	1. OWS needs repaired - baffles missing.	1. $1,200	1. Remove existing OWS system and replace with a grit trap connected to sanitary sewer system. 2. Remove existing OWS system and replace with a new OWS system. 3. Remove vehicle wash facility and OWS system.	1. $10,250 2. $20,500 3. $7,500
OH024	Delaware	Delaware USARC	1. UST should be registered with the Ohio State Fire Marshal. 2. UST tank release detection program should be initiated.	1. $320 2. $2,750	1. Remove existing OWS system and replace with a grit trap connected to sanitary sewer system. 2. Remove existing OWS system and replace with a new OWS system. 3. Remove vehicle wash facility and OWS system.	1. $10,250 2. $20,500 3. $7,500
OH025	Elyria	Elyria USARC	1. None	1. $0	1. None	1. $0
OH030	Kenton	Parrott USARC	1. None	1. $0	1. None	1. $0
OH079	Kings Mills	AMSA #59	1. Develop a program to periodically inspect the condition of the OWS system, especially the high-level indicator alarm. 2. The contents (water, oil, and solid debris) of the OWS should be removed.	1. $920 2. $1,500	1. None	1. $0
OH033	Lima	Faze USARC	1. The contents (water, oil, and solid debris) should be removed.	1. $1,500	1. None	1. $0

Table 1-2: Summary of Recommendations and Alternatives at Army Reserve Facilities Located in Ohio

FACID	CITY	FACILITY	RECOMMENDATIONS	COST	ALTERNATIVES	COSTS
OH037	Mansfield	Scoutin USARC	1. The control valve should be repaired/replaced for the OWS to function properly. 2. UST should be registered with the Ohio State Fire Marshal. 3. UST tank release detection program should be initiated. 4. The contents (water, oil, and solid debris) should be removed.	1. $4,500 2. $320 3. $2,750 4. $1,500	1. Remove existing OWS system and replace with a grit trap connected to sanitary sewer system. 2. Remove existing OWS system and replace with a new OWS system. 3. Remove vehicle wash facility and OWS system.	1. $10,250 2. $20,500 3. $7,500
OH038	Marietta	Washington County Memorial USARC	1. OWS needs repaired - baffles missing. 2. The contents (water, oil, and solid debris) should be removed.	1. $1,200 2. $1,500	1. Remove existing OWS system and replace with a grit trap connected to sanitary sewer system. 2. Remove existing OWS system and replace with a new OWS system. 3. Remove vehicle wash facility and OWS system.	1. $10,250 2. $20,500 3. $7,500
OH039	Marion	Pennington USARC	1. None	1. $0	1. Remove existing OWS system and replace with a grit trap connected to sanitary sewer system. 2. Remove existing OWS system and replace with a new OWS system. 3. Remove vehicle wash facility and OWS system.	1. $10,250 2. $20,500 3. $7,500
OH044	Milan	Cooney USARC	1. The contents (water, oil, and solid debris) should be removed. 2. Excavate soil above OWS to obtain access for further evaluation of system.	1. $1,500 2. $2,580	1. Remove existing OWS system and replace with a grit trap connected to sanitary sewer system. 2. Remove existing OWS system and replace with a new OWS system. 3. Remove vehicle wash facility and OWS system.	1. $10,250 2. $20,500 3. $7,500
OH103	Monclova	AMSA #165	1. The contents (water, oil, and solid debris) should be removed.	1. $1,500	1. None	1. $0
OH058	Sharonville	Outcalt USARC	1. UST should be registered with the Ohio State Fire Marshal. 2. UST tank release detection program should be initiated.	1. $320 2. $2,750	1. Remove existing OWS system and replace with a grit trap connected to sanitary sewer system. 2. Remove existing OWS system and replace with a new OWS system. 3. Remove vehicle wash facility and OWS system.	1. $10,250 2. $20,500 3. $7,500

Table 1-2: Summary of Recommendations and Alternatives at Army Reserve Facilities Located in Ohio

FACID	CITY	FACILITY	RECOMMENDATIONS	COST	ALTERNATIVES	COSTS
OH059	Springfield	Downs USARC	1. None	1. $0	1. None	1. $0
OH063	Troy	Troy Memorial USARC	1. The pipe between the vehicle wash facility and OWS should be repaired.	1. $2,750	1. Remove existing OWS system and replace with a grit trap connected to sanitary sewer system. 2. Remove existing OWS system and replace with a new OWS system. 3. Remove vehicle wash facility and OWS system.	1. $10,250 2. $20,500 3. $7,500
OH066	Warrensville	Huisman USARC	1. The control valve should be repaired/replaced for the OWS to function properly. 2. UST should be registered with the Ohio State Fire Marshal. 3. UST tank release detection program should be initiated.	1. $4,500 2. $320 3. $2,750	1. Remove existing OWS system and replace with a grit trap connected to sanitary sewer system. 2. Remove existing OWS system and replace with a new OWS system. 3. Remove vehicle wash facility and OWS system.	1. $10,250 2. $20,500 3. $7,500
OH101	Whitehall	AMSA #56	1. None	1. $0	1. None	1. $0
OH068	Wooster	Ward Memorail USARC	1. The control valve should be repaired/replaced for the OWS to function properly.	1. $4,500	1. Remove existing OWS system and replace with a grit trap connected to sanitary sewer system. 2. Remove existing OWS system and replace with a new OWS system. 3. Remove vehicle wash facility and OWS system.	1. $10,250 2. $20,500 3. $7,500
OH072	Zanesville	Zanesville Memorial USARC	1. The contents (water, oil, and solid debris) should be removed.	1. $1,500	1. None	1. $0

2.2 Oil Pollution Act

The Oil Pollution Act (OPA) establishes liability for removal costs and damages for those parties responsible for a vessel or facility from which oil is discharged, or which poses the substantial threat of discharge of oil, into or upon navigable waters or adjoining shorelines or the exclusive economic zone.

Regulations implementing portions of the OPA which could affect oil/water separators include Title 40 CFR Part 110, "Discharge of Oil," and Part 112, "Oil Pollution Prevention." Title 40 CFR Part 112 establishes requirements for the preparation and implementation of Spill Prevention Control and Countermeasure Plans.

2.3 Resource Conservation and Recovery Act

The Resource Conservation and Recovery Act (RCRA) establishes the requirements to regulate and control the generation, treatment, storage, transportation, and disposal of solid and hazardous wastes. RCRA also establishes requirements to regulate underground storage tanks containing certain substances, including oil and hazardous wastes. RCRA can have serious impacts on use of oil/water separators in several ways.

Underground oil/water separators and/or their holding tanks can be designated as regulated underground storage tanks due to the oil contained in holding reservoirs or tanks. This can impose stringent controls and management and reporting requirements under Title 40 CFR Part 280, "Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks (UST)," which include physical requirements such as double walls or linings, leak detection devices, and monitoring wells.

Oil/water separator sludge and oils can become contaminated with solvents, halogens, and/or metals if improperly used. A leaking oil/water separator containing these hazardous wastes can result in designation as a solid waste management unit and be subject to corrective actions under RCRA regulations found in Title 40 CFR Subpart F, "Releases from Solid Waste Management Units." Corrective actions generate numerous investigative and potential cleanup requirements, not to mention possible notices of violation.

2.4 State and Local

State and local regulatory activities may have additional requirements more stringent than Federal levels.

3 OVERVIEW OF OIL/WATER SEPARATOR SYSTEMS

Oil/water separators are devices commonly used as a method to separate oily waste products from wastewater streams. They are typically installed in industrial and maintenance areas to receive and separate oils at low concentrations from wastewater generated during industrial processes such as vehicle maintenance and washing. However, oil/water separators are not

automatic insurance that will guarantee oils will not enter a storm water drainage system or sanitary sewer system. Oil/water separators are not designed to separate high concentrations of oil such as from a spill or pouring waste oil down the drain.

3.1 Operation of an Oil/Water Separator

Oil/water separators use several techniques, depending on the type and application or intended use of the separation system. The performance of these systems is based primarily on the relatively low solubility of petroleum products in water and the difference between the specific gravity of water and the specific gravity of petroleum compounds. Gravity oil/water separators are not designed to separate other products such as solvents, detergents, or metals. The illustration below represents a very simple example of the separation phases in a gravity oil/water separator.

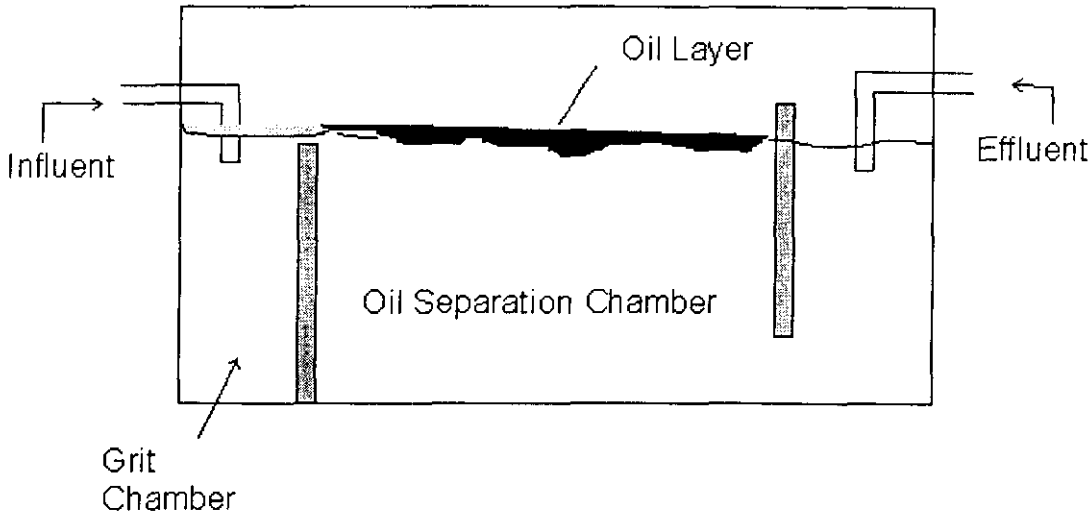


Figure 3-1: Oily wastewater influent is introduced to the inlet of the separator. The first baffle stabilizes water turbulence and solids are settled and accumulated as sludge in the bottom of the separator. As the wastewater flows to the second chamber located at the center of the separator, oil droplets rise to the top of the water and are prevented from exiting by a second baffle. Thus, as illustrated, solid sludge heavier than water can be collected and oil droplets lighter than water can be accumulated on top of the wastewater and routed to a holding chamber or tank

3.2 Factors Affecting Oil/Water Separator Performance

The basic operation of an oil/water separator is simple; however, many factors will have direct effects on its efficiency. The following elements have a direct impact on the efficiency, use, and management of oil/water separators:

3.2.1 Frequency and Intensity

The longer the residence time of the waste stream in the oil/water separator, the more efficient it will be at separating oil. Contaminated water enters a receiving chamber of the separator where the flow rate of the wastewater is reduced allowing heavy solids to settle while larger oil droplets float to the top of the compartment. Further separation continues in the separation chamber where smaller droplets of oil separate from the water and join the larger droplets previously separated. The oil layer, which has accumulated on the top of the water spills over an oil skimmer into a holding area and the wastewater then, flows, or is pumped, to the storm water or sanitary sewer system. A longer separation time increases the efficiency of the oil/water separator by allowing a greater amount of oil to rise to the top of the wastewater. Therefore, decreasing the wastewater flow rate through the separator will increase the efficiency of the separator.

3.2.2 Design Capacity

An oil/water separator has a finite capacity for storage of oils and sludge accumulated during its operation. Quite often the oil/water separator holding compartments can become saturated or full, allowing contamination to flow freely into the wastewater effluent exiting the separator system. Ensuring the separator capacity meets the needs of the process will aid separation efficiency.

3.2.3 Emulsifying Agents

Detergents and soaps designed to remove oily grime from dirty weapon systems, vehicles, or other components can adversely affect oil/water separator operation. These agents are designed to increase solvency of oily grime in water. Hence, the oil droplets take longer to separate from water reducing separation efficiency. Overzealous use of detergents can degrade efficiency by completely emulsifying oil in the wastewater stream, thus allowing it to pass through the oil/water separator unaffected.

3.2.4 Periodic Maintenance Practices

Sludge and oils, which are not periodically pumped from separator holding tanks, can render it inoperative. Additionally, leaks from oil/water separators can result in environmental pollution, which can potentially require investigative studies and extensive cleanup. A periodic maintenance plan can prevent contaminated discharges from the oil/water separator system.

3.2.5 Type of Oil/Water Separator System

An oil/water separator designed and installed for a past mission requirement may not be suitable for present maintenance operations. These units are susceptible to unnoticed abuse by maintenance activities. A wash rack with an oil/water separator designed to capture contaminants from a small vehicle will not handle larger wastewater volumes from a larger vehicle. Additionally, mission changes can result in changes in the effluent characteristics of

the wastewater being discharged to an oil/water separator (i.e., wastewater with solvents or emulsification versus oil). Mission conversions can necessitate modification of storm water/wastewater drainage systems. Oil/water separators not having a storm water diversion system that allows storm water to be diverted from the separation system can also impair efficiency.

3.2.6 Contaminants Contained in the Wastewater Stream

Heavy metals and dirt in the wastewater will settle into the sludge at the bottom of the oil/water separator receiving compartments. The sludge could be regulated as a hazardous waste if levels exceed Resource Conservation and Recovery Act (RCRA) or State hazardous waste levels. Solvents or fuels may also be retained in oil/water separator sludge.

4 EXPLANATION OF STATUS REPORTS

Jones Technologies, Inc. has prepared a "Status Report" for each of the Army Reserve facilities with oil/water separators. Each report details the condition of the oil/water separator, provides recommendations concerning the continued operation of the separator. In addition, at least one photograph of the discharge location (if an outfall to a surface water body) and a computer-generated diagram of each oil/water separator with respect to its location on the facility and the connections to the system. The diagrams were completed utilizing the nomenclature guidelines set forth by the Tri-Services Commission. Building, floor drain, storm drain, sanitary lines, storm water lines, associated pretreatment systems, and discharges were identified in accordance with the United States Army Reserve Command's "Floor Drain/Storm Drain Data Gathering Protocol'" dated June 1997.

The following is a brief explanation of the sections in each of the Status Reports located in Attachment C. When appropriate, JTI used the same terminology as the database support software (see Section 5).

4.1 Facility

The name and address of the facility is listed.

4.2 Location of Oil/Water Separator

A brief narrative description is provided including where the oil/water separator is located at the site and how it can be identified at the surface.

4.3 Source Drains

This section is a brief narrative description of the floor and/or storm drains that supply the oily water to the separator. If the drain is located at a vehicle wash facility or inside a maintenance shop, it is also noted in this section.

4.3.1 Potential Contaminants

This is a narrative description of the types of contaminants that could potentially enter the drain based upon the proximity of the contaminant and the design of the inlet. Typical potential contaminants include: antifreeze; battery acid; degreasing solvents; diesel fuel; fuel oil; gasoline; hazardous waste; petroleum, oil, and lubricants; unknown; and waste oil.

4.4 Discharge

This section is a narrative description describing the discharge location of the oil/water separator system, which includes the source drain, control valve, and the separator. If a system had a control valve, the discharge of the source drain and oil/water separator is discussed. However, field verification of the discharge was not always possible due to several factors: malfunctioning control valves, excess silt in source drain, and broken buried lines. JTI has noted where these difficulties were encountered.

4.5 Oil/Water Separator Data

This is information specific about the oil/water separator.

4.5.1 Status

Based on a database support software picklist. Options include: blocked, currently in use, potentially operational, and removed from service.

4.5.2 Size

Provides the physical dimensions (in feet) of the oil/water separator, including the depth.

4.5.3 Total Capacity

Provides the total volume (in gallons) of the oil/water separator.

4.5.4 Oil Storage Capacity

Provides the volume (in gallons) of oil the oil/water separator or oil holding tank is capable of storing.

4.5.5 Construction Materials

Based on a database support software picklist. Options include: steel, wood, PVC. A few reports have "concrete" listed since no units are currently assigned to the facility. This description will have to be added to the database support software.

4.5.6 Condition

Based on a database support software picklist. Options include: good condition, needs maintenance, and fair condition.

4.5.7 Level of Use

Based on a database support software picklist. Options include: daily, weekly, monthly. A few reports have "never" listed since no units are currently assigned to the facility.

4.5.8 Maintenance Schedule

Provides information regarding the current level of liquid in the oil/water separator and the date of last cleaning, if known.

4.5.9 Control Valve

A brief narrative description of the control valve, if present.

4.5.10 Oil Holding Tank

A brief narrative description of the oil holding tank, if present.

4.6 Regulatory Compliance Status

Based on a database support software picklist. Options include: could not be determined, in compliance, out of compliance, and potentially out of compliance. Regulatory citations are provided in this section if the oil/water separator system is out of compliance and potentially out of compliance.

4.7 Recommendations

Jones Technologies, Inc. has provided a list of actions required to make the oil/water separator system function properly or to bring the system into compliance. Additional discussion of the recommendations is located in Section 1.3 of this report.

4.8 Alternatives

Several alternatives that may be implemented to upgrade the operations of the oil/water separator are described. Additional discussion of the alternatives is located in Section 1.3 of this report.

5 DATABASE SUPPORT

Geographic Army Reserve Information System (GARIS) is an information management tool for the environmental and facilities management of, and master planning for, Army Reserve facilities. GARIS Attribute Data Module (GADMOD) is a data/metadata entry application that provides for direct input of the floor drain/storm drain survey results into database tables for subsequent upload to the host database system.

At the request of the 88th Regional Support Command, Ohio Customer Support Team, JTI used GADMOD to capture field data in an electronic format. A large number of data elements (i.e. floor drains, storm drains, associated pretreatment systems, and discharge points) are selected from "picklists" so that a minimal amount of keying in is necessary. Data entry screens for capturing metadata (i.e. data about the data) are also included in GADMOD. To simplify entry, metadata fields are divided into five categories: common, facility specific, source, field survey, and graphic. A copy of the GADMOD User Guide is included Attachment D.

Oil/Water Separator Evaluation

Facility: SSG Roy C. Scoutin USARC (FAC ID: OH037)
217 Hedges Street
Mansfield, OH 44903-2697

Location of Oil/Water Separator (OWS): The oil/water separator is located in the military equipment parking area on the east side of the maintenance shop. The oil/water separator is identified at the surface by a rectangular manhole cover. An underground storage tank is located just west of the OWS (See Photo 1). The UST is connected to the OWS and collects the excess oil once it has been separated.

Source Drain(s): The oil/water separator is connected to a drain located outside at the vehicle wash facility.

Potential Contaminants: The potential contaminants would include oil and grease from vehicle washing.

Discharge: A two-way control valve determines the discharge flow from the drain at the vehicle wash facility (See Photo 2). When the valve is in the "open" position the drain empties into the oil/water separator prior to discharging to the city sanitary sewer system. The facility connection to the sanitary system is under the entrance road before turning west toward Hedges Street.

When the valve is in the "closed" position the drain empties into the catch basin in the middle of the military equipment parking prior to being discharged to the city storm water sewer system.

At the time of the site visit, the drain only discharged to the city storm water sewer system due to a malfunctioning control valve.

Oil/Water Separator Data:

Status: Potentially operational.

Size: 2'6" x 2'6" x 5' in depth.

Total Capacity: 230 gallons.

Oil Storage Capacity: 500 gallons (underground storage tank).

Construction Materials: Steel (See Photo 3).

Condition: Needs maintenance.

Level of Use: Monthly.

Maintenance Schedule: Date of last clean out was March 5, 1995. During the site visit Jones Technologies, Inc. determined the underground storage tank is approximately 100% (500 gallons) full of liquid.

Control Valve: A control valve allows the discharge from the drain to be directed to either the city storm sewer system or the oil/water separator prior to the city sanitary sewer system. The control valve is currently not operational. Jones Technologies, Inc. performed a field test of the OWS confirmed the malfunctioning valve. Water is discharged to the storm water sewer system when the valve is in the "open" and "closed" positions.

Oil Holding Tank: The oil is transferred to a 500-gallon underground storage tank (See Photo 4). Additional information regarding the construction and installation of the underground storage tank was not obtainable during the site visit.

Regulatory Compliance Status: Potentially out of compliance. Jones Technologies, Inc. was unable to obtain specific information regarding the underground storage tank.

The following Ohio Underground Storage Tank Regulations need to be met for the underground storage tank to be considered in compliance.

- OAC 1301:7-9-04(B)(1) requires all underground storage tanks containing petroleum or other regulated substances to be registered with the State Fire Marshal annually, no later than the first day of July.
- OAC 1301:7-9-06(C)(1) requires owners and operators of all existing petroleum UST systems shall, on or before December 22, 1998, must replace, upgrade, or close substandard UST systems.
- OAC 1307:7-9(C)(1) requires facilities that have petroleum UST systems must provide release detection meeting specific requirements.

Recommendations: The following is a list of actions required to make to oil/water separator system function properly or to bring the system into compliance.

- The control valve should be repaired/replaced for the oil/water system to function as designed ($4,500).
- The underground storage tank should be registered with the Ohio State Fire Marshal ($320).

- An underground storage tank release detection program (such as manual tank gauging) including documentation should be initiated ($2,750).
- The contents (water, oil, and solid debris) of the oil/water separator should be removed. Water should be added to the oil/water separator via the source drains until a normal water level is established in the oil/water separator ($1,500).

Alternatives: The following is a list of alternatives that may be implemented to upgrade the operations.

- Remove the existing oil/water separator, underground storage tank, and control valve and replace with a new grit trap connected to sanitary sewer system ($10,250).
- Remove the existing oil/water separator and replace it with a new oil/water separator ($20,500).
- Remove the vehicle wash facility, oil/water separator, underground storage tank, and control valve. Unit vehicle washing could be performed at a local commercial vehicle wash facility ($7,500).

Photographs:

Photo 1 – Location of drain at vehicle wash facility, control valve (circular cover), oil/water separator (rectangular manhole cover), and underground storage tank (left of the oil/water separator).

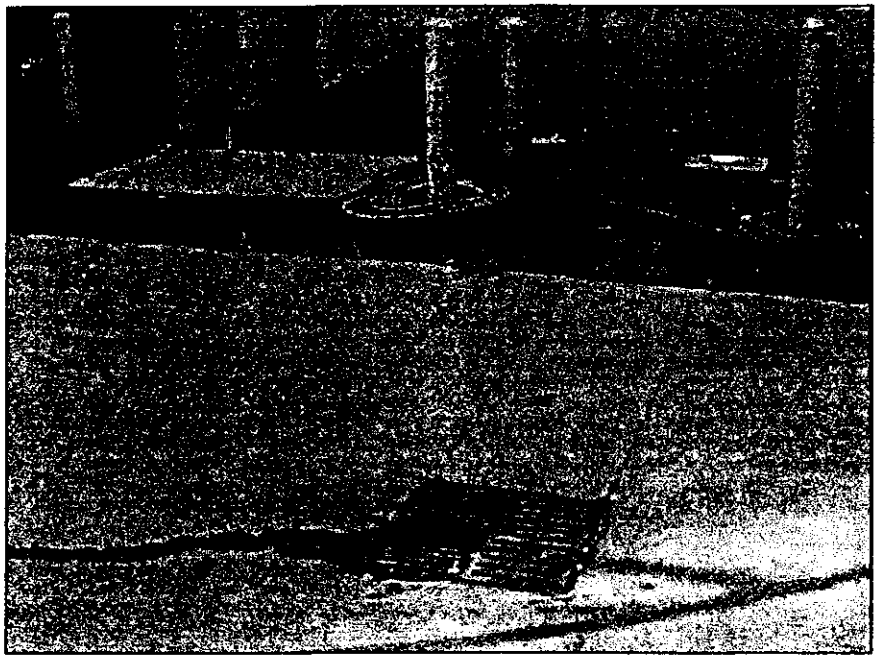


Photo 2 – Control valve in need of maintenance.

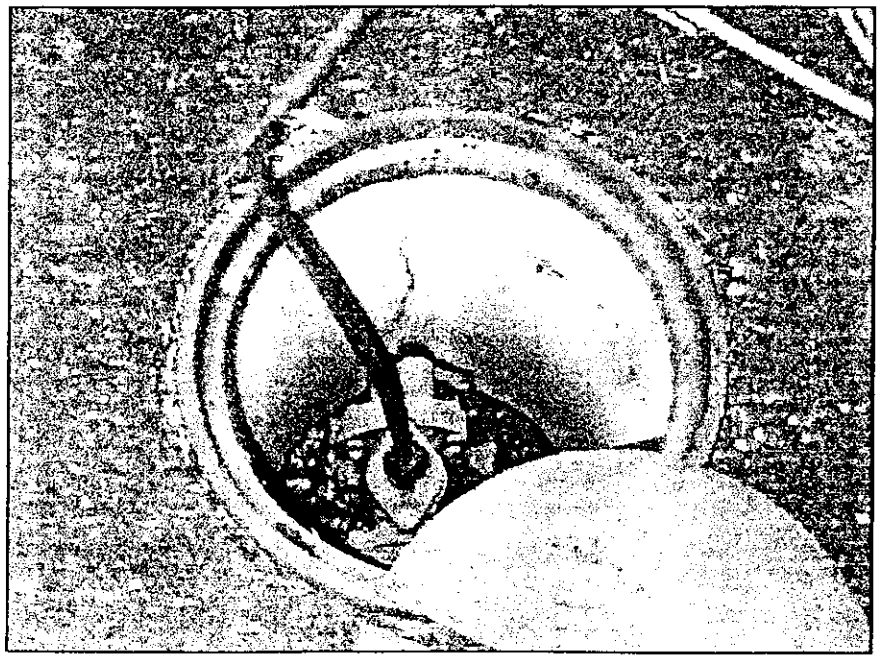


Photo 3 – Interior view of oil/water separator.

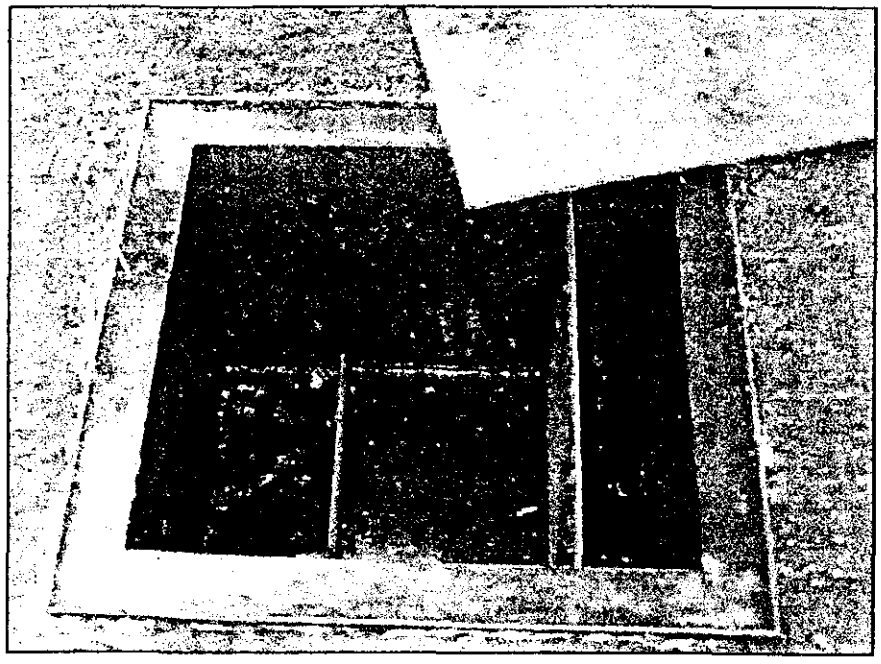
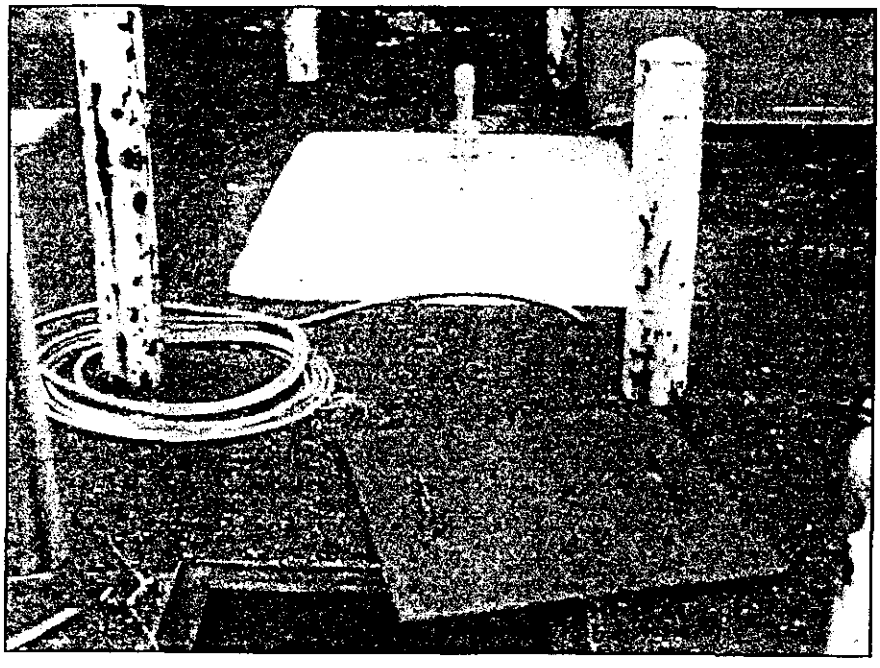


Photo 4 – Underground storage tank location.



Ohio Department of Commerce

Division of State Fire Marshal
Bureau of Underground Storage Tank Regulation
6606 Tussing Road • P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942
www.com.state.oh.us

Bob Taft
Governor

Gary C. Suhadolnik
Director

June 15, 1999

US ARMY RESERVE
506 ROEDER CIRCLE
FORT SNELLING MN 55111-4009

SSG ROY CLIFTON
SCOUTEN USARC
271 HEDGES ST
MANSFIELD OH 44903
RICHLAND COUNTY
INCIDENT # 7090276-00

RE: NO FURTHER ACTION STATUS REGARDING CLOSURE REQUIREMENTS

Dear Sir/Madam:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed all information submitted for this incident number. Based on this information, BUSTR requires no further action involving closure under Ohio Administrative Code 1301:7-9-12.

Thank you for your cooperation. If you have any questions, please contact our office at (614) 752-7938.

Sincerely,

Kelly Gill
Corrective Actions Supervisor

KJG:anc

xc: Site File
Chief Keith Ransom, Mansfield Fire Department

May 27, 1999

Division of State Fire Marshall
Bureau of Underground Storage Tank Regulations
P. O. Box 687
Reynoldsburg, OH 43068-0687

Attention: Kelly Gill

Subject: Facility No. 702643
SSG Roy Clifton Scouten USARC, Mansfield, OH
Supplemental Information for UST Closure Reports

Dear Mr. Gill:

A few months ago, a UST Closure Report was submitted for the above-referenced facility. At that time, manifests for disposal of UST contents and waste oil sludge were not available. However, Mr. Tim Lutz of BUSTR indicated that the report should be submitted at that time and the manifests should be forwarded later. The required manifests and analytical results are enclosed now. Please attach these to the referenced Closure Report and issue a final closure certification for this tank.

Please direct written correspondence to:

Mr. Kurt Zacharias
Environmental Protection Specialist
Commander, 88th RSC
506 Roeder Circle
Fort Snelling, MN 55111-4009

If you have questions about the enclosed information please call me at 312-831-3215.

Very truly yours,

David C. Scharre
Project Manager

cc: Kurt Zacharias

OEPA Facility No. 702643

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No. 000002 | 2. Page 1 of

GENERATOR

3. Generator's Name and Mailing Address JSARC 217 HEDGES STREET MANSFIELD, OHIO 44903-2697

4. Generator's Phone (419) 525-1893

5. Transporter 1 Company Name	6. US EPA ID Number	A. Transporter's Phone
FOUR SEASONS ENVIRONMENTAL	WCO 99 12 7 7 3 2	614-836-1300
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	C. Facility's Phone
FOUR SEASONS ENV. 4700 HOMER OHIO LANE LEWISPORT, OHIO 43735	OHD 98 699 813	614-836-1300

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON-HAZARDOUS - NON REGULATED WASTE OIL + WATER	12	DM	600	GAL
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above	E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

24 HR EMERGENCY # 614-836-1300

P.O. 964.01

JOB # 9994050

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
RICHARD W BENNETT		03	18	99

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Jeff Iles		03	18	99

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

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

Printed/Typed Name	Signature	Month	Day	Year
Larry K McGinnis Jr		4	13	99

Printed by J. J. KELLER & ASSOCIATES, INC.
Neenah, WI 54957-0368

ORIGINAL – RETURN TO GENERATOR

FOUR SEASONS
ENVIRONMENTAL
A GREAT LAKES CHEMICAL CORPORATION COMPANY

OEPA Facility No. 7C 2643

4700 HOMER OHIO LANE • GROVEPORT, OH 43125 • (614) 836-1300 • FAX (614) 836-23

MIDWEST REGIONAL OFFICE
4700 Homer Ohio Lane
Groveport, Ohio 43125

Phone: (614) 836-1300
Facsimile: (614) 836-2304

Greensboro, NC Charlotte, NC Baton Rouge, LA Houston, TX Nashville, TN

Facsimile Transmittal Cover Sheet

To: Kendall Sattler

Company: _____

Phone Number: _____ Fax Number: 513-326-1550

From: Gary M. Grimm

Date: _____

Subject: _____

Number of Pages (Including cover sheet): _____ Original to be mailed? Yes ___ No ___

Comments: We now have all the tests back.

ADVANCED ANALYTICS LABORATORIES, INC.
1025 CONCORD AVENUE
COLUMBUS, OHIO 43212
(614) 299-9922 FAX (614) 299-4002
Analysis & Testing · Quality Control Programs · Research & Development

March 31, 1999

Four Seasons Environmental
4700 Homer Ohio Lane
Groveport, OH 43125
ATTN: Lester Douglas

AALI ORDER ID: 7036
APPROVAL #: EPA Certification 4043
CLIENT PROJECT: BHE
CLIENT PO NO.: 13626

DATE COLLECTED: 3/23/99
DATE RECEIVED: 3/25/99
DATE REPORTED: 3/31/99

TEST RESULTS

Test: Flashpoint
Method: 1010

AALI Sample Number	Client Sample Identification	Flashpoint Result	Detection Limit	Date Collected	Date Analyzed
31803	01/02	> 200 deg. F		3/23/99	3/31/99

Respectfully submitted,

Bradden Bigelow, Lab Manager

ADVANCED ANALYTICS LABORATORIES, INC.
1025 CONCORD AVENUE
COLUMBUS, OHIO 43212
(614) 299-9922 FAX (614) 299-4002
Analysis & Testing - Quality Control Programs - Research & Development

March 29, 1999

Four Seasons Environmental
4700 Homer Ohio Lane
Groveport, OH 43125
ATTN: Lester Douglas

AALI ORDER ID: 7036
APPROVAL #: EPA Certification 4043
CLIENT PROJECT: BIE
CLIENT PO NO.: 13626

DATE COLLECTED: 3/23/99
DATE RECEIVED: 3/25/99
DATE REPORTED: 3/29/99

TEST RESULTS

Test: pH
Method: 150.1

AALI Sample Number	Client Sample Identification	pH Result	Detection Limit	Date Collected	Date Analyzed
31803	01/02	10.1 S.U.		3/23/99	3/25/99

Respectfully submitted,

Bradden Bigelow, Lab Manager

ADVANCED ANALYTICS LABORATORIES, INC.
1025 CONCORD AVENUE
COLUMBUS, OHIO 43212
(614) 299-9922 FAX (614) 299-4002
Analysis & Testing - Quality Control Programs - Research & Development

April 5, 1999

Four Seasons Environmental
4700 Homer Ohio Lane
Groveport, OH 43125
ATTN: Lester Douglas

AALI ORDER ID: 7030
APPROVAL #: EPA Certification 4043
CLIENT PROJECT: BHF
CLIENT PO NO.: 13626

DATE COLLECTED: 3/23/99
DATE RECEIVED: 3/25/99
DATE ANALYZED: 4/2/99
DATE REPORTED: 4/5/99

TEST RESULTS

Test Method: 608/8080

AALI Sample No.: 31803 **Client Sample ID:** 01/02

Compound	Result	Detection Limit
4,4'-DDD	1 µg/L	1
4,4'-DDE	1 µg/L	1
4,4'-DDT	1 µg/L	1
Aldrin	1 µg/L	1
Alpha BHC	1 µg/L	1
Beta BHC	1 µg/L	1
Chlordane	1 µg/L	1
Delta BHC	1 µg/L	1
Dieldrin	1 µg/L	1
Endosulfan I	1 µg/L	1
Endosulfan II	1 µg/L	1
Endosulfan Sulfate	1 µg/L	1
Endrin	1 µg/L	1
Endrin Aldehyde	1 µg/L	1
Gamma BHC	1 µg/L	1
Heptachlor	1 µg/L	1
Heptachlor Epoxide	1 µg/L	1
PCB 1016	1 µg/L	1
PCB 1221	1 µg/L	1
PCB 1232	1 µg/L	1
PCB 1242	1 µg/L	1
PCB 1248	1 µg/L	1
PCB 1254	1 µg/L	1
PCB 1260	1 µg/L	1
Toxaphene	1 ug/L	1

ADVANCED ANALYTICS LABORATORIES, INC.
1025 CONCORD AVENUE
COLUMBUS, OHIO 43212
(614) 299-9922 FAX (614) 299-4002
Analysis & Testing - Quality Control Programs - Research & Development

TEST RESULTS

Test Method: 608/8080

AALI Sample No.: 31803 Client Sample ID: 01/02

Compound	Result	Detection Limit

Respectfully submitted,

Bradden Bigelow, Lab Manager

ADVANCED ANALYTICS LABORATORIES, INC.
1025 CONCORD AVENUE
COLUMBUS, OHIO 43212
(614) 299-9922 FAX (614) 299-4002
Analysis & Testing · Quality Control Programs · Research & Development

April 1, 1999

Four Seasons Environmental
4700 Homer Ohio Lane
Groveport, OH 43125
ATTN: Lester Douglas

AALI ORDER ID: 7036
APPROVAL #: EPA Certification 4043
CLIENT PROJECT: BHE
CLIENT PO NO.: 13626

DATE COLLECTED: 3/23/99
DATE RECEIVED: 3/25/99
DATE REPORTED: 4/1/99

TEST RESULTS

AALI Sample No.: 31803 **Client Sample ID:** 01/02

Compound	Result	Test Method:	Detection Limit	Analysis Date
Silver, TCLP	<0.2 mg/L	7760A	0.2	3/31/99
Arsenic, TCLP	<0.005 mg/L	7060	0.005	3/31/99
Barium, TCLP	<5.0 mg/L	3010A/7080	5	3/31/99
Cadmium, TCLP	0.1 mg/L	3010A/7130	0.1	3/31/99
Chromium, TCLP	<0.2 mg/L	3010A/7190	0.2	3/31/99
Mercury, TCLP	0.0014 mg/L	7470	0.0002	4/1/99
Lead, TCLP	0.8 mg/L	3010A/7420	0.2	3/31/99
Selenium, TCLP	<0.005 mg/L	7740	0.005	4/1/99

Respectfully submitted,

Bradden Bigelow, Lab Manager

ADVANCED ANALYTICS LABORATORIES, INC.
1025 CONCORD AVENUE
COLUMBUS, OHIO 43212
(614) 299-9922 FAX (614) 299-4002
Analysis & Testing - Quality Control Programs - Research & Development

April 5, 1999

Four Seasons Environmental
4700 Homer Ohio Lane
Groveport, OH 43125
ATTN: Lester Douglas

AALI ORDER ID: 7036
APPROVAL #: EPA Certification 4045
CLIENT PROJECT: BHE
CLIENT PO NO.: 13626

DATE COLLECTED: 3/23/99
DATE RECEIVED: 3/25/99
DATE ANALYZED: 4/2/99
DATE REPORTED: 4/5/99

TEST RESULTS

Test Method: 8270A

AALI Sample No.: 31803 **Client Sample ID:** 01/02

Compound	Result	Detection Limit
2,4,5-Trichlorophenol	0.01 mg/L	0.01
2,4,6-Trichlorophenol	0.01 mg/L	0.01
m-Cresol	0.01 mg/L	0.01
o-Cresol	0.01 mg/L	0.01
p-Cresol	0.01 mg/L	0.01
Pentachlorophenol	0.01 mg/L	0.01
2,4-Dinitrotoluene	0.01 mg/L	0.01
Hexachloro-1,3-butadiene	0.01 mg/L	0.01
Hexachlorobenzene	0.01 mg/L	0.01
Hexachloroethane	0.01 mg/L	0.01
Nitrobenzene	0.01 mg/L	0.01
Pyridine	0.01 mg/L	0.01

Respectfully submitted,

Bradden Bigelow, Lab Manager

ADVANCED ANALYTICS LABORATORIES, INC.
1025 CONCORD AVENUE
COLUMBUS, OHIO 43212
(614) 299-9922 FAX (614) 299-4002
Analysis & Testing - Quality Control Programs - Research & Development

March 31, 1999

Four Seasons Environmental
4700 Homer Ohio Lane
Groveport, OH 43125
ATTN: Lester Douglas

AALI ORDER ID: 7036
APPROVAL #: EPA Certification 4043
CLIENT PROJECT: BHE
CLIENT PO NO.: 13626

DATE COLLECTED: 3/23/99
DATE RECEIVED: 3/25/99
DATE ANALYZED: 3/31/99
DATE REPORTED: 3/31/99

TEST RESULTS

Test Method: 8240A

AALI Sample No.: 31803 **Client Sample ID:** 01/02

Compound		Result	Detection Limit
1,1-Dichloroethylene	<	0.05 mg/L	0.05
1,2-Dichloroethane	<	0.05 mg/L	0.05
1,4-Dichlorobenzene	<	0.1 mg/L	0.1
Benzene		0.120 mg/L	0.05
Carbon tetrachloride	<	0.05 mg/L	0.05
Chlorobenzene	<	0.05 mg/L	0.05
Chloroform	<	0.05 mg/L	0.05
Methyl ethyl ketone		0.225 mg/L	0.1
Tetrachloroethylene	<	0.05 mg/L	0.05
Trichloroethylene	<	0.05 mg/L	0.05
Vinyl chloride	<	0.1 mg/L	0.1

Respectfully submitted,

Bradden Bigelow, Lab Manager

CLOSURE FORM (PART I)

CLOSURE CHECKLIST

OWNERSHIP OF TANKS	LOCATION OF TANKS
OWNER NO. 11394 US ARMY RESERVE 506 ROEDER CIRCLE FORT SNELLING, MN 55111-4009	PERMIT NO. 08175 FACILITY NO. 702643 556 ROY CLIFTON SCOUTEN USARC 271 HEDGES STREET MANSFIELD, OH 44903

FILING INSTRUCTIONS

1. IN THE COLUMN ON THE LEFT SIDE OF THE FORM, PLACE EITHER THE PAGE NUMBER OR APPENDIX DESIGNATION WHERE EACH ITEM ON THE CHECKLIST CAN BE FOUND IN THE CLOSURE REPORT OR "N/A" (NOT APPLICABLE) FOR ITEMS THAT DO NOT APPLY TO YOUR CLOSURE REPORT.

2. UST OWNER MUST SIGN WHERE INDICATED AT THE END OF THIS FORM AND ATTACH IT TO THE CLOSURE REPORT. DEFICIENT CLOSURE REPORTS SUBMITTED TO OUR OFFICE WILL BE RETURNED TO THE UST OWNER FOR COMPLETION. SEND THE CLOSURE FORM AND THE CLOSURE REPORT TO THE ATTENTION OF THE "CLOSURE REVIEW SECTION".

NOTE: UST OWNER/OPERATORS SHALL SUBMIT ONE COPY OF THE WRITTEN CLOSURE REPORT WHICH SHALL BE RECEIVED BY THE STATE FIRE MARSHAL WITHIN 45 DAYS OF RECEIPT BY THE UST OWNER/OPERATOR OF SOIL AND/OR GROUND WATER LABORATORY ANALYSIS BUT NOT LATER THAN 90 DAYS FROM THE DATE OF COLLECTING SOIL AND/OR GROUND WATER SAMPLES.

I. UST SYSTEM OWNER, OPERATOR, AND FACILITY DATA

2.1 UST OWNER (NAME; ADDRESS; ZIP CODE; COUNTY; PHONE NO.)
2.1 UST OPERATOR (NAME; ADDRESS; ZIP CODE; COUNTY; PHONE NO.)
2.2 UST FACILITY LOCATION (NAME; ADDRESS; ZIP CODE; COUNTY; PHONE NO.)
2.2 UST FACILITY OWNER (NAME; ADDRESS; ZIP CODE; COUNTY; PHONE NO.)

II. UST SYSTEM DATA

2.9 DATE OF UST REMOVAL OR ABANDONMENT
N/A UST SYSTEM AGE (YEARS)
1.0 UST CAPACITY (GALLONS)
1.0 UST SYSTEM CONSTRUCTION (E.G., STEEL, FIBERGLASS, ETC.)
N/A DATE UST SYSTEM LAST USED
N/A PERSON WHO LAST USED UST SYSTEM
1.0 SUBSTANCE STORED IN UST BOTH PAST AND PRESENT (E.G. GASOLINE, DIESEL FUEL, USED OIL, ETC.)
1.0 UST SYSTEM USE (E.G. RETAIL SALES, RESIDENTIAL, FARM, BUSINESS, ETC.)
1.0 UST SYSTEM STATUS (PERMANENTLY REMOVED, ABANDONED-IN-PLACE, CHANGE-IN-SERVICE, OR TEMPORARY CLOSURE BEYOND TWELVE MONTHS)

III. WASTE DISPOSAL DATA

5.3 DISPOSAL OF UST SYSTEM
5.2 DISPOSAL AND FINAL LOCATION OF ANY LIQUIDS FROM UST SYSTEM OR UST SYSTEM EXCAVATION

IV. SAMPLING DATA

(GROUND WATER SAMPLING DATA ONLY REQUIRED IF GROUND WATER ENCOUNTERED DURING CLOSURE ACTIVITIES)

4.2 SOIL AND/OR GROUND WATER SAMPLE COLLECTION PROCEDURES
4.2 TYPE OF SAMPLE CONTAINERS AND SAMPLE PRESERVATION TECHNIQUES USED FOR SOIL AND/OR GROUND WATER SAMPLES
4.1 LABELING NUMBER OR DESIGNATION OF SOIL AND/OR GROUND WATER SAMPLE USED
4.1 TYPE OF SAMPLING EQUIPMENT USED (E.G. SPLIT SPOON, SHELBY TUBE, ETC.)
4.2 PROCEDURES USED FOR DECONTAMINATION OF SAMPLING EQUIPMENT
4.1 FIELD SCREENING METHODOLOGY USED FOR EACH SOIL AND/OR GROUND WATER SAMPLES OBTAINED
3.6 TYPE OF FIELD SCREENING INSTRUMENT USED
V LISTING OF FIELD SCREENING READINGS FOR EACH SOIL AND/OR GROUND WATER SAMPLE OBTAINED
V CALIBRATION DATE OF FIELD SCREENING INSTRUMENT
4.1 LOCATIONS AND DEPTHS OF ALL SOIL AND/OR GROUND WATER SAMPLES OBTAINED
VIII COPY OF CHAIN OF CUSTODY DOCUMENTATION FOR SOIL AND/OR GROUND WATER SAMPLES SUBMITTED TO LABORATORY
VIII SAMPLE COLLECTOR NAME AND COMPANY AFFILIATION

V. LABORATORY DATA

(GROUND WATER LABORATORY DATA ONLY REQUIRED IF GROUND WATER ENCOUNTERED DURING CLOSURE ACTIVITIES)

VIII COPIES OF LABORATORY SAMPLE ANALYSIS DATA SHEETS FOR SOIL AND/OR GROUND WATER SAMPLES
VIII DATE SOIL AND/OR GROUND WATER SAMPLES COLLECTED
VIII DATE SOIL AND/OR GROUND WATER SAMPLES RECEIVED BY LABORATORY
VIII DATE SOIL AND/OR GROUND WATER SAMPLES ANALYZED BY LABORATORY AND TYPE OF MATRIX ANALYZED (SOIL OR WATER)
VIII NAME, ADDRESS, AND PHONE NUMBER OF LABORATORY AND NAME OF SAMPLE ANALYST
VIII ANALYTICAL TEST METHODS USED FOR SOIL AND/OR GROUND WATER SAMPLES
VIII DETECTION/QUANTITATION LIMITS USED FOR LABORATORY TEST METHODS
N/A DATE OF LABORATORY INSTRUMENT CALIBRATION

VI. MISCELLANEOUS DATA

3.0 VISUAL SITE EVALUATION
VI SITE MAP ACCURATELY DEPICTING DIMENSIONS OF FACILITY PROPERTY BOUNDARIES, ABOVE GROUND STRUCTURES, ADJACENT STREET LOCATIONS, AND UST SYSTEMS (NUMBER OF TANKS AND PRODUCT LINES)
N/A MAPPED LOCATIONS OF KNOWN PRIVATE WELLS, PUBLIC WATER WELLS, OR MONITORING WELLS ON FACILITY
VI MAPPED LOCATIONS OF ANY UTILITIES EXPOSED DURING UST SYSTEM EXCAVATION
3.1 DESCRIPTION OF NATIVE SOILS ENCOUNTERED DURING UST SYSTEM EXCAVATION (E.G. SAND, GRAVEL, CLAY, ETC.)
4.1 MAPPED DEPTHS AND LOCATIONS OF ALL SOIL AND/OR GROUND WATER SAMPLES TAKEN FROM EXCAVATION
VI MAPPED LOCATION OF UST RECENTLY OR HISTORICALLY REMOVED, ABANDONED-IN-PLACE, OR HAS UNDERGONE A CHANGE IN SERVICE, OR TEMPORARY CLOSURE BEYOND TWELVE MONTHS
N/A MAPPED LOCATIONS OF OTHER UST STILL IN SERVICE
VI MAPPED LENGTH OF UST AND PRODUCT LINE
VI MAPPED EXCAVATION LIMITS
2.6 CERTIFIED FIRE SAFETY INSPECTOR NAME AND CERTIFICATE NUMBER
N/A LOCAL FIRE DEPARTMENT (NAME; ADDRESS; ZIP CODE; COUNTY; PHONE)
I COPY OF 30 DAY CLOSURE NOTIFICATION AND CLOSURE PERMIT

CLOSURE FORM (PART II)

SITE FEATURE SCORING SYSTEM (SFSS) CHART

REFER TO SFSS GUIDELINES BEFORE COMPLETING

SITE FEATURES	COLUMN A		COLUMN B		COLUMN C		COLUMN D	
	SCORE 20	ENTER SCORE	SCORE 15	ENTER SCORE	SCORE 10	ENTER SCORE	SCORE 5	ENTER SCORE
1. DISTANCE OF UST SYSTEM FROM CLOSEST POTABLE WATER SUPPLY SOURCE CURRENTLY IN USE IS:	> 1000 FT		300-1000 FT	15	< 300 FT		INSIDE OF DESIGNATED SENSITIVE AREA	
2. DEPTH TO GROUND WATER IS:	> 50 FT		31-50 FT		15-30 FT OR UNKNOWN	10	< 15 FT	
3. PREDOMINANT SOIL TYPE OF SUBSTRATUM IS:	CLAY OR SHALE	20	SILT OR CLAYEY SANDS OR FINE SANDSTONE		SILTY SAND OR FINE SAND, UNKNOWN, OR SANDSTONE		CLEAN SAND, GRAVEL, OR CONGLOMERATE	
4. NATURAL AND/OR MAN-MADE CONDUITS OR RECEPTORS ARE: (COMPLETE WORKSHEET BELOW)	< 8 POINTS		8-10 POINTS		11-13 POINTS	10	> 13 POINTS	
ADD SUBTOTALS:		20	+	15	+	20	+	0
							TOTAL SCORE	55

SITE FEATURE 4 WORKSHEET:

BASEMENTS OR SUBSURFACE FOUNDATIONS WITHIN 100 FEET OF UST SYSTEM	4 POINTS	4
STORM SEWER WITHIN 50 FEET OF UST SYSTEM	4 POINTS	4
SANITARY SEWER WITHIN 50 FEET OF UST SYSTEM	4 POINTS	4
SEPTIC SYSTEM LEACH FIELD WITHIN 50 FEET OF UST SYSTEM	2 POINTS	
WATER LINE MAIN WITHIN 50 FEET OF UST SYSTEM	1 POINT	
NATURAL GAS LINE MAIN WITHIN 50 FEET OF UST SYSTEM	1 POINT	
BEDROCK AREA PRONE TO DISSOLUTION ALONG JOINTS OF FRACTURES WITHIN 100 FEET OF UST SYSTEM	1 POINT	
FAULTS OR KNOWN FRACTURES WITHIN 100 FEET OF UST SYSTEM	1 POINT	
BURIED TELEPHONE/TELEVISION CABLE MAIN WITHIN 50 FEET OF UST SYSTEM	1 POINT	
BURIED ELECTRICAL CABLE MAIN WITHIN 50 FEET OF UST SYSTEM	1 POINT	
	TOTAL POINTS	12

IF TOTAL POINTS FROM SITE FEATURE 4 WORKSHEET ARE:

- < 8, ENTER SCORE OF 20 IN COLUMN A OF SITE FEATURE 4 IN SFSS CHART
- 8 - 10, ENTER SCORE OF 15 IN COLUMN B OF SITE FEATURE 4 IN SFSS CHART
- 11 - 13, ENTER SCORE OF 10 IN COLUMN C OF SITE FEATURE 4 IN SFSS CHART
- > 13, ENTER SCORE OF 5 IN COLUMN D OF SITE FEATURE 4 IN SFSS CHART

NOTE: AFTER COMPLETING SFSS CHART (ABOVE), COMPARE THAT SCORE WITH TOTAL SCORES IN ACTION LEVEL TABLE (BELOW) TO DETERMINE ACTION LEVELS FOR UST SITE.

SFSS ACTION LEVELS TABLE (PPM)

CONSTITUENT	CATEGORY 1	CATEGORY 2	CATEGORY 3	CATEGORY 4
TOTAL SCORE	< 31	31-50	51-70	> 71
SOIL BTEX	.006/4/6/28	.170/7/10/47	.335/9/14/67	.500/12/18/85
GROUND WATER BTEX	.005/1/.700/10	.005/1/.700/10	.005/1/.700/10	.005/1/.700/10
SOIL TPH (GASOLINE)	105	300	450	600
SOIL TPH (OTHERS)	380	642	904	1156

CLOSURE FORM (PART III)

SOIL DISPOSAL/TREATMENT REQUIREMENTS

Please provide the page number or appendix designation where the following items may be found in the closure report:

45 Calculated stockpile volume in cubic yards
5-1 Description of stockpile storage and staging (e.g., bermed, covered, etc.)
4-2 Stockpile sampling and field screening procedures, locations, dates, and results
VIII Stockpile laboratory reports and chain of custody form

In order to comply with the reporting requirements of OAC 1301:7-9-16, please refer to the Soil Disposal/Treatment Notification Form on the following page. The first page of the Soil Disposal/Treatment Notification Form should be completed for each stockpile generated. The second page of the Soil Disposal/Treatment Notification Form should be completed if the PCS is to be treated at a designated facility.

Please consolidate the Soil Disposal/Treatment Notification Form and related PCS information in a separate section of the closure report. The State Fire Marshal is required to track and manage all information derived from PCS generated in compliance with OAC 1301:7-9-16. Consolidating the PCS information in a separate section of the closure report will facilitate a faster review of the site file.

CLOSURE FORM (PART IV)

CLOSURE FORM CERTIFICATION STATEMENT

The following certification statement must be completed by the UST owner/operator. **The notarized written statement found at the end of the Soil Disposal/Treatment Notification Form must also be completed if the PCS is to be treated.**

I certify that I have personally examined and that I am familiar with the information submitted in this form, and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

KURT ZACHARIAS — 01 MAR 99

Owner/operator's name (print) *Signature* *Date*

CLOSURE ASSESSMENT REPORT
FOR
WASTE OIL UNDERGROUND STORAGE TANK
AT
SSG ROY CLIFTON SCOUTEN USARC FACILITY
MANSFIELD, OH

Prepared For:

US ARMY CORPS OF ENGINEERS, OMAHA DISTRICT
Contract No. DACW45-94-DC-0004

Prepared by
Harza Environmental Services, Inc.
Chicago, Illinois

February 18, 1999

TABLE OF CONTENTS

List of Appendices

Closure Assessment Report
Waste Oil Underground Storage Tank
SSG Roy Clifton Scouten USARC Facility
Mansfield, OH

1.0 Introduction

The Omaha District, US Army Corps of Engineers (USACE) contracted with Harza Environmental Services, Inc. (Harza) to conduct the permanent closure of a number of underground storage tank (UST) systems at various 88th Regional Support Command (RSC) facilities located in five states. The scope of work at SSG Roy Clifton Scouten US Army Reserve Center (USARC) facility (site) included the permanent closure by removal of a 550-gallon (gal) Waste Oil double- wall fiberglass UST located at the site. The Waste Oil UST was registered with the Bureau of Underground Storage Tank Regulations (BUSTR), Division of State Fire Marshall, Ohio Department of Commerce.

The site consists of a Main Building containing office, training and storage facilities, an OMS (Organization Maintenance Shop) Building containing vehicle maintenance bays, offices, and storage, paved outdoor parking areas, and open grassy areas, as presented in the Site Plan figure in Appendix V. The OWS is located east of the OMS Building and the UST was located west of the OWS system. A sewer drains to the OWS from the vehicle maintenance bays inside the OMS Building. A sewer also drains to the OWS from a sand trap in an outside vehicle wash rack located east of the OWS system. The OWS discharges to a sanitary sewer. According to the facility manager, the OWS is used primarily for vehicle and equipment cleanup. The OWS is seldom used at this facility.

The Waste Oil UST was part of an Oil/Water Separator (OWS) system. Waste oil, collected after washing vehicles, drained into an OWS (Baffle type) where the oil and water were separated by gravity and flotation. The oil, floating on top of water, flowed through a sloped steel pipe into a separate UST. This UST held the waste oil collected after each wash. This Waste Oil UST was removed as part of the closure activities. The outlet of the OWS system was plugged and the OWS remained in the ground for future operations.

The permanent removal of the UST and the sample collections were done according to the Ohio Administrative Code (OAC) 1301:7-9-12 Guidelines. Harza followed the OAC 1301:7-9-12 (L) Guidelines for developing the closure report procedures including the permit process and arranging for a Certified UST Inspector to witness the UST removal. A copy of the 30-Day Closure Notification and Permit form is presented in Appendix I. A copy of the Final Inspection Field Report is not included because the Certified UST Inspector kept it for his records. This site assessment report describes the closure of the UST system.

2.0 Site Background Information

2.1 UST Owner/Operator

US Army Reserve – 88th RSC
506 Roeder Circle
Fort Snelling, MN 55111-4009

2.2 UST Facility Owner/Location

SSG Roy Clifton Scouten USARC
271 Hedges Street
Mansfield, Ohio 44903

2.3 Sensitive Area Reference of the Site

The UST was not located in a sensitive area.

2.4 UST Owner ID

The UST is registered with BUSTR under ID # 11394

2.5 UST Facility ID

UST Facility ID # 702643

2.6 Certified UST Inspector

Harlan Barrick
Certified UST Inspector No. 1017
Mentor Fire Department
140 East Third Street
Mansfield, OH 44902

2.7 UST Removal Contractor

BHE Environmental Inc. (BHE)
11733 Chesterdale Road
Cincinnati, OH 45246

2.8 OH Certified UST Installer

Tom Forbes
Certified Installer No. 10-91-1786
BHE Environmental Inc.
4249 Diplomacy Drive
Columbus, OH 43228

2.9 UST Description

The 550-gal Waste Oil UST was located east of the Maintenance Building next to the heavy vehicles parking garage, as shown in a site sketch presented in Figure 1 in Appendix V. As described above, the UST system was part of the USARC

OWS system operation. The double-wall fiberglass UST was an extension to the steel baffle-type OWS where the washed waste oil was stored. No information was available on the exact installation date and the age of the UST system. This UST was 4 feet (ft) in diameter and 6 ft long and contained approximately 550 gal of waste oil and water mixture before its removal. The 550-gal double-wall fiberglass UST was manufactured by Owens/Corning and had the Underwriters Laboratory (UL) Serial No. 79866. The piping connecting the two was made of steel. The OWS along with the UST was not in use at the time of removal. No information was available on the date or the person who last used the UST system. There was no alarm system or leak detection gauge visible on the UST before excavation.

The geographic reference of the site indicates that this UST, located in the Richland County, was not in a sensitive area. The UST was removed from the ground on December 2, 1998. Upon removal of the UST from the ground, the tank was in good condition and no holes were observed. A total of approximately 600 gal of waste oil and water mixture, sludge and rinsate was removed from the UST during removal activities. The UST excavation was backfilled with the excavated round pea gravel. A detailed description on the disposal of the waste oil contents with proper manifests is provided in Section 3.4. The tank was removed from the ground, cleaned, rendered useless and disposed on December 2, 1998. Harza was involved as the oversight consultant on behalf of USACE for the UST removal activities that were performed by BHE, the UST removal contractor.

3.0 Tank Removal Process

3.1 UST Removal Procedure

A day before any digging for the UST removal, utility clearances were obtained at the UST location. The 550-gal Waste Oil UST was under 6 inches (6") thick concrete slab, which was saw cut and removed before any excavations began. After the UST contents were removed, the UST was excavated to expose the side sections of the UST. Excavation for the steel pipe connecting to the OWS system was conducted next so that the steel pipe could be cut and the waste oil mixture drained back into the UST. The UST was installed on a 12" thick concrete pad underneath with one metallic anchor strap on each end to hold it. The metallic anchors were broken to remove the UST. All steel piping were disconnected and removed. The internal atmosphere of the UST was tested frequently to ensure that the lower explosive limit (LEL) reading was below 20% at all times. No defuming of the UST was required as the LEL reading was never above 20%. During UST excavation, perched water from neighboring soils was entering the hole. The certified UST inspector confirmed that it was perched water and not groundwater, because the groundwater at this location was more than 20 ft deep.

The UST was then removed from the excavation hole and placed on the ground for cleanup.

The visual site evaluation of the UST system revealed no evidence of any operational problems. The double-wall fiberglass UST condition was good with the manufacturing label still visible, upon removal from the ground. On the ground, the UST had no signs of any tear, leakage or damage to the double-wall fiberglass tank. There was no indication of any concrete staining, surface soil staining or pipe joint leaks during the removal operation. The tank was placed in a tilted position to drain the remaining waste oil mixture. The concrete pad was left in the excavation bottom.

The backfill material consisted of round pea gravel and was placed on a plastic tarp after excavation. The backfill material had no visual observation of any stain or contamination. The native soil is clayey soil, brown in color. All the excavated backfill was returned into the hole. In addition to the pea gravel backfill, approximately 4 cubic yards of clean backfill material consisting of crushed stone was brought to the site by Four Seasons Environmental to fill the hole. The excavated hole was compacted in 6 to 12 inch lifts using backhoe bucket and graded. The surface restoration of the site will be performed by USACE.

3.2 UST Atmosphere Monitoring

The UST internal atmosphere was monitored by BHE with an explosimeter (combustible gas and oxygen meter) Model 261 manufactured by Mine Safety Appliances (MSA). The UST internal atmosphere and the excavation area were also tested with the LEL-O2 meter to assure that the LEL reading remained less than 20 % during the removal process.

The instrument was calibrated in the morning using manufacturer recommended calibration gas. Prior to each reading, the instrument was cleared and reset. The internal atmosphere of the empty UST was monitored by lowering the explosimeter probe down the manhole and obtaining readings near the bottom, middle, and upper parts of the UST.

3.3 UST Contents Sampling

Consistent with the OAC 1301:7-9-12 Guidelines, the UST contents were analyzed before proper disposal by BHE. A total of eleven 55-gal drums (approximately 550 gal) were used to store on site, the waste oil and water mixture pumped from the UST. A sample was collected from one of the drums and sent for characterization to a certified laboratory before disposal. A detailed description on the amount and analytical description of the UST contents will be provided at a later date. The analytical results are presented in Appendix III.

3.4 Removal of Product and Sludge

The PVC pipe leading to the OWS system was cut and drained back into the UST. The outlet of the OWS was plugged, after the product in the piping was drained. As reported earlier, total of approximately 600 gal of waste oil and water mixture. sludge and rinsate were removed from the UST on December 2, 1998. A total of twelve (12) 55-gal drums were used to store the contents of the UST. Out of these twelve 55-gal drums, eleven (11) drums contained the waste oil and water mixture and the remaining one drum contained waste oil sludge and rinsate collected after cleaning of UST.

3.5 Tank Cleaning

The inside of the Waste Oil UST was cleaned by BHE. After testing its internal atmosphere, the tank was cut open at one end and decontaminated in place with safety adsorbents. The tank was triple-steam rinsed and the generated sludge and rinsate were collected and contained in one 55-gal drum. This drum of waste oil sludge will be transported and disposed at a later date. A copy of the manifest is presented in Appendix II.

3.6 Soil Vapor Monitoring

During excavation for the UST, the excavated backfill pea gravel surrounding the UST was continuously monitored using a Photo-Ionization Detector (PID) Model MiniRAE. The PID is capable of detecting volatile hydrocarbon vapors in the 1-100 ppm range. Prior to each reading, the instrument was cleared and reset. Excavated backfill material samples were tested by extracting a fresh sample and splitting into two from a depth of 4 to 6 inches below the exposed surface. Each excavated sample was placed into a fresh plastic bag and the headspace was analyzed with the PID. This allowed to alleviate the potential for false readings from volatilization caused by moving air and evaporation. The sample was collected from the highest field reading.

The PID readings were taken at different intervals during the removal of the Waste Oil UST. No PID readings were obtained from the stockpiled excavated backfill materials. A copy of the field readings is presented in Appendix IV.

4.0 Site Assessment

A site assessment for the UST was conducted on December 2, 1998 in accordance with the OAC 1301:7-9-12 (K) 4(c) sampling requirements for permanent UST closure by removal.

4.1 Soil Sampling Locations

The soil sample locations for the closure site assessment were taken to check for any contamination. Overall, three samples were collected for this 550-gal Waste Oil UST. Two grab samples were taken from the excavation floor, one at either end of the UST. The grab samples from the bottom of the excavation were collected from the East and West ends of the UST, 2 feet below the surface of the native soil, clayey brown in color. The sample locations were within one foot of either end of the concrete pad.

Since the volume of the excavated backfill material was more than 25 cubic yards, six headspace readings were taken as required by OAC 1301:7-9-12 Guidelines. One grab sample was collected from the backfill material. The sample with the highest field screening reading was selected for laboratory analysis. Since there were no headspace readings observed, one sample was collected from the north side of the excavated pile (Pile #1). No pipeline sample was taken as the piping run was only 4 feet between the UST and the OWS system, less than the required twenty feet.

The sample identification numbers are labeled as OH037-VOC@-1298 and OH037-TPH@-1298, where @ represents the location. The sampling locations, the sample identification numbers, and the layout of the excavation hole are shown in Appendix V.

4.2 Soil Sampling Procedure

The soil sampling procedures for the closure samples were followed using the OAC 1301:7-9-12 Guidelines for UST site assessments. All samples were collected in native soil, 2 feet below the surface. A field location map was generated during the site assessment and is presented in Figure 1 in Appendix V. All samples collected for this UST were analyzed for Volatile Organic Aromatics (VOA) and Total Petroleum Hydrocarbons (TPH). As specified in the guidelines, soil samples for VOA and TPH analysis were collected in 4 oz. clear wide mouth container with teflon lined septa caps. No preservatives were used for either analyses. The samples were then placed in a cooler with ice bags to keep them below a temperature of 4°C.

All samples were collected using disposable gloves. The disposable gloves were replaced after every sample collection. Soil samples in the excavation hole were performed using a backhoe. For the excavated backfill sampling, hand was used to collect the sample 1 foot inside the backfill. Decontamination of all equipment was carried with double rinse of Alconox followed by triple rinse of distilled water. After collection of all samples, samples were neatly labeled and packed for shipment to laboratory. For shipping to the laboratory, a Quality Assurance/Quality Control (QA/QC) sample was also sent in addition to the

regular samples. The QA/QC sample was a regular trip blank (Laboratory prepared sample, VOC vial containing 40 ml distilled water).

Samples were collected by Harza. All samples collected and shipped were identified in a Chain of Custody (C.O.C.) sheet. All samples including duplicate copies of the C.O.C. were shipped next day via Federal Express. A copy of the C.O.C. is presented in Appendix VII.

4.3 Soil Analytical Results

The samples were analyzed for VOA analysis using EPA Method 8260 (previously 8240) and for TPH analysis using EPA Method 418.1R (previously 418.1). All analyses for this site were performed by a certified laboratory, Great Lakes Analytical, Buffalo Grove, IL. For VOA analysis, the analytical results indicated that all three samples were non-detect. Also, for TPH analysis analytical results indicated that all three samples were non-detect. The analytical results for the soil samples and a copy of the C.O.C. are presented in Appendix VII.

5.0 Disposal of Waste Materials

5.1 Soil Disposal

During removal of the UST, the size of the excavation hole was 12 ft 1 in x 11ft 4 in x 8ft 11in, a total of about 1221 cubic feet (approximately 45 cubic yards). As described in Section 3.1, the excavation backfill material was stockpiled (Pile # 1) over a liner. No soil was disposed off-site. No readings were obtained from the excavated stockpile, Pile # 1, and there were no visual signs of any stain or any odor. All the 45 cubic yards of excavated backfill soil was returned into the hole for restoration purposes. A copy of the Soil Disposal/Treatment Notification Form is included in Appendix VI.

5.2 UST Contents Disposal

A total of approximately 600 gal of waste oil and waster mixture, sludge and rinsate was removed from the UST during removal activities performed on December 2, 1998. A total of twelve (12) 55-gal drums were used to store the contents of the UST.

Eleven (11) 55-gal drums (approximately 550 gal) of waste oil and water mixture pumped from the UST stored on site will be hauled off site for disposal at a later date. UST contents will be manifested for off-site transportation. A copy of the manifest is presented in Appendix IV.

One 55-gal drum of waste oil contaminated sludge and rinsate produced after cleaning of the tank will be disposed at a later date. A copy of the manifest is presented in Appendix II.

The concrete pad was left in the excavation prior to backfilling the hole with pea gravel.

5.3 UST Disposal

The double-wall fiberglass UST which was removed, cleaned and rendered useless was disposed of at Four Seasons Environmental, Groveport, OH on December 2, 1998. A copy of the disposal receipt is presented in Appendix VIII.

6.0 Site Restoration

The site was restored on December 2, 1998. All the excavated pea gravel backfill was returned into the hole. In addition to the pea gravel backfill, approximately 4 cubic yards of clean backfill material consisting of crushed stone was brought to the site by Four Seasons Environmental to fill the hole. The soil was compacted in accordance with contract specifications with 6-12 inch lifts and compaction using backhoe bucket. Final surface restoration will be performed by USACE.

7.0 Conclusions

Based on the laboratory analytical results for all confirmation closure samples, all VOAs and TPH analyses were found below detection limits. Therefore, a clean closure letter for this 550-gal double-wall fiberglass UST (Facility ID# 702643) located at Mansfield, OH is warranted.

Appendix I

30 Day Closure Notification and Closure Permit

COM-5208

DEPARTMENT OF COMMERCE, DIVISION OF STATE FIRE MARSHAL
BUREAU OF UNDERGROUND STORAGE TANK REGULATIONS
P.O. BOX 687
REYNOLDSBURG, OH 43068-0687

08175

DELEGATED PERMIT FOR UNDERGROUND STORAGE TANKS

Permit No:

Issue Date:

I. OWNERSHIP OF TANK	II. LOCATION OF TANK
Owner/Operator Name: US Army Reserve	Facility Name: U.S. Army Reserve Center
Address: 217 Hedges St.	Address: 217 Hedges STREET
City: Mansfield State: Ohio Zip:	City: Mansfield State: Ohio Zip:
Attn: (Contact Person) Area Code - Phone	Area Code - Phone County: Richland
III. CONTRACTOR	**IV. LOCAL FIRE DEPARTMENT**
Contractor's Name: B+E Environmental INC	Fire Department Name:
Contact Person: Tom Forbes Area Code - Phone: (614) 771-4100	Address:
Address: 4219 Diplomacy Dr.	City: State: Zip:
City: Columbus State: Zip: 43228	

Need Forbes

V. CONDITIONS. PERMIT EXPIRES SIX (6) MONTHS FROM DATE OF ISSUE. FEE IS NON-REFUNDABLE.

VI. PERMIT ISSUED FOR: SEE BELOW

Removals/Abandonments

[101] Tank(s): 500 GAL WASTE Oil [102] Piping [103] Total Systems

Installations:

[201] Tank(s) [202] Piping [203] Total Systems

Replacement:

[301] Tank(s) [302] Piping [303] Total Systems

Repairs:

[401] Tank(s) [402] Piping

Upgrades:

[501] Tank(s) [502] Piping [503] Total Systems [504] Leak Detection

[601] **Temporary Closure** [701] **Change in Service**

FIRE DEPARTMENT USE ONLY

Certified Installer Name: W T Farley No: 10-91-1786

Certified Inspector's Signature: Harlan Barrick No: 1017 Date: 11/23/98

COM 5210 Revised 2 97 Distribution: White-Owner Copy Canary-State Fire Marshal Copy Pink-Fire Department Copy

Appendix II

Waste Oil Sludge Disposal Manifest

To be provided at a later date

Appendix III

UST Contents Analytical Results

And

Disposal Manifest

To be provided at a later date

Appendix IV

PID Calibration and Field Measurements

HARZA Environmental Services

FIELD EQUIPMENT CALIBRATION

Project Name 88TH BRSC USTs REMOVAL

Site Location Mansfield, OH

Project No. 5644 GJ

Equipment Model Mini RAE PID

Technician Name Ramesh K.

Date 12/2/98

TIME	INSTRUMENT READING	CALIBRATION METHOD	COMMENTS
8:07	0 ppm	Zero Gas	
8:13	100.0 ppm	100 ppm Isobutylene Gas	

Reviewed By: RK

Date : 12/2/98

HARZA Environmental Services

FIELD TEST RESULT LOG

Project Name 88TH RSC USTs REMOVAL

Site Location Mansfield, OH

Project No. 5644 GJ

Equipment Model Mini RAE PID

Type of Test PID

Technician Name Ramesh K.

Date 12/2/98

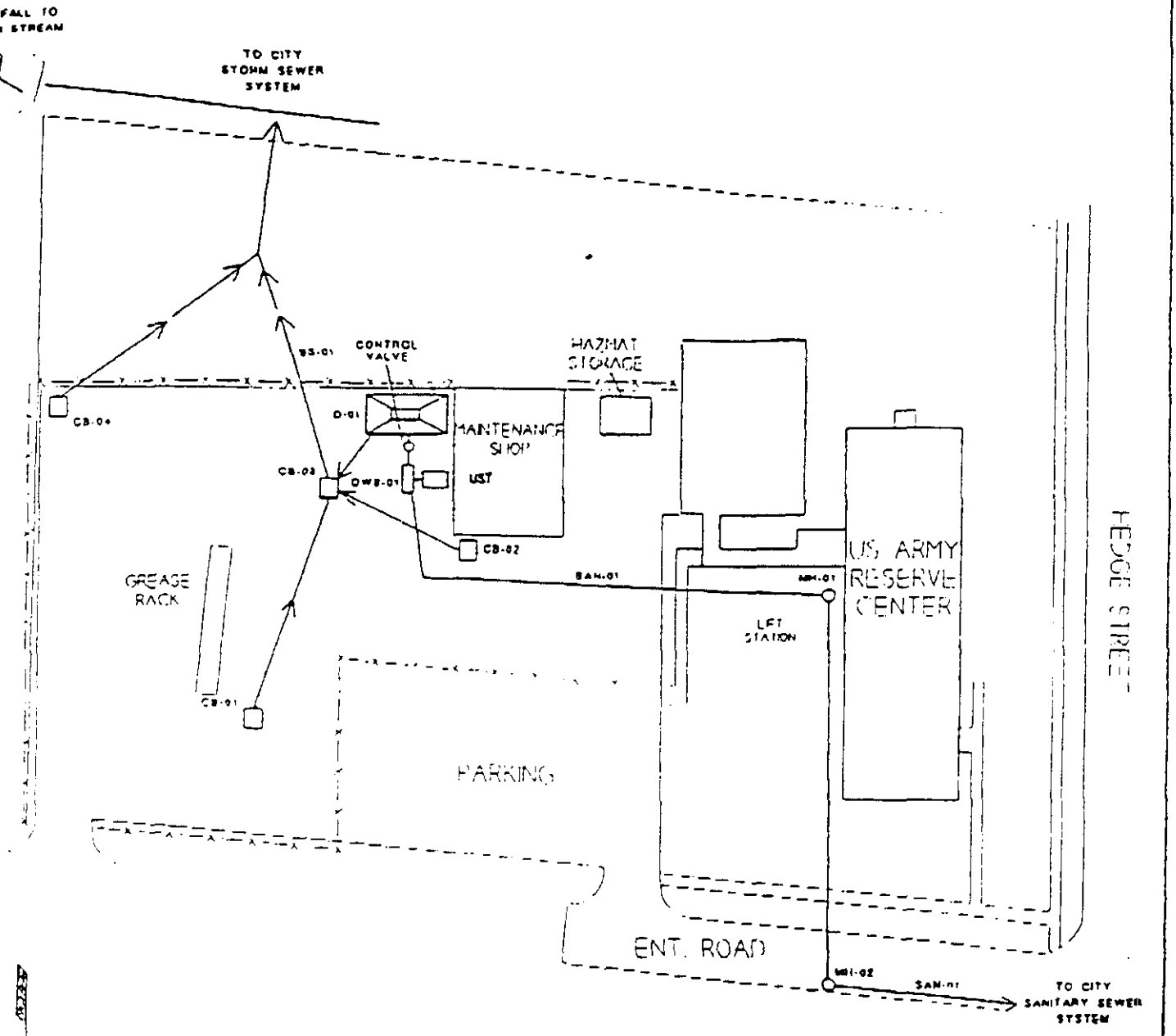
TIME	INSTRUMENT READING	LAST CALIBRATION	COMMENTS
10 29	0 ppm	12/2/98	Top Soil & Asphalt mix
10 39	0 ppm		west side of UST
10 47	0 ppm		west side of UST
10 59	0 ppm		Top of UST
11 20	0 ppm		east side of UST
11 37	0 ppm		North side of UST
11 48	0 ppm		North side of UST
1 39	0 ppm		South side of pile #1
1 40	0 ppm		East side of Pile #1
1 41	0 ppm		SE side of pile #1
1 43	0 ppm		west side of Pile #1
1 44	0 ppm		NW side of pile #1
1 45	0 ppm		North side of pile #1

Reviewed By: RK

Date : 12/2/98

Appendix V

Site Sketch and Sampling Locations



SITE PLAN

N

LEGEND	
SAN-01	SANITARY LINE #01
SS-01	STORM WATER SEWER LINE #01
	DRAINAGE DITCH
CB-01	CATCH BASIN #01
D-01	DRAIN #01 (@ WASH FACILITY)
TD-01	TRENCH DRAIN #01
OWS-01	OIL / WATER SEPARATOR

REVISION	DATE	DESCRIPTION	BY
	11/22/17	SINGLE-LINE SITE PLAN; AUTOCAD FILE NAME: [illegible]	JTI

OIL WATER SEPARATOR (OWS)

DRAWN BY: JTI
CHECKED BY: JTI
DESIGNED BY: JTI
REVIEWED: SECTION CHIEF

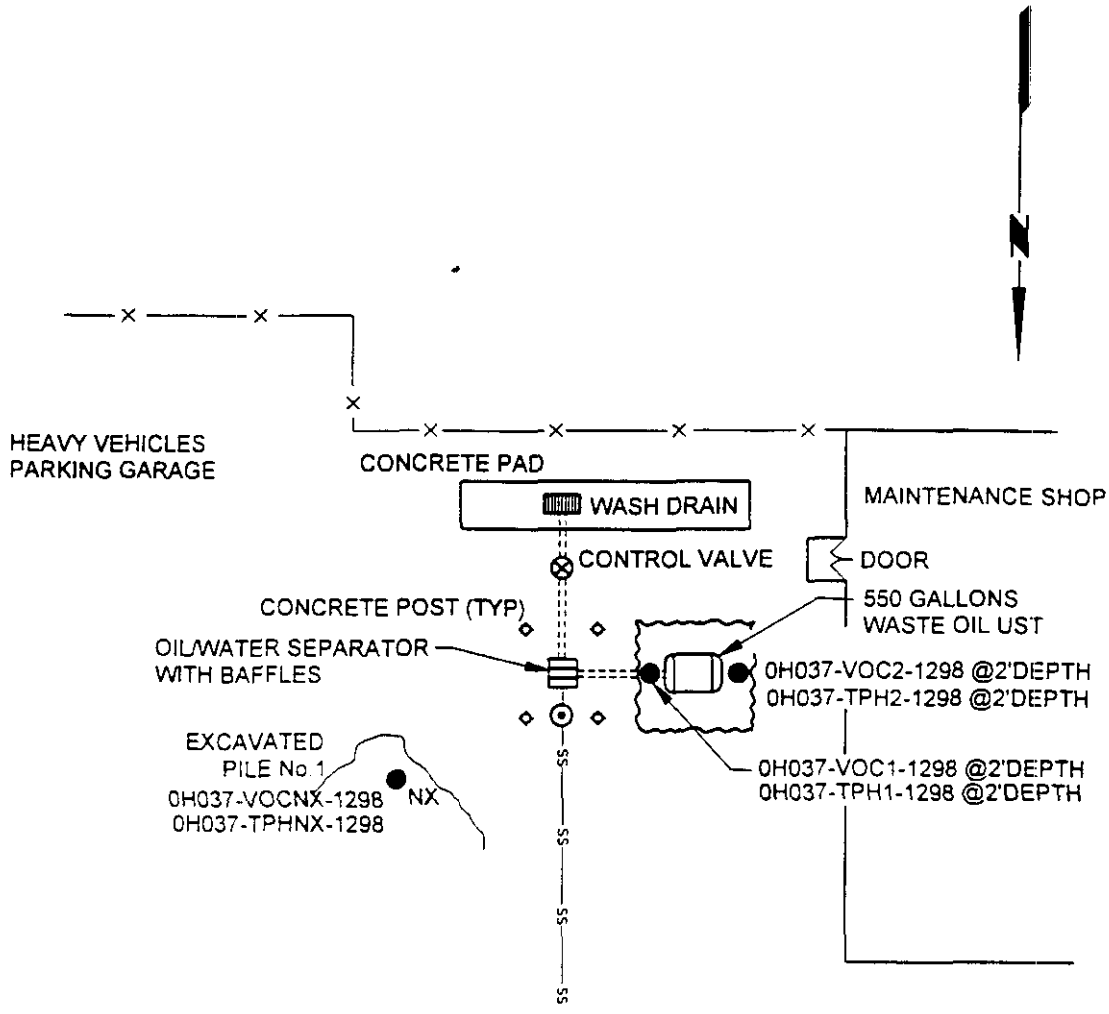
88th REGIONAL SUPPORT COMMAND - OHIO

SCOUTIN, USARC
FACILITY OH037

MANSFIELD OHIO

SUBMITTED: CHIEF DESIGN BRANCH
RECOMMENDED: CHIEF, ENGINEERING DIVISION
APPROVED: COLONEL C.E. DISTRICT ENGINEER
DATE

SCALE AS SHOWN
DRAWING NUMBER
SHEET ____ OF ____



LEGEND

● Sampling Location

SCALE

0 20 Feet

Figure 1

SSG ROY CLIFTON SCOUTEN USARC
SITE SCHEMATIC DIAGRAM AND SAMPLE LOCATIONS

88th RSC USTs REMOVAL PROJECT
Mansfield, Ohio

HARZA *Consulting Engineers and Scientist*

R:\5644GA\5644GJ-8.DGN 8/D/11-98

Appendix VI

Soil Disposal/Treatment Notification Form

STATE FIRE MARSHAL/BUSTR
SOIL DISPOSAL/TREATMENT NOTIFICATION FORM

THIS FORM SHOULD BE COMPLETED AND SUBMITTED WITHIN 90 DAYS OF GENERATING A STOCKPILE. WITHIN 180 DAYS OF PLACING THE SOIL IN PORTABLE CONTAINERS, OR PRIOR TO TREATMENT, WHICHEVER COMES FIRST. A SEPARATE FORM SHOULD BE COMPLETED FOR EACH STOCKPILE GENERATED.

OWNER/OPERATOR INFORMATION

OWNER/OPERATOR NAME	CONTACT PERSON	AREA CODE-PHONE
US ARMY RESERVE - 88TH RSC	KURT ZACHARIAS	(612) 713-3821

ADDRESS	CITY	STATE	ZIP CODE
506 ROEDER CIRCLE	FORT SNELLING	MN	55111-4009

FACILITY WHERE SOILS WERE GENERATED	FACILITY WHERE SOILS WILL BE DISPOSED OF OR TREATED
FACILITY NAME: 556 ROY CLIFTON SCOUTEN USARC	FACILITY NAME: 556 ROY CLIFTON SCOUTEN USARC
ADDRESS: 271 HEDGES STREET	ADDRESS: 271 HEDGES STREET
CITY: MANSFIELD STATE: OH ZIP CODE: 44903-2697	CITY: MANSFIELD STATE: OH ZIP CODE: 44903-2697
AREA CODE-PHONE: (419) 525-1893 COUNTY: RICHLAND	COUNTY: RICHLAND STOCKPILE DESIGNATION (e.g., pile #1, pile from waste oil cavity, etc.): PILE #1

DATE STOCKPILE WAS GENERATED DECEMBER 2, 1998

DISPOSITION OR TREATMENT OF STOCKPILE (**provide the number of cubic yards in the appropriate place below**)

Cubic Yards		(Check applicable)
_____	Soil analysis falls below category 1 action levels	____on-site ____off-site
_____	One Time Landfarming	____on-site ____off-site
_____	Multiple Application Landfarming	____on-site ____off-site
_____	Confined Treatment Area Process	____on-site ____off-site
_____	Alternative Treatment Method	____on-site ____off-site
_____	Disposal at a treatment facility	
45	Returned to excavation (below site specific category action levels)	
_____	Returned to excavation (above site specific category action levels)	
_____	Disposal at a landfill	

*********CONTINUED ON REVERSE SIDE*********

FOR OFFICE USE ONLY

REPORT #: _|_|_|_|_|_|_|_|_|-|_|_|-|_|_|_|_|

COORD:_____ STAT:_____ PRIO:____ CLASS:_____ LTF:____ CYDS:_____

REVIEWED BY:_____ DATE:_____

ENTERED BY:_____ DATE:_____

IF PCS IS TO BE TREATED AT A DESIGNATED FACILITY, COMPLETE THIS PAGE BY PROVIDING THE FOLLOWING INFORMATION:

1. A MAP OF THE LOCATION WHERE TREATMENT WILL TAKE PLACE. THE MAP SHOULD DEPICT PROPERTY BOUNDARIES, STREET LOCATIONS, ABOVE GROUND STRUCTURES, ETC. (REFER TO OAC 1301:7-9-16 FOR COMPLETE LIST.)

2. A BRIEF DESCRIPTION OF THE TREATMENT METHOD TO BE USED (INCLUDE ADDITIONAL PAGES IF NEEDED)

_____

_____

_____

_____

_____

_____

3. THE FOLLOWING WRITTEN STATEMENT SIGNED BY THE UST OWNER OR OPERATOR AND SWORN TO OR ACKNOWLEDGED BY THE UST OWNER OR OPERATOR BEFORE A NOTARY PUBLIC:

" I STATE UNDER PENALTY OF PERJURY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF (PLEASE CHECK ONE)

_____THE ON-SITE TREATMENT AT THE UST SITE DESCRIBED ABOVE

_____ THE OFF-SITE TREATMENT AT THE LOCATION DESCRIBED ABOVE

HAS AND SHALL BE CONDUCTED IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF CHAPTER 1301:7-9 OF THE ADMINISTRATIVE CODE , INCLUDING BUT NOT LIMITED TO RULES 1301:7-9-16 AND 1301:7-9-17 OF THE ADMINISTRATIVE CODE."

_____	_____	_____
OWNER/OPERATOR'S NAME (TYPED OR PRINTED)	SIGNATURE	DATE

SUBSCRIBED AND DULY SWORN BEFORE ME ACCORDING TO LAW, BY THE ABOVE NAMED APPLICANT

THIS _____ DAY OF _____19___ AT _____ ,

COUNTY OF _____ AND STATE OF _____

SIGNATURE OF NOTARY PUBLIC _____

OFFICIAL TITLE _____

Appendix VII

Laboratory Analytical Results

And

Chain of Custody Form

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Harza Environmental Services, Inc.
233 South Wacker Dr., 8th Floor
Chicago, IL 60606
Attention: Ramesh

Project: 88th RSC USTs Removal

Enclosed are the results from 3 soil samples and 1 water sample received at Great Lakes Analytical on December 8, 1998. The requested analyses are listed below:

SAMPLE#	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
8120608	Soil, OH037-TPH1-1298	12/2/98	TPH, EPA 418.1 VOC, EPA 8260
8120609	Soil, OH037-TPH2-1398	12/2/98	TPH, EPA 418.1 VOC, EPA 8260
8120610	Soil, OH037-TPHEX- 1298	12/2/98	TPH, EPA 418.1 VOC, EPA 8260
8120611	Water: TRIP Blank	12/2/98	VOC, EPA 8260

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Harza Environmental Services, Inc.	Client Project ID:	88th RSC USTs Removal	Sampled:	Dec 2, 1998
233 South Wacker Dr., 8th Floor	Matrix Descript:	Soil	Received:	Dec 3, 1998
Chicago, IL 60606	Analysis Method:	EPA 418.1 (I.R. with clean-up)		
Attention: Ramesh	First Sample #:	812-0608	Analyzed:	Dec 8, 1998
			Reported:	Dec 8, 1998

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Sample Number	Sample Description	Petroleum Oil mg/kg (ppm)
812-0608	OH037-TPH1-1298	N.D.
812-0609	OH037-TPH2-1398	N.D.
812-0610	OH037-TPHEX-1298	N.D.

Detection Limits:	1.0

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Accreditations/Certifications: Delaware IL 069; Illinois EPA-100261; New Jersey DEP-54001; New York DOH-11487
Tennessee DOH-02804; Tennessee DEC; USACE; Virginia 00164; Wisconsin DNR-999917160

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Harza Environmental Services, Inc.
233 South Wacker Dr., 8th Floor
Chicago, IL 60606
Attention: Ramesh

Client Project ID: 88th RSC USTs Removal
Sample Descript: Soil: OH037-VOC1-1298
Analysis Method: EPA 8260
Lab Number: 812-0608

Sampled: Dec 2, 1998
Received: Dec 3, 1998
Analyzed: Dec 4, 1998
Reported: Dec 8, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acetone	25	N.D.
Benzene	5.0	N.D.
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chlorodibromomethane	5.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D
1,1-Dichloroethene	5.0	N.D
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D
1,2-Dichloropropane	5.0	N.D.
cis 1,3-Dichloropropene	5.0	N.D
trans 1,3-Dichloropropene	5.0	N.D
Ethylbenzene	5.0	N.D.
2-Hexanone	10	N.D
Methylene chloride	5.0	46A
4-Methyl-2-pentanone	10	N.D
Styrene	5.0	N.D
1,1,2,2-Tetrachloroethane	5.0	N.D
Tetrachloroethene	5.0	N.D
Toluene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D
1,1,2-Trichloroethane	5.0	N.D
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	10	N.D
Vinyl chloride	5.0	N.D
Total Xylenes	5.0	N.D

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Please Note
A = Laboratory artifact - concentrations found of this analyte are characteristic of laboratory artifact
The internal standard recovery was outside control limits.

8120608 hes <2>

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.corn
(847) 808-7766 FAX (847) 808-7772

Harza Environmental Services, Inc.	Client Project ID:	88th RSC USTs Removal	Sampled:	Dec 2, 1998
233 South Wacker Dr., 8th Floor	Sample Descript:	Soil: OH037-VOC2-1298	Received:	Dec 3, 1998
Chicago, IL 60606	Analysis Method:	EPA 8260		
Attention: Ramesh	Lab Number:	812-0609	Analyzed:	Dec 4, 1998
			Reported:	Dec 8, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acetone	25	N.D.
Benzene	5.0	N.D.
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chlorodibromomethane	5.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis 1,3-Dichloropropene	5.0	N.D.
trans 1,3-Dichloropropene	5.0	N.D.
Ethylbenzene	5.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	5.0	49A
4-Methyl-2-pentanone	10	N.D.
Styrene	5.0	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
Toluene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	10	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Please Note
A = Laboratory artifact - concentrations found of this analyte are characteristic of laboratory artifact
The internal standard recovery was outside control limits.

8120608 hes <3>

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Harza Environmental Services, Inc.
233 South Wacker Dr., 8th Floor
Chicago, IL 60606
Attention: Ramesh

Client Project ID: 88th RSC USTs Removal
Sample Descript: Soil: OH037-VOCEX-1298
Analysis Method: EPA 8260
Lab Number: 812-0610

Sampled: Dec 2, 1998
Received: Dec 3, 1998
Analyzed: Dec 4, 1998
Reported: Dec 8, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acetone	25	N.D.
Benzene	5.0	N.D.
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chlorodibromomethane	5.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis 1,3-Dichloropropene	5.0	N.D.
trans 1,3-Dichloropropene	5.0	N.D.
Ethylbenzene	5.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	5.0	50A
4-Methyl-2-pentanone	10	N.D.
Styrene	5.0	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
Toluene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	10	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Please Note
A = Laboratory artifact - concentrations found of this analyte are characteristic of laboratory artifact.
The internal standard recovery was outside control limits.

8120608 hes <4>

GREAT LAKES ANALYTICAL

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Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Harza Environmental Services, Inc.	Client Project ID:	88th RSC USTs Removal	Sampled:	Dec 2, 1998
233 South Wacker Dr., 8th Floor	Sample Descript:	Water: TRIP Blank	Received:	Dec 3, 1998
Chicago, IL 60606	Analysis Method:	EPA 8260		
Attention: Ramesh	Lab Number:	812-0611	Analyzed:	Dec 7, 1998
			Reported:	Dec 8, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

HARZA Consulting Engineers and Scientists

SEARS TOWER • 233 South Wacker Drive • Chicago, Illinois 60606 6392 Tel (312) 831-3800 • Fax (312) 831 3999 • Telex: 25-3540

Nº 356

CHAIN OF CUSTODY RECORD

SITE: 88TH RSC USTs REMOVAL PROJECT
USARC, MANSFIELD, OH

SAMPLER: (Signature) K-Lamarsh Kerr

PROJECT No. 5644GT

FIELD SAMPLE NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION	No. OF CONTAINERS	VOCs 8240	TPH 418.1	REMARKS
OH037-VOC1-1298	12/2/98	1:20		X	East Bottom of UST	1	X		8120608
OH037-TPH1-1298		1:20			East Bottom of UST	1		X	
OH037-VOC2-1299		1:33			West Bottom of UST	1	X		8120609
OH037-TPH2-1299		1:33			West Bottom of UST	1		X	
OH037-VOCNX-1298		1:47			North Side of Excavated Pile	1	X		8120610
OH037-TPHNX-1298		1:47			North Side of Excavated Pile	1		X	
TRIP BLANK	Lab Prepared	NA			Lab Prepared Sample	1	X		8120611

PARAMETERS

COOLER No.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
K-Lamarsh Kerr	12/2/98	17:00	FEDEX	FEDEX	12/2/98	17:30	Doug 12/3

Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time	Remarks:
						FEDEX SHIPPING # 804640332825

GREAT LAKES ANALYTICAL

CHAIN OF CUSTODY REPORT

Sub to GLA

1380 Busch Parkway
Buffalo Grove, IL 60089-4505
(847) 808-7766
FAX (847) 808-7772

20725 Watertown Road
Brookfield, WI 53501
(414) 798-1030
FAX (414) 798-1066

Client: GREAT LAKES ANALYTICAL
Address: 1380 BUSCH PARKWAY BUFFALO GROVE, IL 60089-4505

Bill To:
Address:

TAT: 5 DAY (4 DAY) 3 DAY 2 DAY 1 DAY < 24 HRS
DATE RESULTS NEEDED: 12/10
TEMPERATURE UPON RECEIPT:
AIR BILL NO:

Report to: IRA
Phone #: ( )
Fax #: ( )

State & Program:
Phone #: ( )
Fax #: ( )

Project: Harza
Sampler:
PO/Quote #: SUB-0535

	FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	PRESERVATIVES	NO. CONTAINERS	TYPE CONTAINERS	418.1	SAMPLE CONTROL: CRACKED/BROKEN	SAMPLE CONTROL: IMPROPERLY SEALED	SAMPLE CONTROL: GOOD CONDITION	LABORATORY ID NUMBER
1	8120608	12/2		Soil		1	402	✓				
2	8120609					1		✓				
3	8120610					1		✓				
4												
5												
6												
7												
8												
9												
10												

RELINQUISHED 12/3 | RECEIVED | RELINQUISHED | RECEIVED

RELINQUISHED | RECEIVED | RELINQUISHED | RECEIVED

COMMENTS:

PAGE OF

JG958198

FedEx USA Airbill

FedEx Tracking Number: 804640332825

Form ID No.: 0210

SPG13

Sender's Copy

1 From (please print and press hard)

Date: 12/2/98 Sender's FedEx Account Number: 0606-1577-2

Sender's Name: RAMESH KANASAREDDY Phone: (312) 831-3000

Company: HARZA ENGINEERING COMPANY

Address: 233 S WACKER DR FL 8

Dept/Floor/Suite/Room:

City: CHICAGO State: IL ZIP: 60606

2 Your Internal Billing Reference Information (Optional) (First 24 characters will appear on invoice)

5644 GJ

3 To (please print and press hard)

Recipient's Name: IAN GRASKE Phone: (847) 808-7766

Company: GREAT LAKES ANALYTICAL

Address: 1380 BUSCH PARKWAY (To "HOLD" at FedEx location, print FedEx address here) Dept/Floor/Suite/Room:

☐ Check here if residence (Extra charge applies for FedEx Express Saver)

City: BUFFALO GROVE State: IL ZIP: 60089

For HOLD at FedEx Location check here

☐ Hold Weekday (Not available with FedEx First Overnight)

☐ Hold Saturday (Not available at all locations) (Available for FedEx Priority Overnight and FedEx 2Day only)

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4a Express Package Service *Packages under 150 lbs.* Delivery commitment may be later in some areas

☑ FedEx Priority Overnight (Next business morning)

☐ FedEx Standard Overnight (Next business afternoon)

☐ FedEx First Overnight (Earliest next business morning delivery to select locations) (Highest rate)

☐ FedEx 2Day (Second business day)

☐ FedEx Express Saver (Third business day)

FedEx Letter Rate not available. Minimum charge: One pound rate

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☐ FedEx Overnight Freight (Next business day)

☐ FedEx 2Day Freight (Second business day)

☐ FedEx Express Saver Freight (Up to 3 business days)

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5 Packaging

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Declared value limit $500

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☐ No ☐ Yes (As per attached Shipper's Declaration) ☐ Yes (Shipper's Declaration not required)

☐ Dry Ice (Dry Ice, 9, UN 1845) x kg

☐ Cargo Aircraft Only

*Dangerous Goods cannot be shipped in FedEx packaging.

7 Payment

Bill to: ☑ Sender (Account No. in Section 1 will be billed) ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

(Enter FedEx Account No. or Credit Card No. below)

FedEx Account No:

Credit Card No: Exp Date:

Total Packages	Total Weight	Total Declared Value*	Total Charges
1	32.0	$ .00	$

*When declaring a value higher than $100 per shipment, you pay an additional charge. See SERVICE CONDITIONS, DECLARED VALUE, AND LIMIT OF LIABILITY section for further information.

8 Release Signature

K. Lauch Kev

Your signature authorizes Federal Express to deliver this shipment without obtaining a signature and agrees to indemnify and hold harmless Federal Express from any resulting claims.

321

Rev. Date 12/97
Part #153L
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DEPARTMENT OF THE ARMY
HEADQUARTERS, 88TH REGIONAL SUPPORT COMMAND
506 ROEDER CIRCLE
FORT SNELLING, MINNESOTA 55111-4009

REPLY TO
ATTENTION OF

AFRC-CMN-EN (200) September 24, 1998

MEMORANDUM FOR Ohio Bureau of Underground Storage Tanks
ATTN: James Johnson, 6606 Tussing Road – P.O. Box 687
Reynoldsburg, OH 43068-9009

SUBJECT: Registration for Underground Storage Tanks (USTs) in Ohio

1. Attached are five UST registration forms for separate Army Reserve Centers in Ohio. The Reserve Centers are located in Akron, Bellaire, Mansfield, Sharonville, and Warrensville Heights.

2. Please forward the tank registration numbers to me after the registration forms have been processed. If you have any questions about the information that I have provided on the registration forms, please do not hesitate to contact me at 1-800-843-2769 ext. 3821.

5 Encls

Kurt Zacharias
Environmental Protection Specialist

REGISTRATION FOR UNDERGROUND STORAGE TANKS	FEE SCHEDULE
BUREAU OF UNDERGROUND STORAGE TANKS 6606 TUSSING ROAD - P O. BOX 687 REYNOLDSBURG, OHIO 43068-9009	1989: $20.00 PER TANK OTHER YEARS: $25.00 PER TANK

NEW AMENDED CHANGE IN OWNERSHIP ANNUAL RENEWAL (CIRCLE ONE)

Conditions Requiring Registration of an UST

1. Administrative Code Section 1301:7-9-04(D) requires that any person to whom ownership of any UST is transferred shall, within 30 days of the transfer, submit a transfer of UST registration application to the Fire Marshal for each location where an UST subject to the transfer is located. The transfer of ownership fee is $25.00 per UST.
2. Any owner who installs an UST system shall, within thirty days of bringing such UST system into service, submit the registration application to the Fire Marshal along with appropriate fees.
3. If an UST system is installed at a location for which there is a current registration, the owner of the UST system must submit an amended registration along with the appropriate fees to the Fire Marshal within thirty days of bringing the system into service.
4. If an UST system was taken out of service after January 1, 1974, not in compliance with the Ohio Fire Code, the tank must be registered.

Tank Registration Application Fee:

Each tank registration application must be accompanied by a fee made payable to: "Treasurer, State of Ohio".
NOTE: Federal, State and political subdivisions are exempt from paying the fee but they must comply with all other requirements of the underground tank registration rule, including the completion of this form.

When Can A Tank Registration Be Denied?

The State Fire Marshal shall deny a tank registration for the following reason:

1. The application does not provide all the information indicated on the prescribed form.
2. The owner did not submit the tank registration fee required.

Exempt USTs

1. Farm and residential tanks holding 1,100 gallons or less of motor fuel used for non-commercial purposes.
2. Tanks storing heating oil and kerosene for consumptive use on the premises where stored.
3. Underground storage tanks holding 110 gallons or less.
4. Septic tanks and systems for collecting storm water and wastewater.

Penalties

Any person who knowingly fails to register or submits false information may be subject to a civil penalty not to exceed $10,000.00 for each day the registration is late or for which false information is submitted. Any person who knowingly fails to register or submits false information may be subject to conviction of an unclassified felony with a maximum fine of $25,000.00 and maximum imprisonment of 14 months.

I. OWNERSHIP OF TANKS	II. LOCATION OF TANKS
U. S. ARMY RESERVE 88th REGIONAL SUPPORT COMMAND	556 ROY CLIFTON SCOUTEN USARC 271 HEDGES STREET MANSFIELD, OH 44903-2697

NUMBER OF TANKS ONE

III. TYPE OF OWNER	IV.
[X] Federal Government [ ] Commercial [ ] State Government [ ] Private [ ] Local Government	THIS SPACE INTENTIONALLY LEFT BLANK

V. TYPE OF FACILITY

Select the Appropriate Facility Description

____ Gas Station	____ Railroad	____ Commercial	____ Farm
____ Petroleum Distributor	____ Local Government	____ Industrial	____ Residential
____ Air Taxi (Airline)	____ State Government	____ Contractor	____ Other (Explain)
____ Aircraft Owner	____ Federal-Non-Military	____ Trucking/Transport	_____
____ Auto Dealership	X Federal-Military	____ Utilities	_____

VI. CONTACT PERSON IN CHARGE OF TANKS

Name: KURT ZACHARIAS Job Title: ENVIRONMENTAL SPECIALIST

Address: 506 ROEDER CIRCLE City/State/Zip: FT. SNELLING, MN 55111-4009

Phone (include area code): (612) 713-3821

VII. FINANCIAL RESPONSIBILITY

Petroleum UST Release Compensation Board

CERTIFICATE NUMBER: _____

CURRENT DEDUCTIBLE AMOUNT: _____

Mechanism Used to Cover Deductible Amount (Check All That Apply)

- [ ] Self Insured
- [ ] Insurance (Commercial)
- [ ] Risk Retention Group
- [ ] Guarantee & Standby Trust
- [ ] Surety Bond & Standby Trust
- [ ] Letter of Credit & Standby Trust
- [ ] Trust Fund

PROVIDER'S NAME: _____

VIII. CERTIFICATION (Read and sign after completing all sections)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name of Owner: U.S. ARMY RESERVE / 88th RSC (MUST TYPE OR PRINT) Official Title: N/A

Signature: N/A Date: N/A

OR

Authorized Representative: KURT ZACHARIAS (MUST TYPE OR PRINT) Official Title: ENVTL. SPECIALIST

Signature: [signature] Date: 24 SEP 98

IX. DESCRIPTION OF UNDERGROUND STORAGE TANKS (Complete for each tank at this location)						
Tank Identification Number		Tank No 1	Tank No	Tank No	Tank No	Tank No
1. Status of Tank (mark only one)	Currently in Use	X				
	Temporarily Out of Use					
2. Date of Installation (mo/year)		UNK				
3. Estimated Total capacity (gallons)		500				
4. Material of Construction (mark all that apply)						
Exterior:	Asphalt Coated or Bare Steel	X				
	Cathodically Protected Steel					
	Epoxy Coated Steel					
	Composite (Steel with Fiberglass)					
	Fiberglass Reinforced Plastic					
Interior:	Lined Interior					
	Double Walled					
	Polyethylene Tank Jacket					
	Concrete					
	Excavation Liner					
	Unknown	X				
	Other (please specify)					
	Has tank been repaired?					
5. Piping (Material) (Mark all that apply)						
	Bare Steel	X				
	Galvanized Steel					
	Fiberglass Reinforced Plastic					
	Copper					
	Cathodically Protected					
	Double Walled					
	Secondary Containment					
	Unknown					
	Other, please specify					

Tank Identification Number	Tank No 1	Tank No	Tank No	Tank No	Tank No
6. Piping (type) (mark all that apply)					
Suction: no valve at tank					
Suction: valve at tank					
Pressure					
Gravity Feed	X				
Has piping been repaired?					
7. Substance Currently or Last Stored in Greatest Quantity by Volume					
Gasoline					
Diesel					
Gasohol					
Kerosene					
Heating Oil					
Used Oil	X				
Other (please specify)					
Hazardous Substance					
CERCLA name and/or CAS Number					
CAS Number					
Mixture of Substances					
(Please specify)					
X. TANKS OUT OF USE					
1. Closing of Tank					
A. Estimated date last used (mo./day/year)					
B. Date tank was removed (mo./day/year)					
C. Date tank was closed in ground and filled with inert material					
D. Describe inert material					
2. Site Assessment Completed					
Evidence of a leak detected					

XI. LEAK DETECTION METHODS

Tank Identification Number	Tank No 1		Tank No		Tank No		Tank No		Tank No	
1. Release Detection (Mark all that apply)	TANK	PIPING	TANK	PIPING	TANK	PIPING	TANK	PIPING	TANK	PIPING
A. Manual tank gauging	X									
B. Tank tightness testing										
C. Inventory controls										
D. Automatic tank gauging										
E. Vapor monitoring										
F. Groundwater monitoring										
G. Interstitial monitoring double walled tank/piping										
H. Interstitial monitoring/secondary containment										
I. Automatic line leak detectors										
J. Line tightness testing										
K. Other method allowed by state agency-specify										
2. Spill and Overfill Protection										
A. Overfill device installed										
B. Spill device installed										

ENVIRONMENTAL SURVEY REPORT
ASBESTOS, PCB, LEAD BASED PAINT AND RADON SURVEY
88TH REGIONAL SUPPORT COMMAND
SCOUTEN USARC, MANSFIELD, OH (OH-037)
ADMINISTRATION BUILDING & OMS BUILDING

PREPARED FOR:

88th Regional Support Command
506 Roeder Circle
Ft. Snelling, MN 55111

PREPARED BY:

ITI OF SOUTH FLORIDA, INC.
2710 CENTRAL AVE.
St. Petersburg, FL 33712
727 502 9223 727 581 0764 (fax) itisf@aol.com

Adecco Technical Task Order DAY A000003029

Gil Bakshi, MA
Building Inspecter (#A29319)
03 June 2005

TABLE OF CONTENTS

APPENDICES

Signature of Asbestos Inspector . Brian Gibson, 03 June 2005

1.0 INTRODUCTION

International Training Institute of South Florida, Inc. (ITI) has performed a site survey for the 88th Regional Support Command (RSC) property located at the Scouten USARC located in Mansfield, Ohio (OH-037). ITI's work was based on a scope of work prepared by the 88th RSC and administered under Adecco Technical Task Order DAY A000003029.

2.0 PURPOSE

This report provides information concerning the potential types, quantities, locations, and condition of asbestos containing materials, polychlorinated biphenyls (PCBs), lead based paint (LBP) and radon.

The purpose of this document is to assist the 88th RSC in complying with federal and state regulations concerning Asbestos, PCBs, LBPs and Radon. ITI's evaluation is based on a site inspection, information obtained from available documentation located at the site and the 88th RSC, and interviews with persons knowledgeable about the current and past history of the site.

3.0 SITE DESCRIPTION

ADMINISTRATION BUILDING

This one story building is a block structure with a brick exterior finish. Interior walls are painted block and framed drywall partitions. The roof is a flat built-up asphalt mopped surface.

OMS

This one story building is a block structure with a brick exterior finish. Interior walls are painted block. The roof is a flat built-up asphalt mopped surface.

3.1 SCOPE OF WORK

ITI has conducted one or more of the following tasks at this site: collect radon samples, conduct a lead based paint inspection, identify PCBs, and asbestos inspection.

- Conduct radon testing at all identified 88th RSC sites for radon gas concentration levels and review all previous radon test results provided by the government.
- Determine levels of radon gas by installing passive detection equipment (alpha track) in specific buildings of the selected facilities.
- Utilize the laboratory that supplied the alpha track radon detectors for analysis.

- Evaluate each facility be age to determine the potential for existence of lead based paint (LBP) and review any previous LBP surveys conducted by the government
- Where the potential for LBP is determined, ITI will conduct a visual inspection of all (but not limited to) of the following surfaces; doors, door casings and frames, walls, upper and lower, windows sashes, stair stringers, tends, and handrails, ceilings, vents, structural steel, HVAC ducts and window guards at each facility. Samples of suspect surfaces will be conducted by using a portable, on-site measuring instrument that uses X-Ray Fluorescence to determine the existence of LBP.
- Include all information observed as part of the final report to include all existing LBP and its condition, along with all sample locations (CAD drawings and/or field notes).
- Evaluate each facility by age to determine the potential for the existence of PCBs and review any previous PCB surveys conducted by the government.
- Where the potential for PCBs is determined, ITI will conduct a visual inspection of each facility to determine the existence of PCBs and identify all potential equipment. This will require ITI to randomly open one or more like types of equipment to visually confirm the existence of PCB containing material within the equipment.
- Include all information as part of the final report to include all equipment and its condition, potentially containing PCBs.
- Review all previous asbestos surveys conducted by the government.
- ITI will visually inspect each facility and visually verify all information found in pervious surveys and note any variances and/or missing data.
- ITI will identify all asbestos containing materials (ACM) and any potential asbestos containing material (PACM), estimate the amount in the entire building and determine and record the condition of the ACM and PACM in the survey. Samples will be collected on friable PACM only. PACM identified in the significantly damaged and damaged conditions will be analyzed. Friable PACM in good condition will only be analyzed with the approval for the COR or his representative. ITI will maintain and store all samples collected until sent for analysis or authorized disposal by the COR or his representative. All samples not analyzed will be disposed of in accordance with all Federal, State and Local regulations. Any friable ACM or PACM in significantly damaged or damaged condition will be brought to the attention of the COR or his representative as soon as possible.
- ITI will include all information as part of the final report to include all existing ACM, any PACM and the condition of both existing asbestos and PACM.
- Installation and retrieval of government owned alpha tract radon detectors.
- ITI must document all new data and integrate the 88th RSC information into the final report.

3.2 EXECUTIVE SUMMARY

ASBESTOS

Based on ITI's survey of the building, ITI has concluded the following materials contain asbestos:

ADMINISTRATION BUILDING

CONFIRMED ASBESTOS

- Floor tile and mastic (RMT Survey, 1992)
  - Approximately 4,500 SF, located throughout
- Water storage tank insulation (RMT Survey, 1992)
  - Approximately 112 SF, located in Mechanical Room
- Thermal insulation on pipes (RMT Survey, 1992)
  - Approximately 1140 LF, located throughout
- Thermal insulation on pipe fittings (RMT Survey, 1992)
  - Approximately 180 fittings, located throughout
- Exhaust flue mud (RMT Survey, 1992)
  - Approximately 10 SF, located in Mechanical Room
- Transite wall partitions (RMT Survey, 1992)
  - Approximately 230 SF, located in Men's Restroom
- Joint tape and compound (RMT Survey, 1992)
  - Located throughout

PRESUMED ASBESTOS

- Folding curtain room divider
  - Located between Classrooms 1 and 2
- Roofing Material
- Fire Doors
- Electrical Wiring

OMS BUILDING

CONFIRMED ASBESTOS

- No suspect materials observed contain asbestos

PRESUMED ASBESTOS

- Roofing Material
- Fire Doors
- Electrical Wiring

PCB'S

Based on ITI's survey of the building, ITI has concluded that the following types of transformers are located in the building.

ADMINISTRATION BUILDING

- No report

OMS BUILDING

- Light Ballasts – Advance REL-2P32-RH-TP ("No PCB's" on label)

TRANSFORMERS

- There are three pole-mounted transformers located on the exterior of the buildings. (No marking on transformers or poles, presumed to contain PCBs)

LEAD BASED PAINTS

Based on ITI's survey for LBP, ITI has concluded that the following building products contain LBP:

ADMINISTRATION BUILDING

- Interior door in Boiler Room
  - Metal substrate, grey color
  - Fair condition
- Walls in Men's Bathroom
  - Ceramic substrate, tan color
  - Intact condition

OMS BUILDING

- Interior door components
  - Metal substrate, grey color
  - Intact condition
- Interior overhead door components
  - Metal substrate, white color
  - Intact condition

RADON

Based on the inspection conducted on 2-7-03, ITI has concluded that radon exists above 4 piCu/1for this location (See appendix D for this location).

4.0 PREVIOUS INSPECTIONS

Below are the records for previous inspections conducted at this site.

4.1 ASBESTOS

A previous inspection was performed in 1992 by RMT, Inc. Material found in the previous survey that contains asbestos is listed below:

- Water storage tank insulation
- Pipe insulation and fittings
- Exhaust flue mud
- Floor tile & mastic
- Transite wall partitions
- Joint tape and compound

These materials are still present in the USRAC Building.

4.2 PCB'S

- NO PREVIOUS INSPECTIONS

4.3 LEAD BASED PAINT

- NO PREVIOUS INSPECTIONS.

4.4 RADON

- NO PREVIOUS INSPECTIONS

5.0 ASBESTOS CONTAINING MATERIALS

During this survey conducted on 20 August 2003 and 15 December 2004, ITI accredited building inspectors Narciso Martinez (License Number 34253) and Mr. Brian Gibson (License Number 34494) performed a walk-through of the subject building. This was performed in order to identify and delineate locations of homogeneous materials suspected of containing asbestos. A homogeneous material is defined as material that presents similar distinguishing features such as contents. Once homogeneous materials were identified, ITI inspectors collected bulk samples from these materials in order to confirm the presence or absence of asbestos. Samples were collected in accordance with U.S. Environmental Protection Agency (EPA) and Occupational Safety and Health Administration (OSHA).

BULK SAMPLES

During the Inspection, sampling locations were recorded on floor plans and are identified in Appendix A of this report.

A.E.S.L. Environmental located in Tempe, Arizona is the laboratory ITI used for analysis of bulk samples. This independent laboratory successfully participates in the National Voluntary Laboratory Accreditation Program (NVLAP) for bulk asbestos sample analysis. The samples are analyzed using Polarized Light Microscopy (PLM) analysis methodology coupled with dispersion staining solutions to distinguish the unique optical properties of mineral forms. Employing this method of analysis allows asbestos fiber characteristics to colonize, which enables the microscopist to verify the presence or absence, quantity and type of asbestos in the samples. Any product that contains more than one percent asbestos is considered to be ACM by EPA & OSHA. ITI performed QA/QC sampling for the total collected bulk samples (minimum of 10%). PLM results will be located in Appendix A to this report.

5.1 ASSESSMENT METHODOLOGY

All Asbestos Containing Building Materials (ACBM) were classified into the following three types of suspect materials:

1. Surfacing Materials
2. Thermal System Insulation (TSI)
3. Miscellaneous Materials

ACM identified during the building survey was assessed according to the protocol described in 40 CR 763. The protocol evaluates the risk of exposure to airborne asbestos fibers by assessing the condition of each ACM and potential for that ACM to be disturbed and generate fibers. ACM was assessed according to each of the following factors:

(1) Damaged or significantly damaged thermal system insulation ACM.

(2) Damaged friable surfacing ACM.

(3) Significantly damaged friable surfacing ACM.

(4) Damaged or significantly damaged friable miscellaneous ACM.

(5) ACBM with potential for damage.

(6) ACBM with potential for significant damage.

(7) Any remaining friable ACBM or friable suspected ACBM.

ASSESSING CONDITION AND FRIABILITY

NATIONAL EMISSIONS FOR HAZARD AIR POLLUTANTS, 40 CFR Part 61, Subpart M, definitions for asbestos:

- Friable (F): ACM that can be crumbled, crushed, or reduced to powder by hand pressure.
- Nonfriable Category 1(NF1): Asbestos containing packing, gaskets, resilient floor coverings, asphalt roofing products, caulks, and mastics. These bituminous materials are assumed to remain nonfriable if demolition is performed using "normal" methods, but will become friable if severely weathered, sanded, or abraded.
- Nonfriable Category 2 (NF2): ACM excluding Category 1 nonfriable ACM, that, when dry and in its present form, cannot be crumbled, pulverized or reduced to powder by hand pressure; however, these materials may become friable during demolition activities. These products include Transite board and asbestos cement products.

The condition of ACM including severity and extent of damage is classified into one of the following categories:

- Significantly Damaged: ACM that is crumbled, blistered, gouged, marred, delaminated, or otherwise damaged either uniformly or locally over a substantial portion of its surface area.
- Damaged: ACM that is crumbled, blistered, gouged, marred, delaminated, or otherwise damaged either uniformly or locally over a small portion of its surface area.
- Good: ACM with very little or no damage.
- Potential for Disturbance: The potential for disturbance of each ACM was evaluated with respect to the types and frequency of occupancy, whether the ACM was accessible to area occupants, including vibration and air erosion.

5.2 ASBESTOS CONTAINING MATERIALS

ADMINISTRATION BUILDING

CONFIRMED ASBESTOS

- Floor tile and mastic (RMT Survey, 1992)
  - Approximately 4,500 SF, located throughout
  - Good condition, non friable, NF1
- Water storage tank insulation (RMT Survey, 1992)
  - Approximately 112 SF, located in Mechanical Room
  - Good condition, friable
- Thermal insulation on pipes (RMT Survey, 1992)
  - Approximately 1140 LF, located throughout
  - Good condition, friable

- Thermal insulation on pipe fittings (RMT Survey, 1992)
    - Approximately 180 fittings, located throughout
    - Good condition, friable
- Exhaust flue mud (RMT Survey, 1992)
    - Approximately 10 SF, located in Mechanical Room
    - Good condition, friable
- Transite wall partitions (RMT Survey, 1992)
    - Approximately 230 SF, located in Men's Restroom
    - Good condition, non friable, NF2
- Joint tape and compound (RMT Survey, 1992)
    - Located throughout
    - Good condition, friable

PRESUMED ASBESTOS

- Folding curtain room divider
    - Located between Classrooms 1 and 2
- Roofing Material
- Fire Doors
- Electrical Wiring

OMS BUILDING

CONFIRMED ASBESTOS

- No suspect materials observed contain asbestos

PRESUMED ASBESTOS

- Roofing Material
- Fire Doors
- Electrical Wiring

5.3 NON ASBESTOS CONTAINING MATERIAL

ADMINISTRATION BUILDING

- Yellow fiberglass thermal system insulation
    - Located on piping in the Drill Hall
- Plaster Ceilings (PCLG)
    - Located in Bathrooms
- Plaster walls (PL)
    - Located in Bathrooms
- Window Glazing (WG)
    - Located throughout
- Yellow carpet adhesives (CA)
    - Located in Rooms 5, 6, 7, 8
- Expansion joint material (EJ)
    - Located on exterior brick walls

- Gypsum wallboard (PWB)
    - Located throughout

OMS BUILDING

- Window Glazing (WG)
    - Located throughout
- Fiberglass pipe insulation (TSI)
    - 250 LF, located throughout

6.0 POLYCHLORINATED BIPHENYL

PCBs are mixtures of chlorinated biphenyls that are relatively nonflammable and have useful heat exchange and dielectric properties. PCBs were used in the electric industry as dielectric fluid in capacitors and transformers until 1976, when PCBs were banned from use because of their carcinogenic properties. PCBs were also used in the formulation of lubricating oils, pesticides, adhesives, plastics, inks, paints, and sealants. ITI inventoried electrical transformers and light ballasts as part of its scope.
The primary uses of potential PCB materials are associated with transformers (i.e., pad-, pole-, or wall-mounted) or light ballast. ITI recorded available information, such as the manufacturer, serial and model number, condition, date of manufacture, and location of potential PCB-containing equipment.

The principal requirements for PCB management are detailed in the Toxic Substances Control Act (TSCA) federal regulatory program, Title 40; Subchapter R, Part 761, Code of Federal Regulations (CFR). CFR Title 40 Part 761 establishes regulations for the use, storage, removal, disposal, and testing of PCB-containing equipment.

ITI used these management requirements regarding onsite PCB management as guidelines during the Site investigation.

6.1 PCB INVENTORY

ITI personnel observed the following: - Refer to drawing in Appendix B for inspection locations.

Based on ITI's survey of the building, ITI has concluded that the following types of transformers are located in the building.

ADMINISTRATION BUILDING

- No report

OMS BUILDING

- Light Ballasts – Advance REL-2P32-RH-TP ("No PCB's" on label)

TRANSFORMERS

- There are three pole-mounted transformers located on the exterior of the buildings. (No marking on transformers or poles, presumed to contain PCBs)

7.0 LEAD BASED PAINT

During this survey, ITI inspector, Mr. Narciso Martinez performed a walk-through of the subject building on 19 March 2003 for LBP. This was performed in order to identify and delineate locations that would be sampled for lead based paint.

During the Inspection, sampling locations were recorded on working drawings and are identified in Appendix C of this report.

Samples were taken using an X-ray Fluorescence (XRF) Analyzer RMD Model LPA-1 (Serial Number 01908) manufactured by RMD, Inc. of Watertown, MA. An XRF analyzer works by exposing a paint surface to radiation emitted from a sealed source inside the instrument. The source of this radiation is cobalt-57 isotope. This radioactive material spontaneously emits energy in the form of X rays and gamma rays. When these rays are released from an XRF analyzer and hit a painted surface, the elements in the paint matrix - which can include lead – are excited and respond by emitting energy in the form of X rays characteristic of each of the elements. This response is known as Fluorescence.

In 1990 the Department of Housing and Urban Development issued the first comprehensive document addressing lead based paint in hosing. This document, Lead based paint: Interim Guidelines for Hazard Identification and Abatement in Public and Indian Housing established criteria for conducting lead based paint inspections in public and Indian housing.

This Interim Guidelines described how to conduct a lead based paint inspection. State and Federal regulations use the XRF analyzer or laboratory analysis and specify a reading of 1.0 milligrams per square centimeter (XRF) and 0.5 percent by weight (Paint Chips) as the levels that require abatement.

See Appendix C for XRF report.

7.1 LEAD BASED PAINT

Based on ITI's survey for LBP, ITI has concluded that the following building products contain LBP:

ADMINISTRATION BUILDING

- Interior door in Boiler Room
    - Metal substrate, grey color
    - Fair condition

- Walls in Men's Bathroom
    - Ceramic substrate, tan color
    - Intact condition

OMS BUILDING

- Interior door components
    - Metal substrate, grey color
    - Intact condition
- Interior overhead door components
    - Metal substrate, white color
    - Intact condition

7.2 RESPONSIBLE AGENCIES

Various groups and governmental bodies have responsibilities for conducing, evaluating the quality of, or developing a hazard control strategy based upon lead based paint testing. These groups include, but not limited to the following:

- State, Indian tribe, and local governments;
- The US Department of Housing and Urban Development (HUD);
- The US Environmental Protection Agency (EPA);
- Housing authorities;
- Homeowners and landlords; and
- Lead based paint inspectors, risk assessors, and hazard control contractors.

8.0 RADON

Radon is formed from the radioactive decay of radium, a breakdown product of uranium found in minute quantities in most soils. Because radon is an inert gas, it does not react with soil; soil merely serves as a channel through which the gas moves. Soil composition alone is not a good indicator of potential indoor radon problems because radon levels can vary considerably, by as much as a factor of 20 to 100, in the same geographic area.

The EPA regulates the maximum allowable exposure levels for radon and recommends that action be taken to reduce the levels if radon concentrations in a structure that exceeds 4 picocuries per liter (pCi/l) in air.

The objective of the Army Radon Reduction Program (ARRP) is to identify and modify all building structures owned or leased by the Army that have indoor radon concentrations greater then 4 pCi/l. According to the ARRP, if the radon concentration is 4 pCi/l or less and the measured building is geologically and structurally representative of the installation, no further action is required. ITI has conducted radon surveys at this site in February 2003, which included placement, retrieval, and analysis of alpha track canisters, which detect alpha particles emitted from radon.

Based on the inspection conducted on 2-7-03 ITI has concluded that Radon exists above 4 piCu/1for this location (See appendix D for this location).

9.0 ACTION SUMMARY

ASBESTOS

Based on ITI's survey of the building, ITI has concluded the following materials contain asbestos:

ADMINISTRATION BUILDING

CONFIRMED ASBESTOS

- Floor tile and mastic (RMT Survey, 1992)
  - Approximately 4,500 SF, located throughout
- Water storage tank insulation (RMT Survey, 1992)
  - Approximately 112 SF, located in Mechanical Room
- Thermal insulation on pipes (RMT Survey, 1992)
  - Approximately 1140 LF, located throughout
- Thermal insulation on pipe fittings (RMT Survey, 1992)
  - Approximately 180 fittings, located throughout
- Exhaust flue mud (RMT Survey, 1992)
  - Approximately 10 SF, located in Mechanical Room
- Transite wall partitions (RMT Survey, 1992)
  - Approximately 230 SF, located in Men's Restroom
- Joint tape and compound (RMT Survey, 1992)
  - Located throughout

PRESUMED ASBESTOS

- Folding curtain room divider
  - Located between Classrooms 1 and 2
- Roofing Material
- Fire Doors
- Electrical Wiring

OMS BUILDING

CONFIRMED ASBESTOS

- No suspect materials observed contain asbestos

PRESUMED ASBESTOS

- Roofing Material
- Fire Doors
- Electrical Wiring

Based on the findings above, ITI recommends the following:

- Observations for detected asbestos were based on visible and accessible materials; therefore, asbestos containing materials may be present in inaccessible areas such as ceiling plenums, crawl spaces, attics, etc.
- An imminent asbestos hazard was not present at the facility during the site visit.
- Develop and Implement and O & M Plan.

Based on the asbestos present in the building, ITI recommends the following:

- Develop and implement an O & M Plan for all known and suspect ACM

There are three primary objectives of the O & M program: (1) clean up existing contamination (2) minimize further fiber release by controlling access to ACM, and (3) maintain ACM until it is eventually removed. Properly prepared and implemented, this plan will document the building owner's prudence in dealing with asbestos in the building.

PCB'S

Based on ITI's survey of the building, ITI has concluded that the following types of transformers are located in the building:

ADMINISTRATION BUILDING

- No report

OMS BUILDING

- Light Ballasts – Advance REL-2P32-RH-TP ("No PCB's" on label)

TRANSFORMERS

- There are three pole-mounted transformers located on the exterior of the buildings. (No marking on transformers or poles, presumed to contain PCBs)

Based on the findings above, ITI recommends the following:

- Observations for PCB's were based on visible and accessible materials. Therefore, PCB's may be present in other ballasts not observed.
- No imminent PCB hazard was present at the facility during the site visit.
- Any ballast not labeled "Non PCB's" must be handled according to Federal and State regulations for proper disposal.

Based on the labels found on the transformers, ITI recommends the following:

Several light ballasts do not have a label stating the absence of PCBs. Without this statement the ballast is presumed to contain PCBs and must be handled accordingly.

Additional testing may be required before this ballast is disturbed or disposed. At a minimum, requirements of 40 CFR 761 must be followed should sampling be required.

LEAD BASED PAINTS

Based on ITI's survey for LBP, ITI has concluded that the following building products contain LBP:

ADMINISTRATION BUILDING

- Interior door in Boiler Room
  - Metal substrate, grey color
  - Fair condition
- Walls in Men's Bathroom
  - Ceramic substrate, tan color
  - Intact condition

OMS BUILDING

- Interior door components
  - Metal substrate, grey color
  - Intact condition
- Interior overhead door components
  - Metal substrate, white color
  - Intact condition

Based on the findings above, ITI recommends the following:

- Observations for LBP's were based on visible and accessible materials. Therefore, LBP's may be present in inaccessible areas.
- An imminent LBP hazard was not present at the facility during the site visit.
- Workers need to take appropriate safe guards when working, i.e., cutting, grinding, sanding, welding, etc., on areas identified with LBP.
- Conduct a TCLP for all areas identified with LBP prior to disposal.

RADON

Based on the inspection conducted on 2-7-03, ITI has concluded that Radon exists above 4 piCu/1for this location (See appendix D for this location).

Based on the findings above, ITI recommends the following:

- An imminent Radon hazard is present at the facility.
- According to the survey data as provided in Appendix D, there were results over 4 piCu/l for this location.

10.0 WARRANTY

The field and laboratory results reported herein (only if samples are collected and/or analyzed) are considered sufficient in detail and scope to determine the presence of accessible and/or exposed suspect asbestos, PCB's, LBPs or radon gas in the facility. ITI warrants that the findings contained herein have been prepared in general accordance with accepted professional practices at the time of its preparation as applied by similar professionals in the community. Changes in the state of the art or in applicable regulations cannot be anticipated and have not been addressed into this report.

The survey and analytical methods have been used to provide the client with information regarding the presence of accessible and/or exposed suspect asbestos, lead, PCB's or radon in the facility at the time of the inspection. Test results are valid only for material tested. There is a distinct possibility that conditions may exist which could not be identified within the scope of the study or which were not apparent during the site visit. This inspection covered only suspect accessible materials with no destructive survey techniques. The study is also limited to the information available from the client at the time it was conducted.

This report is not intended to be an asbestos, lead based paint, PCB or Radon risk assessment, management plan or project design document and should not be used for the purpose of obtaining quotes.

11.0 SITE PHOTOS

OH-037 Scouten Facility

Vinyl flooring and mastic throughout
Contains asbestos

Pipe and fitting insulation PI-1, PI-4
Contains asbestos

Exterior caulk around door frames CK
Contains asbestos in both buildings

OH-037-002 OMS Facility

Window glazing (WG) in OMS
Contains asbestos

APPENDIX A

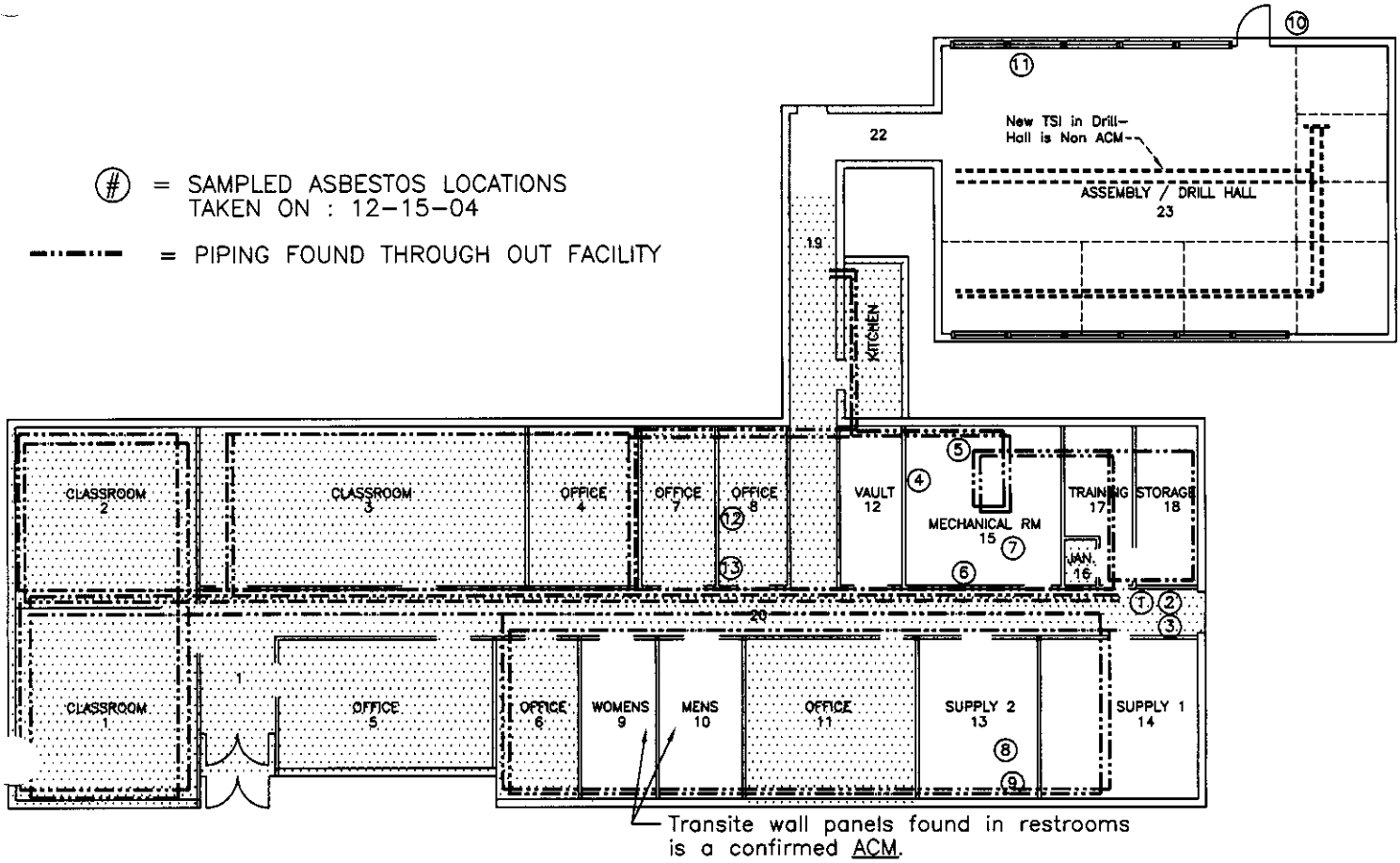
OH-037
Asbestos Summary

FAC ID	Building	Confirmed ACM	Location	Condition
OH-037-001	USARC	Floor tile and mastic (RMT Survey, 1992)	Approximately 4,500 SF, located throughout	Good
		Water storage tank insulation (RMT Survey, 1992)	Approximately 112 SF, located in Mechanical Room	Good
		Thermal insulation on pipes (RMT Survey, 1992)	Approximately 1140 LF, located throughout	Good
		Thermal insulation on pipe fittings (RMT Survey, 1992)	Approximately 180 fittings, located throughout	Good
		Exhaust flue mud (RMT Survey, 1992)	Approximately 10 SF, located in Mechanical Room	Good
		Transite wall partitions (RMT Survey, 1992)	Approximately 230 SF, located in Men's Restroom	Good
		Joint tape and compound (RMT Survey, 1992)	Located throughout	Good
OH-037-002	OMS	None found		

FAC ID	Building	Presumed ACM	Location	Condition
OH-037-001	USARC	Roofing Materials	Located throughout	Good
		Fire doors	Located throughout	Good
		Electrical coatings on wires	Located throughout	Good
OH-037-002	OMS	Roofing Materials	Located throughout	Good
		Fire doors	Located throughout	Good
		Electrical coatings on wires	Located throughout	Good

(#) = SAMPLED ASBESTOS LOCATIONS TAKEN ON : 12-15-04

= PIPING FOUND THROUGH OUT FACILITY



CONFIRMED ASBESTOS CONTAINING MATERIAL

VFT-1 = 9x9 Black Floor Tile
VFT-2 = 9x9 Brown Floor Tile
VFT-3 = 9x9 Red Floor Tile
Asbestos found in all Black Mastic floor adhesive

Note: All Black Mastic found under any flooring to be considered an ACM.

TSI = White & Gray pipe fittings and linear insulation

TI = White & Gray Thermal Insulation on water tank in Mechanical room Exhaust Flue Mud on Boiler

Joint compound & tape found on drywall-walls throughout facility is a confirmed ACM.

[illegible]I **2710 Central Ave** **St Petersburg, Fl.** **33712**	**USARC OH-037-001** **Scouten, Oh.**	**Sampled & Confirmed Asbestos Locations** SCALE: NTS

A. E. S. L.
Environmental
LABORATORY

800 North Mary Street • Tempe, Arizona 85281
(480) 966-7171 • Fax (480) 394-0188

BULK ASBESTOS ANALYSIS SUMMARY REPORT

CLIENT NAME: ITI
2710 Central Avenue
St. Petersburg, FL 33712

A.E.S.L. LAB #: **05-A022**

DATE OF RECEIPT: January 6, 2005
SAMPLE CONDITION: Good
DATE ANALYZED: January 6, 2005

PROJECT: **ADECCO**
OH-037 Admin
REPORT TO: **B. Gibson**

A.E.S.L. LAB SAMPLE ID #	CLIENT SAMPLE ID #	SAMPLE DESCRIPTION & COLOR	TEST RESULTS Pos. / Neg.	TEST RESULTS % & Type	OTHER MATERIALS
A022-1 a	**OH-037-1 a**	**VFT-1 – Black Tile**	**Positive**	**2% Chrysotile**	**98% Non-Fibrous**
A022-1 b	OH-037-1 b	Black Mastic	Trace	<1% Chrysotile	99% Non-Fibrous
A022-2 a	**OH-037-2 a**	**VFT-2 – Brown Tile**	**Positive**	**4% Chrysotile**	**96% Non-Fibrous**
A022-2 b	**OH-037-2 b**	**Black Mastic**	**Positive**	**2% Chrysotile**	**98% Non-Fibrous**
A022-3 a	**OH-037-3 a**	**VFT-3 – Red Tile**	**Positive**	**3% Chrysotile**	**97% Non-Fibrous**
A022-3 b	**OH-037-3 b**	**Black Mastic**	**Positive**	**2% Chrysotile**	**98% Non-Fibrous**
A022-4	**OH-037-4**	**TSI-1 – White TSI**	**Positive**	**10% Chrysotile**	**10% Cellulose 80% Non-Fibrous**
A022-5	OH-037-5	TSI-2 – NAAPCR	---	---	---
A022-6	OH-037-6	TSI-3 – NAAPCR	---	---	---
A022-7	OH-037-7	TSI-4 – NAAPCR	---	---	---
A022-8	OH-037-8	TSI-5 – NAAPCR	---	---	---
A022-9	OH-037-9	PCLG – Tan Material	Negative	---	100% Non-Fibrous
A022-10	OH-037-10	EJ – Gray Material	Negative	---	100% Non-Fibrous
A022-11	OH-037-11	WG – Gray Glaze	Negative	---	100% Non-Fibrous
A022-12	OH-037-12	PWB – White Material	Negative	---	10% Cellulose 90% Non-Fibrous
A022-13	OH-037-13	CA – Yellow Material	Negative	---	100% Non-Fibrous

NAAPCR – Not Analyzed As Per Customer Request

Method: Polarized Light Microscopy, EPA Method 600/R-93/116

The result quantitations reported are an estimation based on the methods of visual microscopic estimation, which is considered only a semi-quantitative technique. Also, this report is indicative only of the sample material A.E.S.L. Laboratory received. Results do not necessarily reflect the makeup of the entire span of the material from which the samples were derived. Sampling techniques and/or sample handling may affect the integrity of the sample/s before submission to A.E.S.L. Laboratory and hence the outcome of the laboratory results. Samples not destroyed by testing are retained a minimum of thirty days.

A.E.S.L. Laboratory, recommends re-analysis by point count or Transmission Electron Microscopy (TEM) for materials that are found to contain less than ten percent (<10%) asbestos by PLM.

Analyst: Shawn Kearney

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Turnaround Time: ☒ RUSH ☐ Same Day ☐ 24 Hour ☐ 48 Hour

☒ Stop @ First Positive
☐ Read All Samples

BULK ASBESTOS SAMPLE

CHAIN OF CUSTODY

A.E.S.L. LABORATORY # : 05-A022

Page 1 of 1

Client Name: ITI of South Florida, Inc. Contact: B. Gibson Phone: (727) 586-7500 Fax: (727) 581-0764

Address: 2710 Central Avenue City: St. Petersburg State: Florida Zip: 33712

PROJECT: ADECCO PROJECT ID: OH-037 admin DATE SAMPLES TAKEN: 12-15-04

SAMPLES REC'D (#): 13 DATE REC'D: 1/6/05 CONDITION: Good SAMPLES ACCEPTED (Y, N): _____ IF NO, WHY? _____

*** SAMPLES TO BE RETURNED TO CLIENT AFTER 30 DAYS OR DISPOSED OF BY A.E.S.L. (D R): _____ ***
(If NOT SPECIFIED WILL AUTOMATICALLY BE DISPOSED OF AFTER 30 DAYS)

A.E.S.L. Sample #	Client ID #	Sample Location	Sample Description	A.E.S.L. Sample #	Client ID #	Sample Location	Sample Description
1	OH-037-1		VFT-1 Black Blk tile w/ Black Mastic	10	OH-037-10		EJ EXT DRYWALL
2	OH-037-2		VFT-2 Brown 9x9 Blk	11	OH-037-11		WG Grey Gluze
3	OH-037-3		VFT-3 Red 9x9 Blk	12	OH-037-12		PWB XO office white drywall
4	OH-037-4		TSI-1 Blk Roum	13	OH-037-13	Rm 8	CA Curtain yellow cld
5	OH-037-5		TSI-2 "				
6	OH-037-6		TSI-3 "				
7	OH-037-7		TSI-4 "				
8	OH-037-8		TSI-5 comm Rm				
9	OH-037-9		Pelg NBE comm				

A.E.S.L. Environmental Laboratory
800 North Mary Street
Tempe, Arizona 85281

RELINQUISHED BY: Brian Gutierrez Time: 1000H DATE: 1-4-05

RECEIVED BY: _____ Time: _____ DATE: 1/6/05

A. E. S. L.
Environmental
LABORATORY
800 North Mary Street • Tempe, Arizona 85281
(480) 966-7171 • Fax (480) 394-0188

BULK ASBESTOS ANALYSIS SUMMARY REPORT

CLIENT NAME: ITI
514 1st Ave. SW
Largo, FL 33770

DATE OF RECEIPT: September 9, 2003
SAMPLE CONDITION: Good
DATE ANALYZED: September 9, 2003

A.E.S.L. LABORATORY #: **03-A885**

PROJECT: **SSG Roy Clifton Scouten USARC**
Group: B03080H037001*

A.E.S.L. LAB SAMPLE ID #	CLIENT SAMPLE ID #	SAMPLE DESCRIPTION & COLOR	TEST RESULTS Pos. / Neg.	% & Type	OTHER MATERIALS
A885-1	001*1	PL-1 – White Plaster	Negative	---------	1% Cellulose 99% Non-Fibrous
A885-2	001*2	PL-1 – White Plaster	Negative	---------	1% Cellulose 99% Non-Fibrous
A885-3	001*3	PL-1 – White Plaster	Negative	---------	1% Cellulose 99% Non-Fibrous

Legend: NAAPCR - Not analyzed as per customer request

Method: Polarized Light Microscopy, EPA Method 600/R-93/116

The result quantitations reported are an estimation based on the methods of visual microscopic estimation which is considered only a semi-quantitative technique. Also, this report is indicative only of the sample material A.E.S.L. Laboratory received. Results do not necessarily reflect the makeup of the entire span of the material from which the samples were derived. Sampling techniques and/or sample handling may affect the integrity of the sample/s before submission to A.E.S.L. Laboratory and hence the outcome of the laboratory results. Samples not destroyed by testing are retained a minimum of thirty days.

A.E.S.L. Laboratory, recommends re-analysis by point count or Transmission Electron Microscopy (TEM) for materials that are found to contain less than ten percent (<10%) asbestos by PLM.

This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

Analyst: R Keneson
Ronnie Keneson

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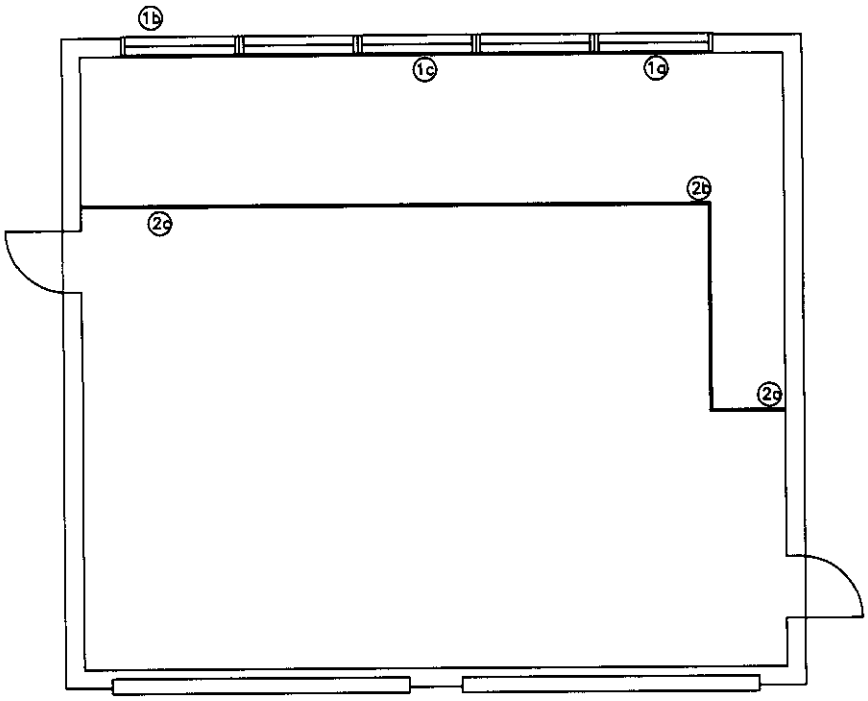

MOTORPOOL

(#) = Sampled Asbestos Locations taken on : 12-15-04

[illegible]I **100 2nd Ave S.** **St Petersburg, Fl.** **33701**	**USARC OH 037-002** **Scouten Motorpool**	**Sampled Asbesto Locations** SCALE: NTS

A. E. S. L.
Environmental
LABORATORY

800 North Mary Street • Tempe, Arizona 85281
(480) 966-7171 • Fax (480) 394-0188

BULK ASBESTOS ANALYSIS SUMMARY REPORT

CLIENT NAME: ITI
2710 Central Avenue
St. Petersburg, FL 33712

A.E.S.L. LAB #: **05-A021**

DATE OF RECEIPT: January 6, 2005
SAMPLE CONDITION: Good
DATE ANALYZED: January 7, 2005

PROJECT: **ADECCO**
OH-037-002 OMS
REPORT TO: **Brian Gibson**

A.E.S.L. LAB SAMPLE ID #	CLIENT SAMPLE ID #	SAMPLE DESCRIPTION & COLOR	TEST RESULTS Pos. / Neg.	TEST RESULTS % & Type	OTHER MATERIALS
A021-1	OH-037-002-1	WG – White Material	Negative	---------	100% Non-Fibrous
A021-2	OH-037-002-2	TSI – Yellow TSI	Negative	---------	30% Cellulose 70% Fibrous Glass

Method: Polarized Light Microscopy, EPA Method 600/R-93/116

The result quantitations reported are an estimation based on the methods of visual microscopic estimation, which is considered only a semi-quantitative technique. Also, this report is indicative only of the sample material A.E.S.L. Laboratory received. Results do not necessarily reflect the makeup of the entire span of the material from which the samples were derived. Sampling techniques and/or sample handling may affect the integrity of the sample/s before submission to A.E.S.L. Laboratory and hence the outcome of the laboratory results. Samples not destroyed by testing are retained a minimum of thirty days.

A.E.S.L. Laboratory, recommends re-analysis by point count or Transmission Electron Microscopy (TEM) for materials that are found to contain less than ten percent (<10%) asbestos by PLM.

This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of A.E.S.L.

Analyst: Shawn Kearney

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Turnaround Time: [X] RUSH [ ] Same Day [ ] 24 Hour [ ] 48 Hour

[X] Stop @ First Positive
[ ] Read All Samples

BULK ASBESTOS SAMPLE

CHAIN OF CUSTODY

A.E.S.L. LABORATORY # : 05-A021

Page 1 of 1

Client Name: ITI of South Florida, Inc. Contact: Brian Gibson Phone: (727) 586-7500 Fax: (727) 581-0764

Address: 2710 Central Avenue City: St. Petersburg State: Florida Zip: 33712

PROJECT: ADECCO PROJECT ID: 04037-002 OMS DATE SAMPLES TAKEN: 12-15-04

SAMPLES REC'D (#): 2 DATE REC'D: 1/6/04 CONDITION: good SAMPLES ACCEPTED (Y), N): _____ IF NO, WHY? _____

*** SAMPLES TO BE RETURNED TO CLIENT AFTER 30 DAYS OR DISPOSED OF BY A.E.S.L. (D R): _____ ***
(IF NOT SPECIFIED WILL AUTOMATICALLY BE DISPOSED OF AFTER 30 DAYS)

A.E.S.L. Sample #	Client ID #	Sample Location	Sample Description	A.E.S.L. Sample #	Client ID #	Sample Location	Sample Description
1	04-037-002-1		WG				
2	04-037-002-2		TS 1				

A.E.S.L. Environmental Laboratory
800 North Hary Street
Tempe, Arizona 05281

RELINQUISHED BY: Brian Gibson Time: NOON DATE: 1-4-05

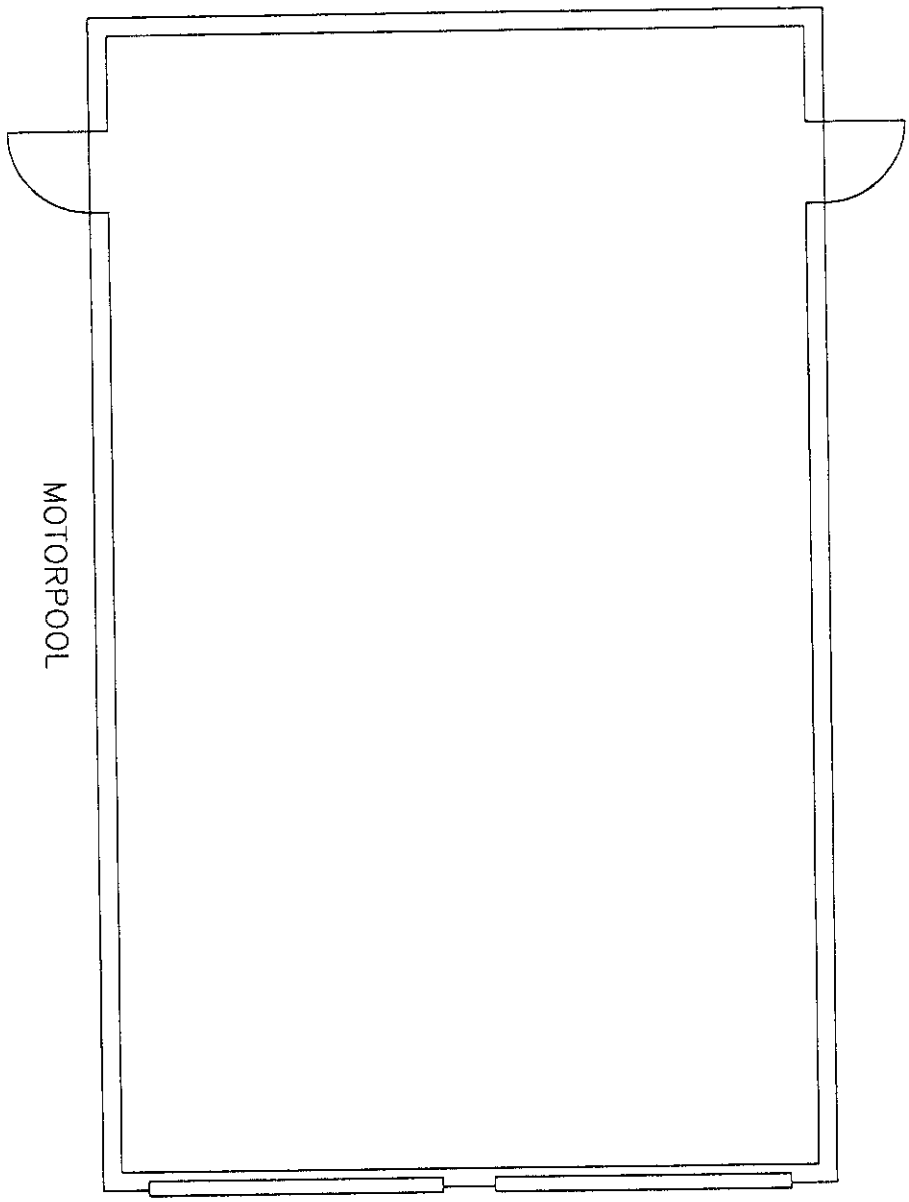
RECEIVED BY: [signature] Time: DATE: 1/6/05

APPENDIX B

OH 037-002 USARC

OMS Building

Room number/name	Ballast #/Manufacturer	Label Stating No PCB's
Garage Bay	Advance REL-2P32-RH-TP	Yes
Garage Bay	Advance REL-2P32-RH-TP	Yes



FTI 100 2nd Ave S. St Petersburg, Fl. 33701	USARC Mansfield Building OH 037-002 Scouten Motorpool	Floor Plan 19 Jan. 2005 SCALE: NTS

APPENDIX C

Facility number	OH037
Location (city and state)	MANSFIELD OHIO
Building description	RED BRICK 1 STORY BLDG.
JBN file number	3-18-3-1404

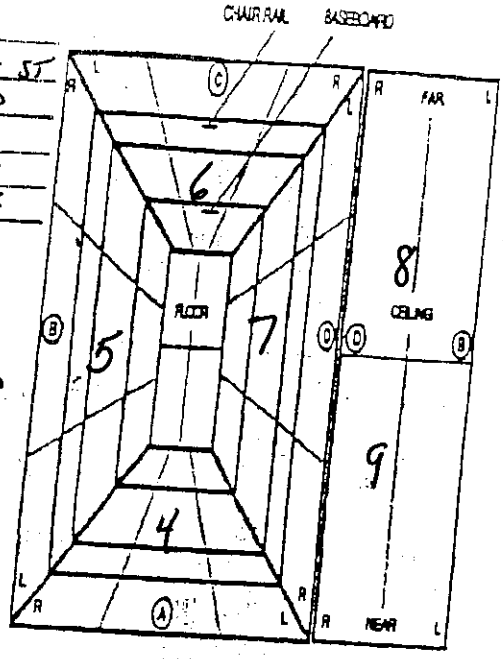
Reading #	Value	Room #	Substrate	Color	Condition	Notes
42	1.70	5	METAL	GREY	fair	
62	9.9	8	TILE	TAN	GOOD	
63	9,9	8	TILE	TAN	GOOD	

1TI 100 2nd Ave S. St Petersburg, Fl. 33701	USARC Mansfield Building OH 037 Scouten	Floor Plan 19 Jan. 2005 SCALE: NTS

SCOTTSVILLE
3-18-3-1404

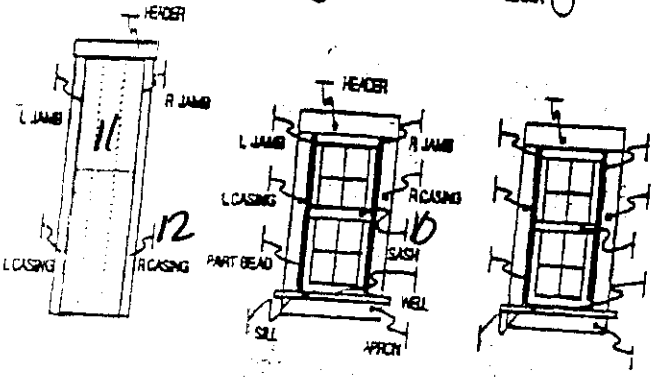
ADDRESS
271
HEDGES ST
MANSFIELD
OHIO
JOB: OH037
CALCHK 1, 2, 3

UNIT: 3
ROOM: 1
CLASSROOM



READINGS ON UNSOUND PAINT ARE CIRCLED

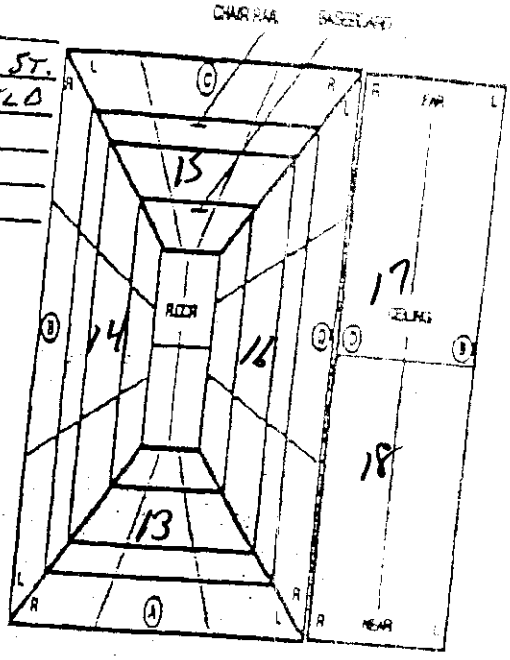
WALL (A) (B) (C) (D)
LEFT
RIGHT
CENTER



COMMENTS: Walls are BLUE finish and of CONCRETE BLOCK substrate. Windows are SILVER finish and of METAL substrate. Window componets are SILVER finish and of METAL substrate. Doors are LAQUER finish and of WOOD substrate. Door componets are BLUE finish and of METAL substrate. Ceiling is WHITE finish and of SHEETROCK substrate.

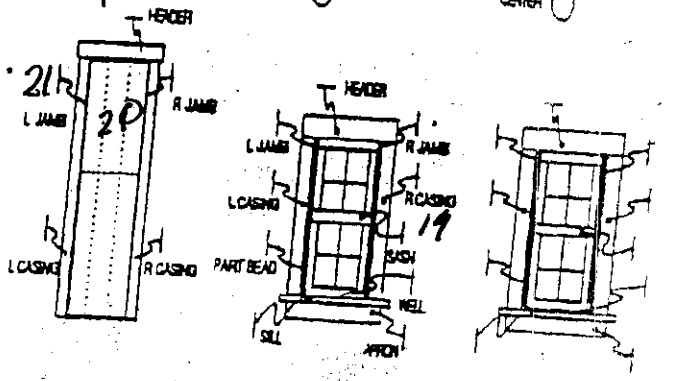
ADDRESS
271
HEDGES ST.
MANSFIELD
OHIO
JOB: OH037
CALCHK —

UNIT: 3
ROOM: 2
OPERATORY ROOM



READINGS ON UNSOUND PAINT ARE CIRCLED

WALL (A) (B) (C) (D)
LEFT
RIGHT
CENTER



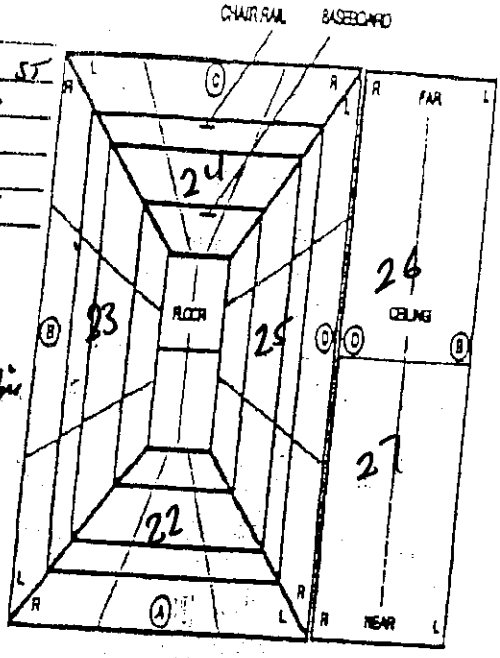
COMMENTS: Walls are BLUE finish and of CONCRETE BLOCK substrate. Windows are SILVER finish and of METAL substrate. Window componets are SILVER finish and of METAL substrate. Doors are LAQUER finish and of WOOD substrate. Door componets are BLUE finish and of METAL substrate. Ceilings are WHITE finish and of SHEETROCK substrate.

WALL (B) is SHEETROCK
ACO, is CONCRETE BLOCK

SCOOTIN USARE
File # 3-18-3-1404

ADDRESS
271
Hedges St
Mansfield
Ohio
JOB: OH037
CALCHK ~~2~~ 3

UNIT # 3
ROOM # 3
1st SLG office

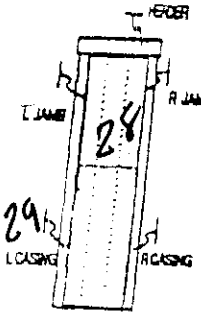


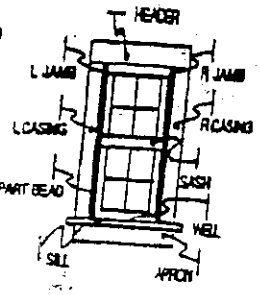
READINGS ON UNSOUND PAINT ARE CIRCLED

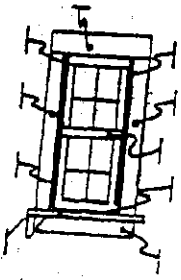
WALL ~~A~~ B C D
LEFT
RIGHT
~~CENTER~~ 2

WALL A B C D
LEFT
RIGHT
CENTER

WALL A B C D
LEFT
RIGHT
CENTER



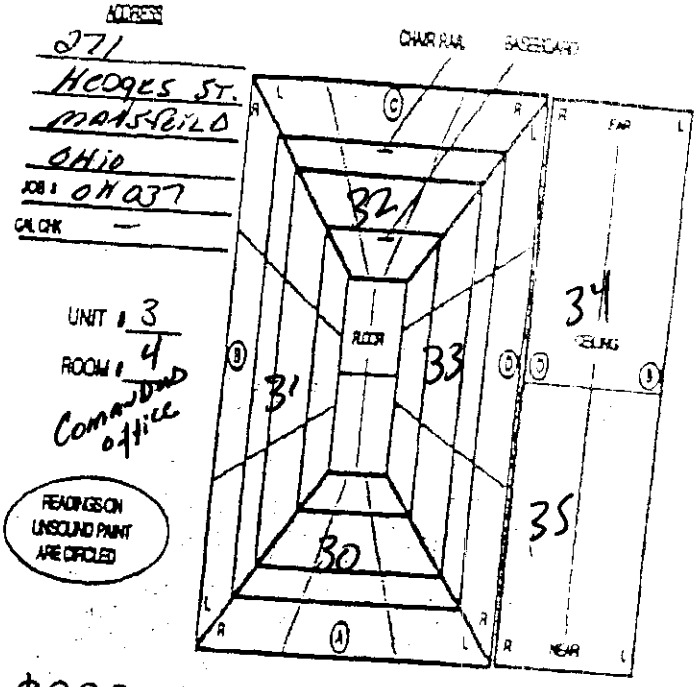




COMMENTS: Walls are Brown/White finish and of Concrete Block substrate. Windows are Silver finish and of metal substrate. Window componets are Silver finish and of metal substrate. Doors are Lacquer finish and of wood substrate. Door componets are Brown finish and of metal substrate. Ceiling is White finish and of Sheetrock substrate.
WALL ABC - CONCRETE BLOCK
WALL D is SHEETROCK

ADDRESS
271
Hodges St.
Mansfield
Ohio
JOB: OH037
CALCHK —

UNIT # 3
ROOM # 4
Command office

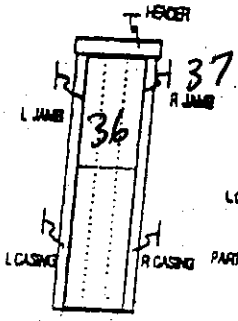


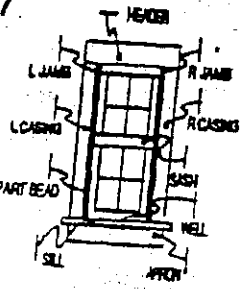
READINGS ON UNSOUND PAINT ARE CIRCLED

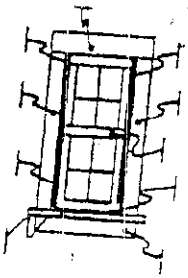
WALL ~~A~~ B C D
LEFT
RIGHT
~~CENTER~~

WALL A B C D
LEFT
RIGHT
CENTER

WALL A B C D
LEFT
RIGHT
CENTER





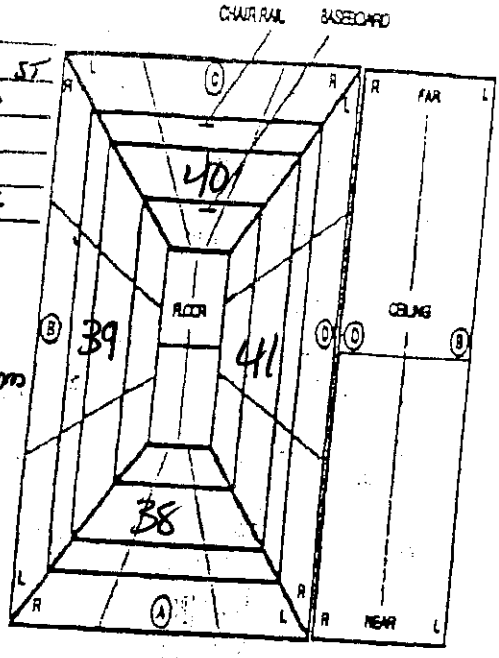


COMMENTS: Walls are Brown/White finish and of Concrete Block substrate. Windows are Silver finish and of metal substrate. Window componets are Silver finish and of metal substrate. Doors are Lacquer finish and of wood substrate. Door componets are Brown finish and of metal substrate. Ceilings are White finish and of Sheetrock substrate.
WALL B is Sheetrock
WALL A, C, D Concrete Block

SCOOTIN USARE
file 3-18-3-1404

ADDRESS
271
HEDGES ST
MANSFIELD
OHIO
JOB # OH037
CALCHK 1, 2, 3

UNIT # 3
ROOM # 5
BOILER ROOM

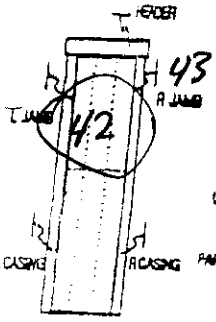


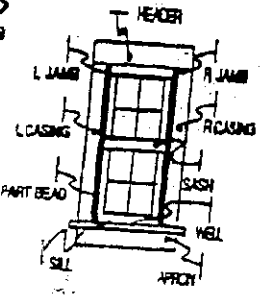
READINGS ON UNSOUND PAINT ARE CIRCLED

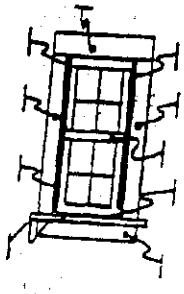
WALL (A) (B) (C) (D)
LEFT
RIGHT
CENTER

WALL (A) (B) (C) (D)
LEFT
RIGHT
CENTER

WALL (A) (B) (C) (D)
LEFT
RIGHT
CENTER



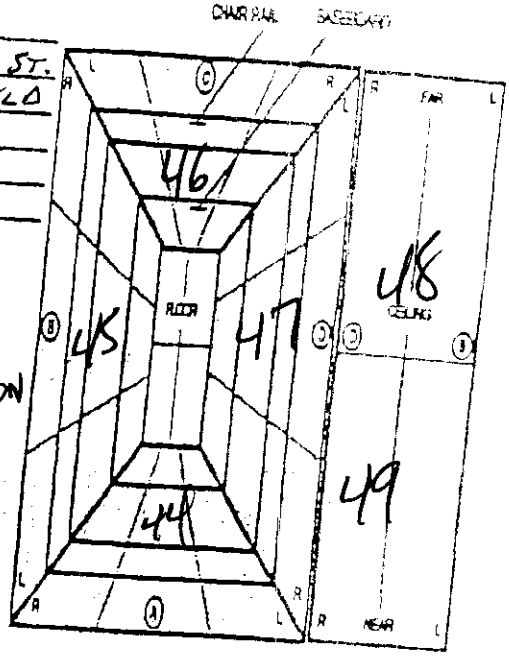




COMMENTS: Walls are WHITE finish and of CONCRETE BLOCK substrate. Windows are SILVER finish and of METAL substrate. Window componets are SILVER finish and of METAL substrate. Doors are GREY finish and of METAL substrate. Door componets are GREY finish and of METAL substrate. Ceiling is WHITE finish and of SHEETROCK substrate.

ADDRESS
271
HEDGES ST.
MANSFIELD
OHIO
JOB # OH037
CALCHK —

UNIT # 3
ROOM # 6
RETENTION

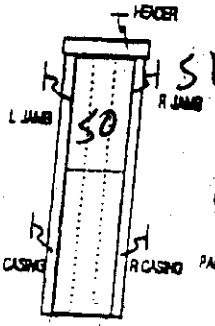


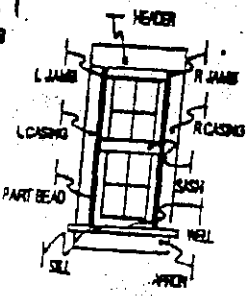
READINGS ON UNSOUND PAINT ARE CIRCLED

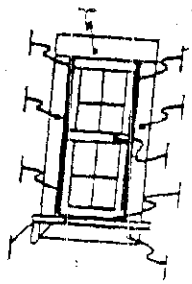
WALL (A) (B) (C) (D)
LEFT
RIGHT
CENTER

WALL (A) (B) (C) (D)
LEFT
RIGHT
CENTER

WALL (A) (B) (C) (D)
LEFT
RIGHT
CENTER





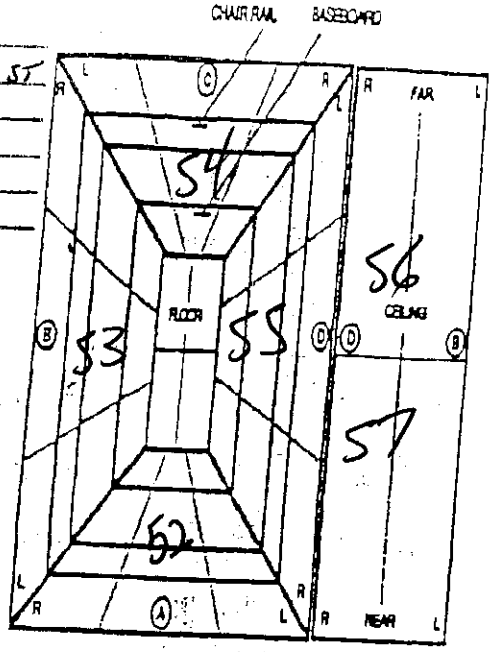


COMMENTS: Walls are TAN finish and of CONCRETE BLOCK substrate. Windows are SILVER finish and of METAL substrate. Window componets are SILVER finish and of METAL substrate. Doors are LAQUER finish and of WOOD substrate. Door componets are TAN finish and of METAL substrate. Ceilings are WHITE finish and of SHEETROCK substrate.

SCOOTIN USARE
file # 3-18-3-1404

ADDRESS
271
HEDGES ST
MANSFIELD
OHIO
JOB: OH037
CAL CHK 1, 2, 3

UNIT # 3
ROOM # 7
KITCHEN

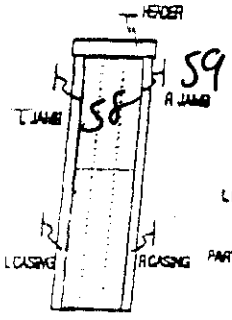


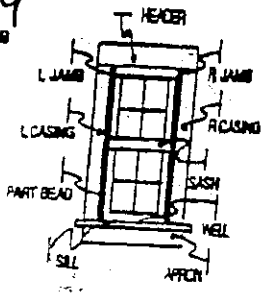
READINGS ON UNSOUND PAINT ARE CIRCLED

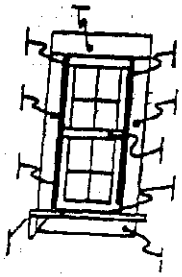
WALL A B C D
LEFT
RIGHT
CENTER

WALL A B C D
LEFT
RIGHT
CENTER

WALL A B C D
LEFT
RIGHT
CENTER



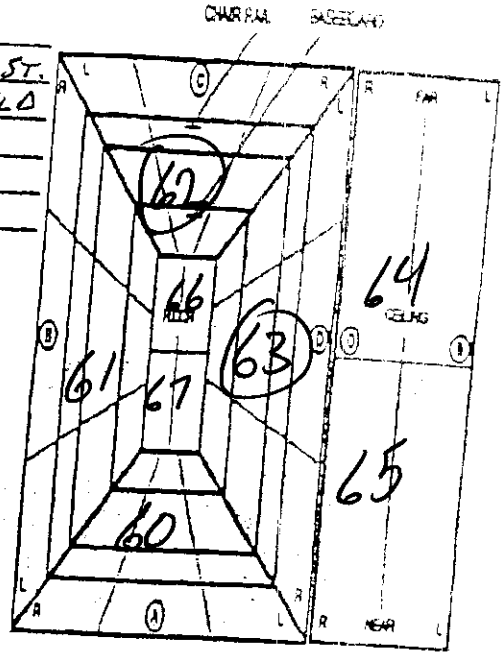




COMMENTS: Walls are BLOW/WHITE finish and of CONCRETE BLOCK substrate. Windows are SILVER finish and of METAL substrate. Window components are SILVER finish and of METAL substrate. Doors are LAQUER finish and of WOOD substrate. Door components are BROWN finish and of METAL substrate. Ceiling is WHITE finish and of SHEETROCK substrate.

ADDRESS
271
HEDGES ST.
MANSFIELD
OHIO
JOB: OH037
CAL CHK —

UNIT # 3
ROOM # 8
MENS RR

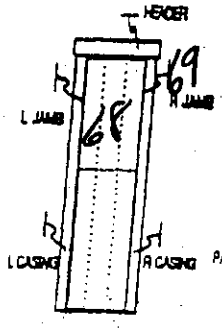


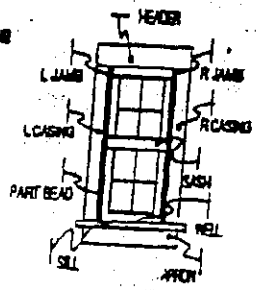
READINGS ON UNSOUND PAINT ARE CIRCLED

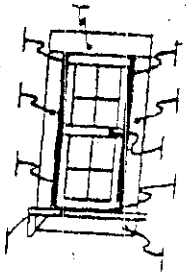
WALL A B C D
LEFT
RIGHT
CENTER

WALL A B C D
LEFT
RIGHT
CENTER

WALL A B C D
LEFT
RIGHT
CENTER





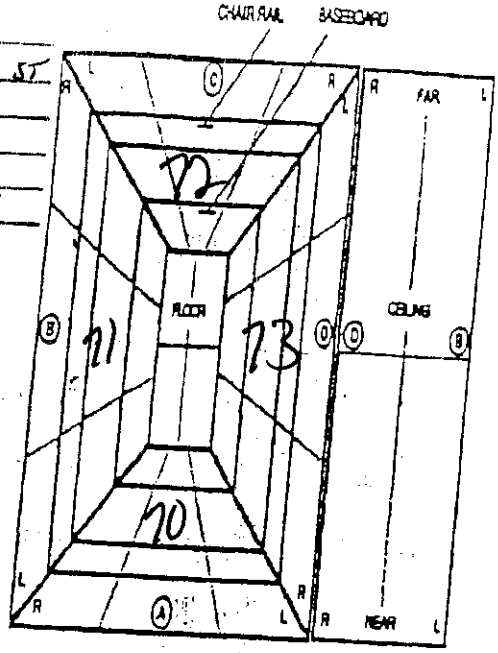


COMMENTS: Walls are TAN finish and of TILE/SHEETROCK substrate. Windows are SILVER finish and of METAL substrate. Window components are SILVER finish and of METAL substrate. Doors are LAQUER finish and of WOOD substrate. Door components are TAN finish and of METAL substrate. Ceilings are WHITE finish and of SHEETROCK substrate.

SCOOTIN USARE
file # 3-18-3-1404

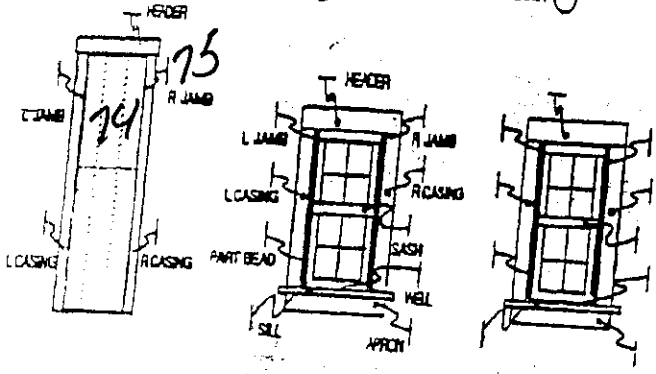
ADDRESS
271
HODGES ST
MANSFIELD
OHIO
JOB: OH037
CAL CHK 7, 3, 3

UNIT: 3
ROOM: 9
Supply



READINGS ON UNSOUND PAINT ARE CIRCLED

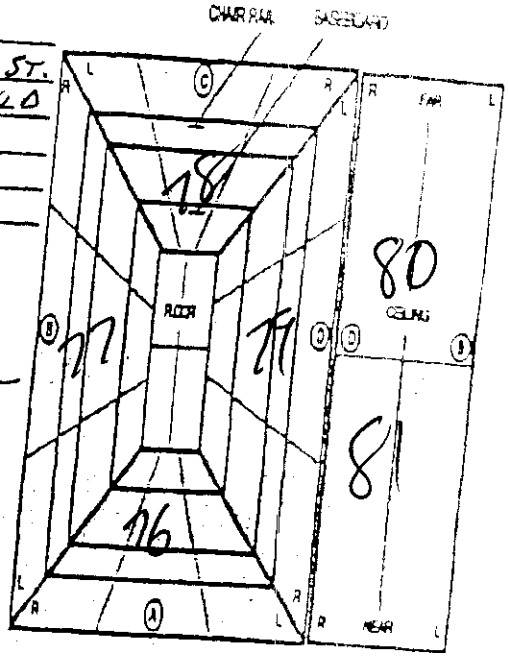
WALL (A) (B) (C) (D)
LEFT
RIGHT
CENTER



COMMENTS: Walls are TAN finish and of CONCRETE BLOCK substrate. Windows are SILVER finish and of METAL substrate. Window componets are SILVER finish and of METAL substrate. Doors are LAQUER finish and of WOOD substrate. Door componets are TAN finish and of METAL substrate. Ceiling is WHITE finish and of SHEETROCK substrate.

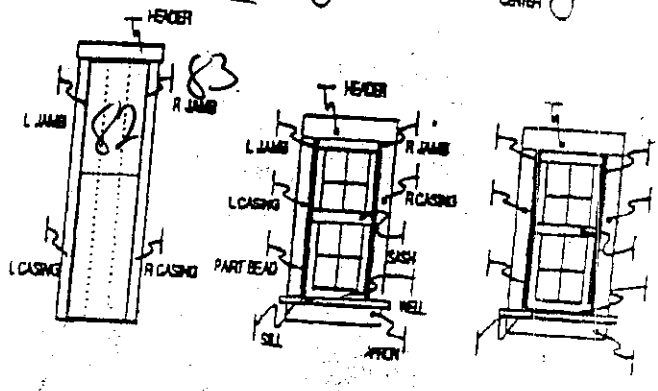
ADDRESS
271
HODGES ST.
MANSFIELD
OHIO
JOB: OH037
CAL CHK —

UNIT: 3
ROOM: 10
PERSONAL



READINGS ON UNSOUND PAINT ARE CIRCLED

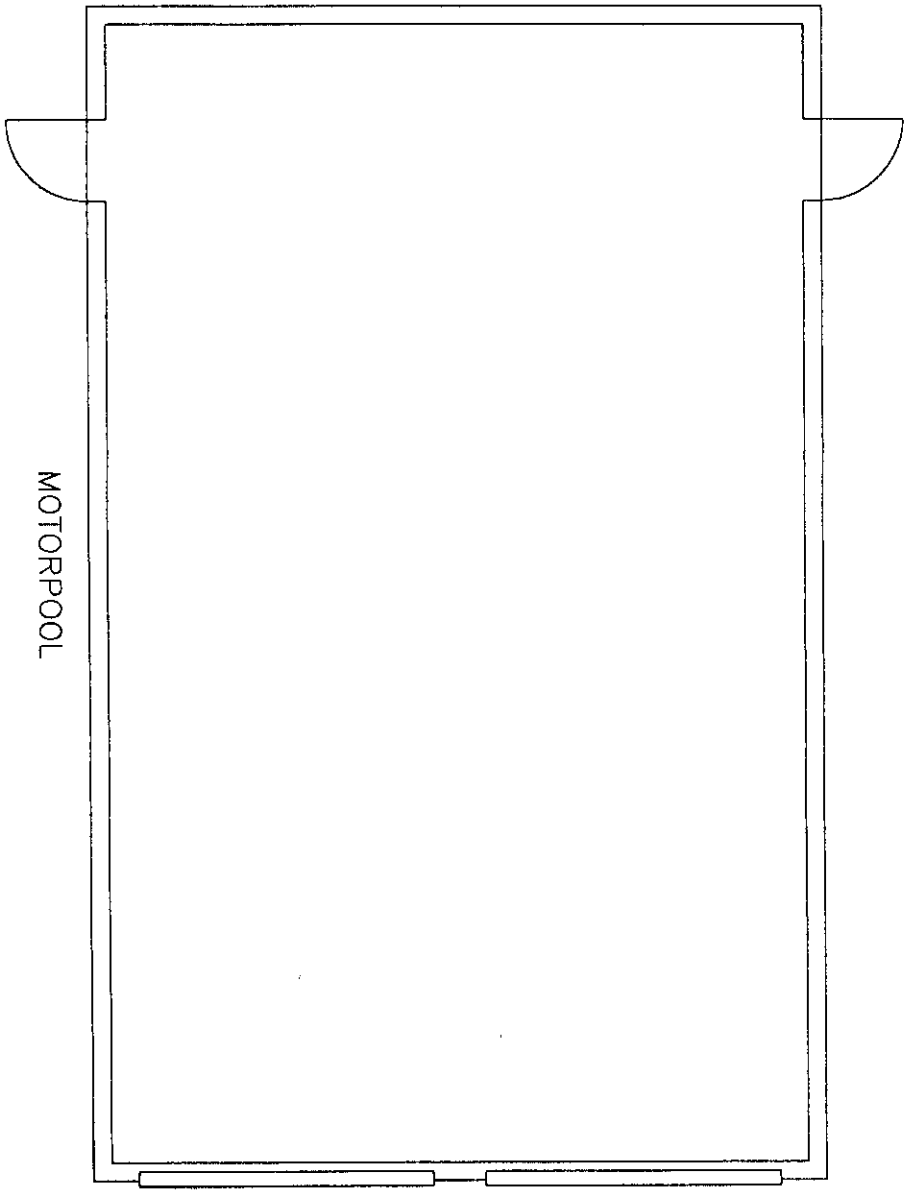
WALL (A) (B) (C) (D)
LEFT
RIGHT
CENTER



COMMENTS: Walls are BROWN/OLIVE finish and of CONCRETE BLOCK substrate. Windows are SILVER finish and of METAL substrate. Window componets are SILVER finish and of METAL substrate. Doors are LAQUER finish and of WOOD substrate. Door componets are BROWN finish and of METAL substrate. Ceilings are WHITE finish and of SHEETROCK substrate.

Facility number	OH037
Location (city and state)	MANSFIELD OHIO
Building description	OMS SHOP RED BRICK BUILDING
JBN file number	3-19-3-1053

Reading #	Value	Room #	Substrate	Color	Condition	Notes
11	1.0	SHOP	METAL	GREY	GOOD	
14	1.70	OVER HEAD	METAL	WHITE	GOOD	
15	1.80	OVER HEAD	METAL	WHITE	GOOD	



ΓΙ 100 2nd Ave S. St Petersburg, Fl. 33701	USARC Mansfield Building OH 037-002 Scouten Motorpool	Floor Plan 19 Jan. 2005 SCALE: NTS

SCOUTIN OMS

3-19-3 1053

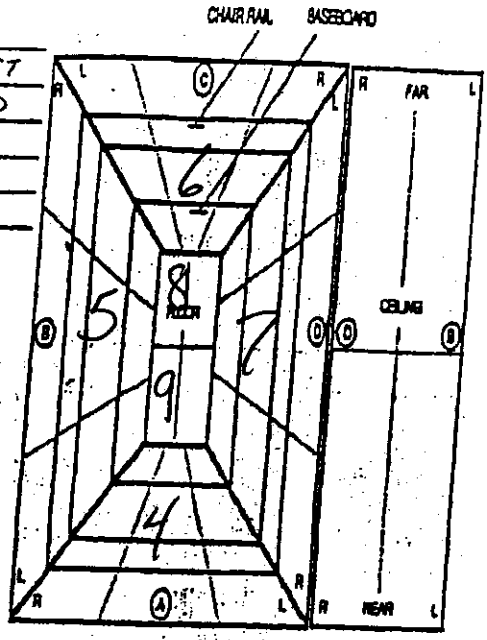
ADDRESS 271 Hedges ST Marion OHio

JOB # OH037

CAL CHK 4,2,3

UNIT # 4

ROOM # ____



READINGS ON UNSOUND PAINT ARE CIRCLED

WALL A B C D

LEFT

RIGHT

JER

WALL A B C D

LEFT

RIGHT

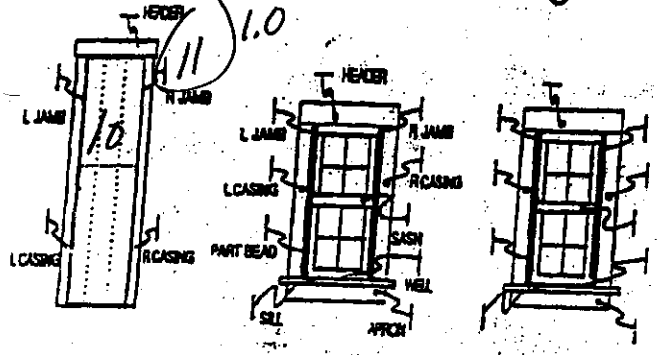
CENTER

WALL A B C D

LEFT

RIGHT

CENTER



COMMENTS: Walls are BLK/WHITE finish and of CONCRETE BLOCK substrate. Windows are — finish and of METAL substrate. Window componets are SILVER finish and of METAL substrate. Doors are GREY finish and of METAL substrate. Door componets are GREY finish and of METAL substrate. Ceiling is WHITE finish and of METAL substrate.

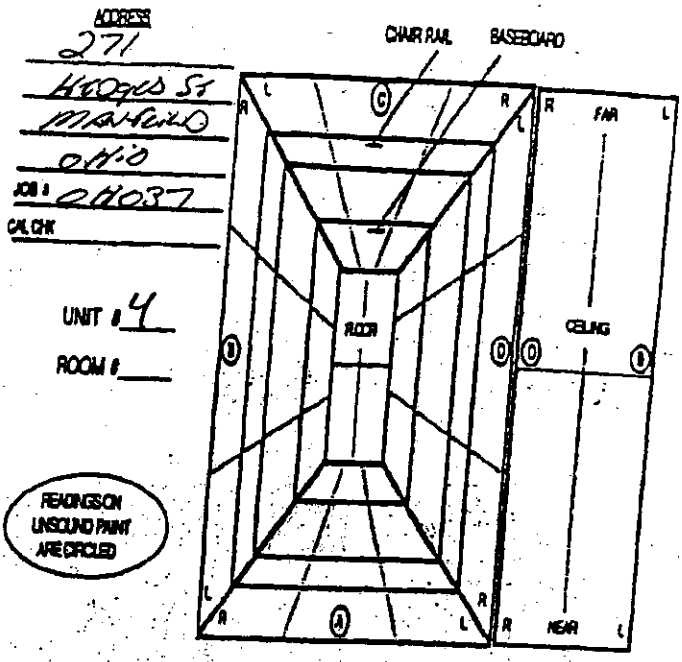
ADDRESS 271 Hedges ST Marion OHio

JOB # OH037

CAL CHK

UNIT # 4

ROOM # ____



READINGS ON UNSOUND PAINT ARE CIRCLED

WALL A B C D

LEFT

RIGHT

CENTER

WALL A B C D

LEFT

RIGHT

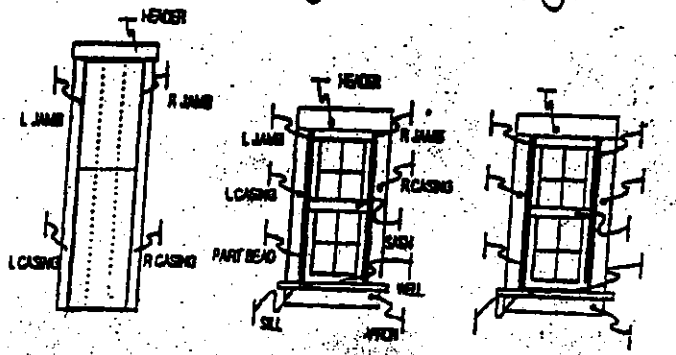
CENTER

WALL A B C D

LEFT

RIGHT

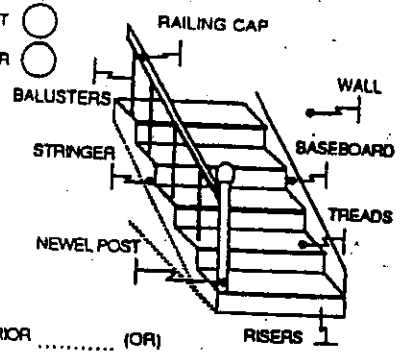
CENTER



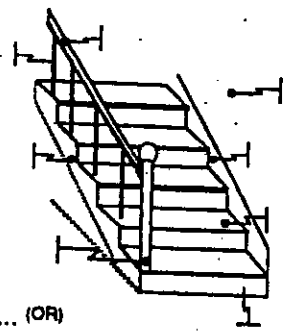
COMMENTS: Walls are ____ finish and of ____ substrate. Windows are ____ finish and of ____ substrate. Window componets are ____ finish and of ____ substrate. Doors are ____ finish and of ____ substrate. Door componets are ____ finish and of ____ substrate. Ceilings are ____ finish and of ____ substrate.

Scottin Oms
3-A-3-1053

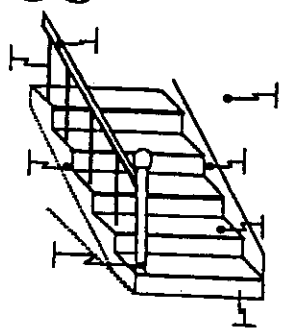
EXTERIOR ..... (OR)
ROOM # .....
WALL (A) (B) (C) (D)
LEFT ○
RIGHT ○
CENTER ○



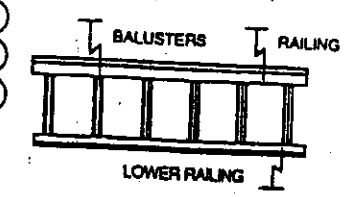
EXTERIOR ..... (OR)
ROOM # .....
WALL (A) (B) (C) (D)
LEFT ○
RIGHT ○
CENTER ○



EXTERIOR ..... (OR)
ROOM # .....
WALL (A) (B) (C) (D)
LEFT ○
RIGHT ○
CENTER ○



EXTERIOR ..... (OR)
ROOM # .....
WALL (A) (B) (C) (D)
LEFT ○
RIGHT ○
CENTER ○



EXTERIOR ..... (OR)
ROOM # .....
WALL (A) (B) (C) (D)
LEFT ○
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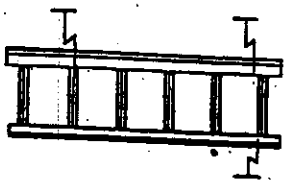
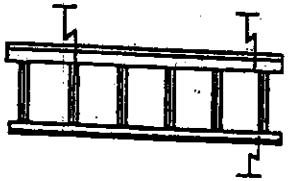
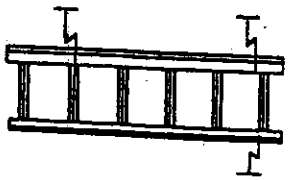
CENTER ○



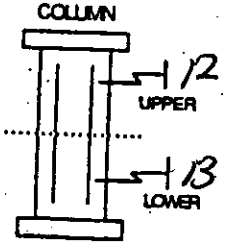
EXTERIOR ..... (OR)
ROOM # .....
WALL (A) (B) (C) (D)
LEFT ○
RIGHT ○
CENTER ○



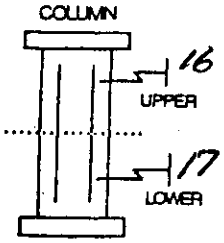
EXTERIOR ..... (OR)
ROOM # .....
WALL (A) (B) (C) (D)
LEFT ○
RIGHT ○
CENTER ○



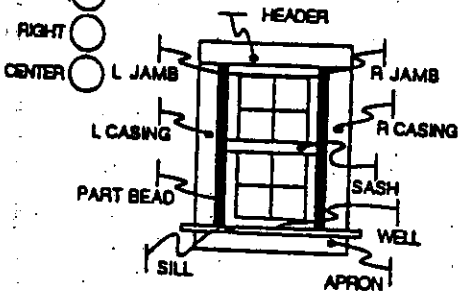
EXTERIOR ..... (OR) Interior
ROOM # .....
WALL (A) (B) (C) (D)
LEFT ○
RIGHT ○
CENTER ⊘



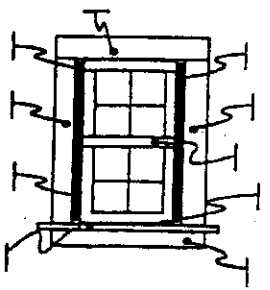
EXTERIOR Safty (OR)
ROOM # .....
WALL (A) (B) (C) (D)
LEFT ○
RIGHT ○
CENTER ○



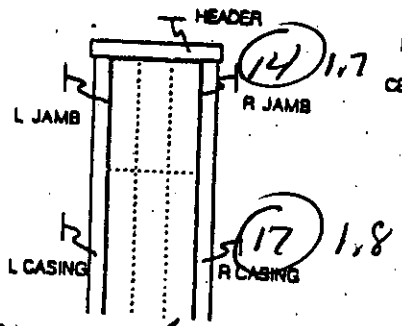
EXTERIOR ..... (OR)
ROOM # .....
WALL (A) (B) (C) (D)
LEFT ○
RIGHT ○
CENTER ○



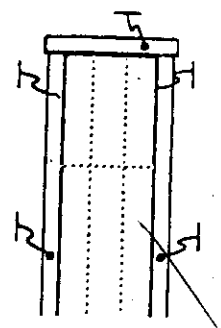
EXTERIOR ..... (OR)
ROOM # .....
WALL (A) (B) (C) (D)
LEFT ○
RIGHT ○
CENTER ○



EXTERIOR ..... (OR)
ROOM # .....
WALL (A) (B) (C) (D)
LEFT ○
RIGHT ○
CENTER ○



EXTERIOR ..... (OR)
ROOM # .....
WALL (A) (B) (C) (D)
LEFT ○
RIGHT ○
CENTER ○



COMMENTS: Interior Collumn is of metal and Grey finish, overhead door casings is of metal and white finish, Safty Collumn is of metal yellow finish

APPENDIX D

AccuStar Labs

Radon in Air

NEHA NRPP #101193 AL
NRSB #ARL0017

EPA Method #402-R-93-004 079
NEHA Device # 8205
NRSB Device # 12001

Laboratory Report For

International Training Institue Of South Florida
514 1st Avenue SW
Largo FL 33770

Property Tested

OHO37

Mansfield

Laboratory ID	Device Number	Area Tested	Test Start	Test End	Result pCi/L
566020	988376	Office	02/07/03	05/11/04	4.8
566021	988351	Office	02/07/03	05/11/04	4.7
566022	988334	D. Office	02/07/03	05/11/04	4.5
566023	988338	Training Seclection	02/07/03	05/11/04	4.2
566024	988320	Supply office	02/07/03	05/11/04	4.2
566025	118990	blank	02/07/03	05/11/04	< 0.4

Date Received: 6/11/2004 Date Analyzed: 6/21/2004 Date Reported: 6/21/2004

Report Reviewed By: _____

Disclaimer: The uncertainty of this radon measurement is ~+/- 15 %. Factors contributing to uncertainty include, statistical variations, daily and seasonal variations in radon concentrations, and operation of the dwelling. Interference with test conditions may influence the test results.

This report may only be transferred to a third party in its entirety. Results shown on this report represent levels of radon gas measured between the dates shown in the room or area of the site identified above as "Property Tested". Incorrect information will affect results. The results may not be construed as either predictive or supportive of measurements conducted in any area of this structure at any other time. AccuStar Labs, its employees and agents are not responsible for the consequences of any action taken or not taken based upon the results reported or any verbal or written interpretation of the results.

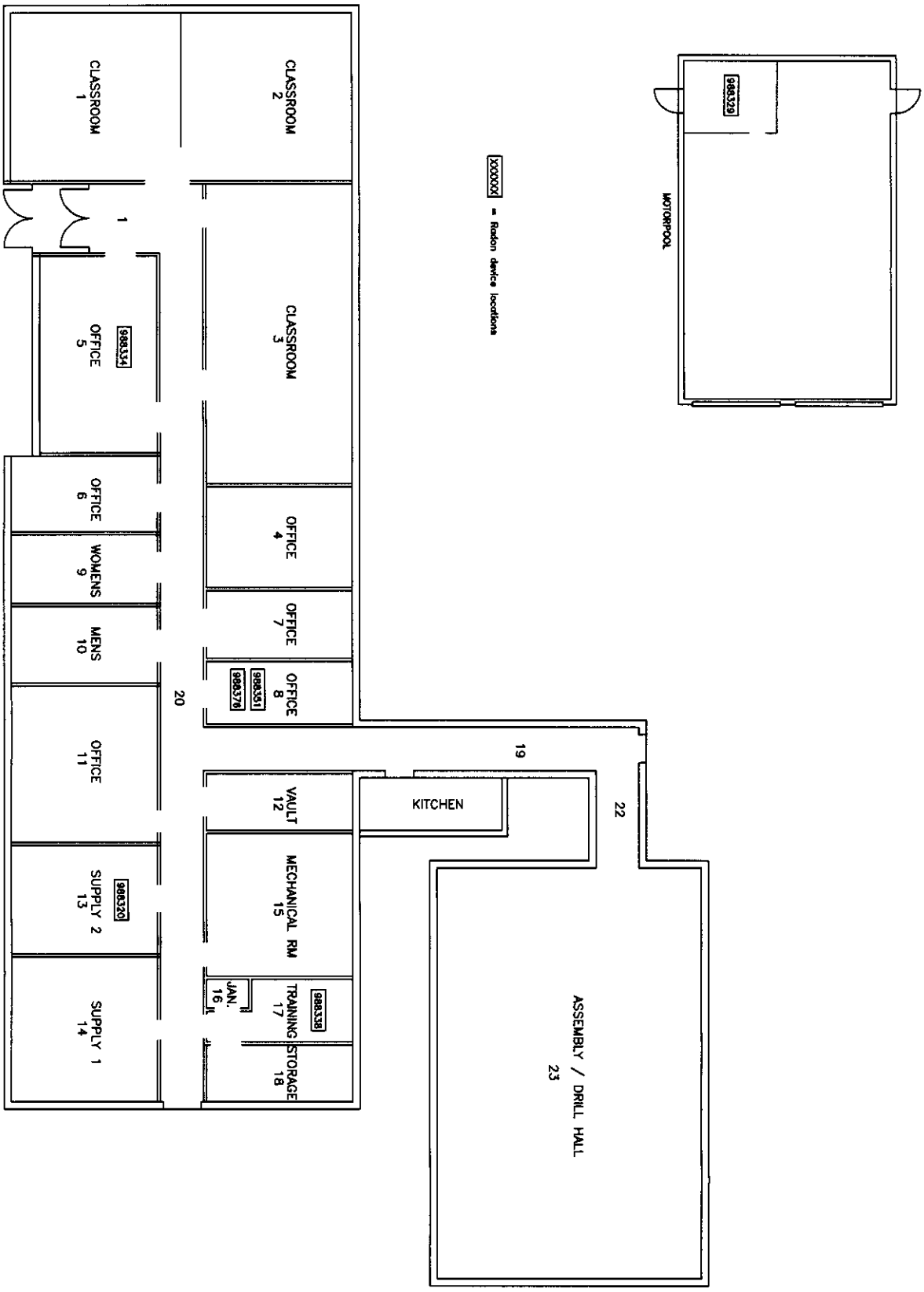
11 Awl Street Medway MA 02053 508-533-8812 fax 508-533-8831

AccuStar Alpha Track Field Data Sheet

OH087

Program _____ Report Address MANSFIELD Scoutin Recorded by _____ Page ____

Detector # Small Bar Code Label	Date Installed	Date Removed	Comments & Location (building, floor, room, etc.)
988375	2-7-03		RETENTION OFFICE.
988351			ADMIN. OFFICE
988334			TRAINING SECTION
988338			SUPPLY OFFICE
988320			MAINTENANCE OFFICE
988329			



100 2nd Ave S.
St Petersburg, Fl.
33701

USARC Mansfield
Building OH 037
Scouten

Radon Locations

SCALE: NTS

APPENDIX E

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

ISO/IEC 17025:1999
ISO 9002:1994

Certificate of Accreditation

DEPARTMENT OF COMMERCE * UNITED STATES OF AMERICA *

A.E.S.L. ENVIRONMENTAL LABORATORY
TEMPE, AZ

is recognized by the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria set forth in NIST Handbook 150:2001, all requirements of ISO/IEC 17025:1999, and relevant requirements of ISO 9002:1994. Accreditation is awarded for specific services, listed on the Scope of Accreditation, for:

BULK ASBESTOS FIBER ANALYSIS

March 31, 2005
Effective through

For the National Institute of Standards and Technology
NVLAP Lab Code: 200303-0

NVLAP-01C (08-01)

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

ISO/IEC 17025:1999
ISO 9002:1994

Certificate of Accreditation

A.E.S.L. ENVIRONMENTAL LABORATORY
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BULK ASBESTOS FIBER ANALYSIS

March 31, 2004
Effective through

For the National Institute of Standards and Technology
NVLAP Lab Code: 200303-0

NVLAP-01C (C)

APPENDIX F

OHIO DEPARTMENT OF HEALTH

246 North High Street
Post Office Box 118
Columbus, Ohio 43216-0118

Telephone: (614) 466-3543
www.odh.state.oh.us

BOB TAFT
Governor

J. NICK BAIRD, M.D.
Director of Health

January 29, 2003

ITI of South Florida
514 First Avenue, S. W.
Largo, FL 32606

ATTN: Narciso Martinez

RE: Evaluation Specialist Certification # 34253

Dear Narciso Martinez:

This letter is to inform you that you have been certified by this department as an Asbestos Hazard Evaluation Specialist.

Included with this letter is your identification card. Proof of certification must be available for review at any relevant project.

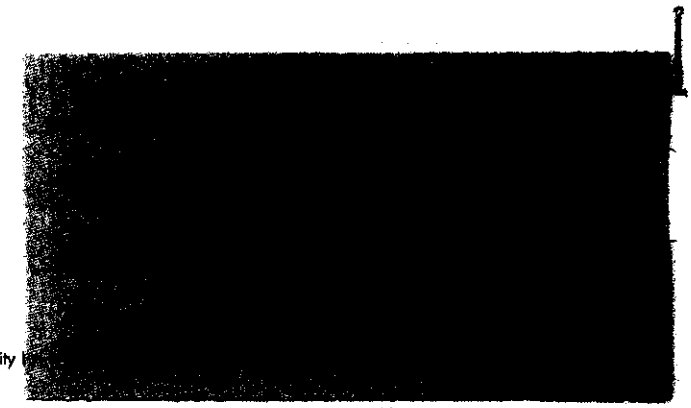
This certification may be revoked by the Director of Health for violation of any of the requirements of 3701-34 of the Ohio Administrative Code.

This certification will expire on JAN-27-2004.

If you have any questions regarding your identification card please call and speak with the asbestos licensing staff at (614)644-0226.

Sincerely,

Bridgette C. Smith
Licensure Administrator
Asbestos Program
Division of Quality Assurance



APPENDIX G

FT. KNOX ASBESTOS SURVEY REPORT
U. S. ARMY RESERVE CENTERS

Scouten USARC
Mansfield, Ohio

CONTENTS

Prepared by:

RMT INC.

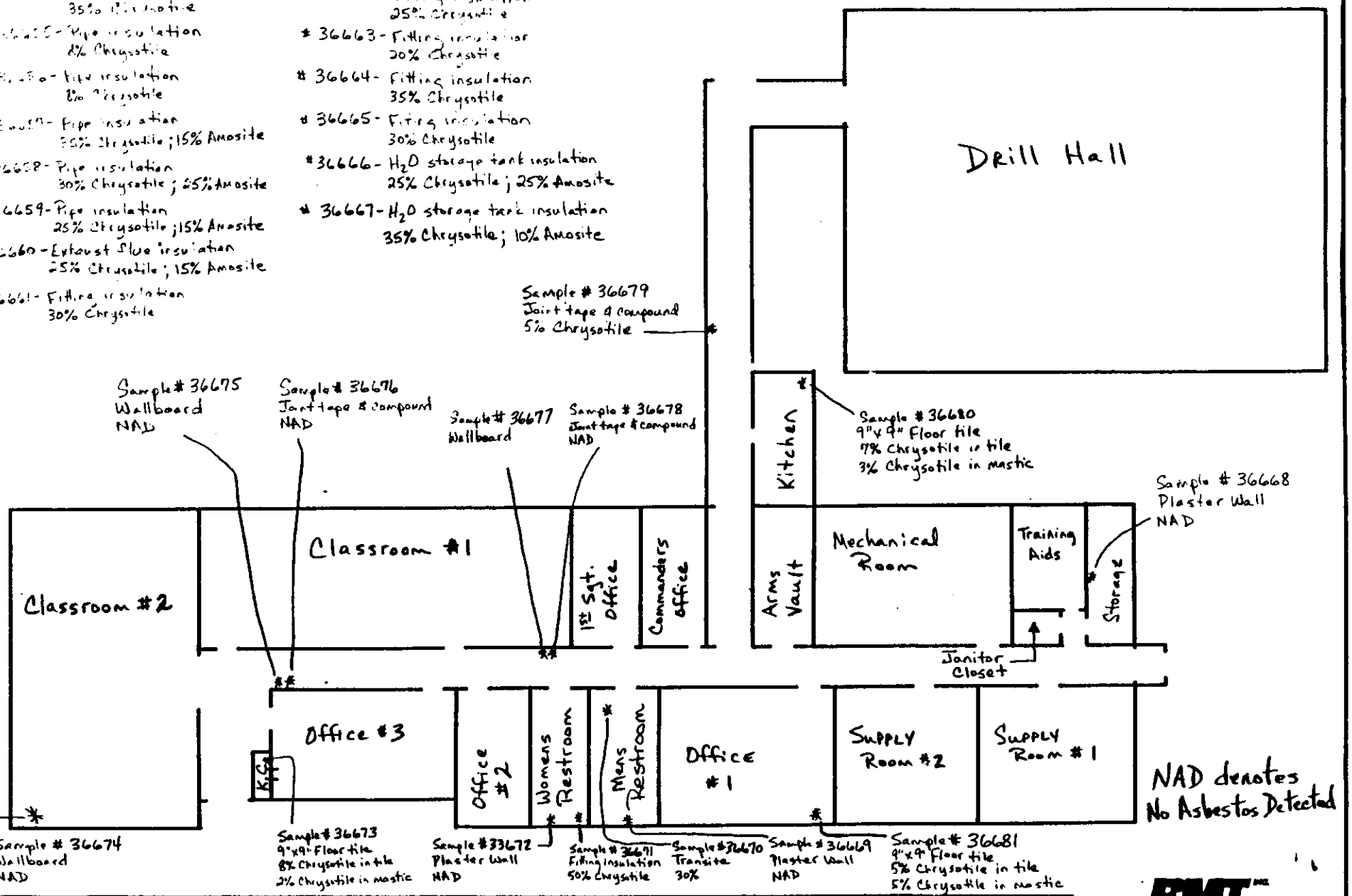
Activities that may disturb or render these materials friable should be prohibited. RMT recommends ACM be removed prior to major renovation or demolition projects that may potentially disturb these materials. An Interim Control, such as an Operation and Maintenance Program (O&M), should be developed and instituted for these materials. Such a program should include establishment of an information system for building occupants and maintenance personnel, including outside contractors, procedural requirements for handling and maintaining ACM in a non-friable state, and a periodic inspection schedule for reassessment. This program will allow the ACM to be properly managed until abatement is performed.

COST ESTIMATES FOR SCOUTEN USARC

ACM	Quantity	Abatement			Replacement			Total
		Labor Hours	Unit Cost	Total	Labor Hours	Unit Cost	Total	
Water storage tank insulation	112 SF	39	$17.50	$1,960	20	$11.75	$1,316	$3,276
Pipe insulation	1140 LF	228	$10.00	$11,400	114	$7.00	$7,980	$19,380
Fitting insulation	179 EA	72	$20.00	$3,580	36	$22.50	$4,028	$7,608
Exhaust flue mud	10 SF	10	$30.00	$300	5	$5.00	$50	$350
9" x 9" floor tile & associated mastic	4542 SF	182	$3.50	$15,897	91	$2.30	$10,447	$26,344
Transite partitions	230 SF	18	$8.00	$1,840	9	$2.00	$460	$2,300

Mechanical Room Samples:

- #36654 - Pipe insulation 35% Chrysotile
- #36655 - Pipe insulation 8% Chrysotile
- #36656 - Pipe insulation 8% Chrysotile
- #36657 - Pipe insulation 85% Chrysotile; 15% Amosite
- #36658 - Pipe insulation 30% Chrysotile; 25% Amosite
- #36659 - Pipe insulation 25% Chrysotile; 15% Amosite
- #36660 - Exhaust flue insulation 25% Chrysotile; 15% Amosite
- #36661 - Fitting insulation 30% Chrysotile
- #36662 - Fitting insulation 25% Chrysotile
- #36663 - Fitting insulation 20% Chrysotile
- #36664 - Fitting insulation 35% Chrysotile
- #36665 - Fitting insulation 30% Chrysotile
- #36666 - H_2O storage tank insulation 25% Chrysotile; 25% Amosite
- #36667 - H_2O storage tank insulation 35% Chrysotile; 10% Amosite



NAD denotes No Asbestos Detected

FACILITY: Scouten USARC - Mansfield, Ohio

PROJECT NO. 942.04

RMT

U. S. ARMY RE[illegible]IVE CENTERS
ASBESTOS SURVEY FIELD LOG

Percent of removal of pipes

Building Name: Scouten USARC

Building Site: Mansfield, Ohio

Date: 11-16-92

Building Usage Code: 9

FLOOR	AREA / ROOM #	HOMO AREA	TYPE	ASSESSMENT FRBL	ASSESSMENT ACC	ASSESSMENT COND	ASSESSMENT ACT	# OF OCCUP	DUR OF OCCUP	SAMPLE #	SAMPLE LOCATION	RESULTS	QUANTITY	COMMENTS
	Mechanical Room	01	A	L	H	G	L			#36654	Main cold water line - bottom right	35% Chrysotile	150 LF	(Corrugated paper) 01 - Pipe insulation
		01	A	L	H	G	L			#36655	Hot water line to registers	8% Chrysotile	see above	
		01	A	L	H	G	L			#36656	"	8% Chrysotile	see above	
		02	A	L	H	G	L			#36657	Above left pump on back wall	35% Chrysotile 15% Amosite	150 LF	(Block-type) 02 - Pipe insulation
		02	A	L	H	G	L			#36658	Behind hot water heater above	30% Chrysotile 25% Amosite	see above	
		02	A	L	H	G	L			#36659	Above control panels on rt. wall	25% Chrysotile 15% Amosite	See above	
		03	H	H	M	SD	L			36660	At back of boiler	25% Chrysotile 15% Amosite	10 SF	03 - Exhaust Flue insulation
		04	H	L	H	G	L			#36661	Below storage tank. left side	30% Chrysotile	30 ea.	04 - Fittings insulation on corrugated paper pipes
		04	H	L	H	G	L			#36662	On HW line right wall - in front of door	25% Chrysotile	See above	
		04	H	L	H	G	L			#36663	on HW line to registers rt above storage tank	20% Chrysotile	see above	
		05	H	L	H	G	L			#36664	Above left pump	35% Chrysotile	40 ea.	05 - Fitting insulation on block-type pipes
		05	H	L	H	G	L			#36665	Above H_2O storage tank	30% Chrysotile	see above	
		06	H	L	H	G	L			#36666	Front left side	25% Chrysotile 25% Amosite	112 SF	06 - Water storage tank insulation
		06	H	L	H	G	L			#36667	Left side	35% Chrysotile 10% Amosite	see above	
		07	K	L	M	G	L						513 SF	07 - Wall board
	↓	08	H	L	L	G	L							08 - Joint tape & non-printed

U. S. ARMY R.. ..RVE CENTERS
ASBESTOS SURVEY FIELD LOG

Building Name: Scouten USARC

Building Site: Mansfield, Ohio

Date: 11-17-92

Building Usage Code: 9

FLOOR	AREA / ROOM #	HOMO AREA	TYPE	ASSESSMENT FRBL	ACC	COND	ACT	# OF OCCUP	DUR OF OCCUP	SAMPLE #	SAMPLE LOCATION	RESULTS	QUANTITY	COMMENTS
	Supply #1 Room	02	A	L	H	G	M						90 LF	
	↓	05	H	L	H	G	M						12 ea.	
		07	K	L	H	G	L						550 SF	(Ceiling & one wall)
	↓	08	H	L	L	G	L							
	Supply Room #2	02	A	L	H	G	M						45 LF	
	↓	05	H	L	H	G	M						6 ea.	
		07	K	L	H	G	L						665 SF	(Ceiling & two walls)
		08	H	L	L	G	L							
		01	A	L	H	G	M						8 LF	
	↓	04	H	L	H	G	M						2 ea.	
	Office #1	01	A	L	H	G	M						47 LF	
	↓	04	H	L	H	G	M						1 ea.	
		02	A	L	H	G	M						65 LF	
		05	H	L	H	G	M						10 ea.	
		07	K	L	H	G	L						590 SF	(ceiling & one wall)
		08	H	L	L	G	L							
	↓	09	C	L	H	G	H			#36681	Left back corner	5% Chry. in tile 5% Chry. in mastic	440 SF	

U. S. ARMY F RVE CENTERS
ASBESTOS SURVEY FIELD LOG

Building Name: Scouter USARC

Building Site: Mansfield, Ohio

Date: 11-17-92

Building Usage Code: 9

FLOOR	AREA / ROOM #	HOMO AREA	TYPE	ASSESSMENT FRBL	ACC	COND	ACT	# OF OCCUP	DUR OF OCCUP	SAMPLE #	SAMPLE LOCATION	RESULTS	QUANTITY	COMMENTS
	Womens restroom	05	H	L	H	G	M			#36671	Above heat register	50% Chrysotile	5ea.	
	Office #2	02	A	L	H	G	M						45LF	
	↓	05	H	L	H	G	M						11ea.	
		07	K	L	M	G	L						190SF	Ceiling only
		08	H	L	L	G	L							
	↓	09	C	L	H	G	H						190SF	
	office #3	02	A	L	H	G	M						70LF	
	↓	05	H	L	H	G	M						8ea.	
		07	K	L	M	G	L						400SF	Ceiling only
		08	H	L	L	G	L							
	↓	09	C	L	H	G	H						400SF	
	Classroom #1	02	A	L	H	G	M						35LF	
	↓	07	K	L	M	G	L						950SF	Ceiling only
		08	H	L	L	G	L							
	↓	09	C	L	H	G	H						950SF	
	Key closet	01	A	L	H	G	M						6LF	
	↓ (cont.)	04	H	L	H	G	M						2ea.	

U. S. ARMY R[illegible]RVE CENTERS
ASBESTOS SURVEY FIELD LOG

Building Name: Scouten USARC

Building Site: Pinefield, Ohio

Date: 11-17-92

Building Usage Code: 9

FLOOR	AREA / ROOM #	HOMO AREA	TYPE	ASSESSMENT FRBL	ACC	COND	ACT	# OF OCCUP	DUR OF OCCUP	SAMPLE #	SAMPLE LOCATION	RESULTS	QUANTITY	COMMENTS
	Corridors	08	H	L	L	G	L			#36679	Middle of hall to drill hall	5% Chrysotile		
	Kitchen	07	K	L	M	G	L						160SF	
	↓	08	H	L	L	G	L							
	↓	09	C	L	H	G	H			#36680	Back left corner	7% Chry. in tile 3% Chry. in mastic	160SF	(9"x9" rust tile only)
	↓	01	A	L	H	G	M						9LF	
	↓	02	A	L	H	G	M						6LF	
	Arms Room	07	K	L	M	G	L						152SF	
	↓	08	H	L	L	G	L							
	Drill Hall	All No[illegible] materials		-	[illegible]						[illegible] (fiberglass)	[illegible]		Drill hall burned in 1990 - rebuilt
	Maintenance Shop													
	↓									#36682	Back wall beside concrete storage room	65% Chrysotile	85LF	Pipe runs across ceiling & down back wall - other pipes are fiberg[illegible]
	↓									#36683		30% Chrysotile	4ea?	Fiberglass fittings not accessible
	New roof install 2-3 yrs. ago - no access													

Hygeia Environmental Laboratories Inc.

Cobb Corporate Center
350 Franklin Road/300
Marietta, Georgia
30067-7749
404-425-9901
FAX: 404-424-0185

Atlanta
Boston
Los Angeles
New York

PLM Analysis Summary

HEL Project Number: A005-93-024
Client Project ID: 942.04 Scouten USARC

Sample ID		Asbestos Percent					Other Fibers		Non-Fibers		
Client	HEL	Ch.	Am.	Cr.	An.	T/A	Cell.	Glass	Per.	Ver.	Binder
36654	67261-A	35%					10%				55%
Comments: .											
36655	67262-A	8%					50%				42%
Comments: .											
36656	67263-A	8%					65%				27%
Comments: .											
36657	67264-A	35%	15%				5%				45%
Comments: .											
36658	67265-A	30%	25%				5%				40%
Comments: .											
36659	67266-A	25%	15%				10%				50%
Comments: .											
36660	67267-A	25%	15%				5%				55%
Comments: .											
36661	67268-A	30%						10%			60%
Comments: .											
36662	67269-A	25%					20%				65%
Comments: .											
36663	67270-A	20%						40%			40%
Comments: .											
36664	67271-A	35%					5%	10%			50%
Comments: .											
36665	67272-A	30%					10%	10%			50%
Comments: .											

Hygeia Environmental Laboratories Inc.

Cobb Corporate Center
350 Franklin Road/300
Marietta, Georgia
30067-7749
404-425-9901
FAX: 404-424-0185

Atlanta
Boston
Los Angeles
New York

PLM Analysis Summary

HEL Project Number: A005-93-024
Client Project ID: 942.04 Scouten USARC

Sample ID		Asbestos Percent					Other Fibers		Non-Fibers		
Client	HEL	Ch.	Am.	Cr.	An.	T/A	Cell.	Glass	Per.	Ver.	Binder
36678	67285-A						10%				90%
Comments:	No Asbestos Detected										
36679	67286-A	5%					15%				80%
Comments:	.										
36680	67287-A	7%									93%
Comments:	7% chrysotile in tile, 3% in mastic.										
36681	67288-A	5%									95%
Comments:	5% chrysotile in tile, 5% in mastic.										
36682	67289-A	65%									35%
Comments:	.										
36683	67290-A	30%					10%	5%			65%
Comments:	.										

	Mansfield, Ohio SSG Roy Clifton Scouten USARC
Identification Information:	Identification Number: OH037/39895 SSG Roy Clifton Scouten USARC 271 Hedges St., Mansfield, Richland County, Ohio 44903-2697 Telephone Number: (419) 525-1893 Mansfield North Quadrangle, Ohio, USGS 7.5 Minute Series, T21N R18W Section 22 (Figure 364) UTM: Z17, 372641E, 4512148N Present Owner/Occupant: The facility is owned by the United States Government and controlled by the 88th RSC.
Setting and Landscape:	The SSG Roy Clifton Scouten USARC consists of two buildings located on 3.5 acres of land (MN009) in a commercial and residential district of Mansfield, Ohio (Figure 365).[1] The facility is landscaped with grass, trees, and shrubs.
Archaeological Resources:	An archaeological records search at the Ohio State Historic Preservation Office determined that there are no known archaeological sites located within a one-mile radius of the SSG Roy Clifton Scouten USARC.
Historical Information:	The SSG Roy Clifton Scouten USARC was constructed in 1958.[2] There appear to have been no significant additions or alterations to the buildings since their original construction.
Security:	Security measures at the SSG Roy Clifton Scouten USARC include chain-link fencing topped with barbed wire surrounding a military vehicle parking area, the north, east and west sides of the Organizational Maintenance Shop, and a section of the east wall of the Reserve Center's drill hall. High intensity lighting is also present to illuminate the military and civilian parking areas.

Architectural Information:	The SSG Roy Clifton Scouten USARC consists of two concrete block buildings with red brick veneers. The buildings do not appear to exhibit historical or architectural character or merit that significantly contributes to the historic context of the period associated with their construction.
Building Descriptions:	**Reserve Center** (MN001) The Reserve Center functions as an administrative and drill facility for the SSG Roy Clifton Scouten USARC. Constructed in 1958[3], it is a multiple-level irregular shaped building consisting of a one-story administration section and a two-story drill hall connected by a one-story, L-shaped enclosed corridor. The structure rests upon a concrete foundation with concrete block walls and a red brick veneer. A pair of metal pedestrian doors with single light fixed windows and three one-over-one double-hung windows with plain slip sills are recessed into the west side of the building (Figures 366 & 367). Additional entrances include single and paired metal pedestrian doors on the south and east walls. A metal overhead retractable bay door is located on the east wall (Figure 368). Fenestrations include a series of one-over-one light double-hung windows with plain slip sills and two light sliding double-hung windows with plain slip sills around the perimeter of the building (Figure 369). A series of one-over-one light fixed and awning ribbon windows with continuous plain slip concrete sills are located on the east side of the drill hall near the roof eaves. Two metal vents are located within the brick veneer on the southeast corner of the building. A flat roof covers the structure (Figure 370). **Organizational Maintenance Shop** (MN011) The Organizational Maintenance Shop functions as a vehicle maintenance facility for the SSG Roy Clifton Scouten USARC. Constructed in 1958[4], it is a one-story rectangular building that rests upon a concrete foundation with concrete block walls and a brick veneer. Two metal overhead retractable bay doors are located on north side of the building (Figure 371). Additional entrances include metal pedestrian with concrete steps are located on the east and west walls (Figures 372 & 373). Fenestrations include a pair of one-over-one light fixed and awning ribbon windows with continuous plain slip concrete sills along the south wall near the roof eaves (Figure 374). A flat roof covers the structure. A concrete ramp is located northeast of the Organization Maintenance Shop and is used for vehicle maintenance activities undertaken at the facility (Figures 375 & 376).

Eligibility:	None of the buildings located at the SSG Roy Clifton Scouten USARC meet the criteria for the National Register of Historic Places (NRHP), under Criterion A, B, C, or D, and thus are not recommended for nomination to the NRHP. A historic documentary and architectural investigation conducted at the facility determined there is no direct relationship between the facility and prehistoric or historic events in the Mansfield area (criterion A), there is no association with significant persons involved in prehistoric or historic events (criterion B), buildings on the facility are not architecturally or technologically significant (criterion C), and the facility is unlikely to hold future research potential (criterion D).
Recommendations:	No additional review under Section 110 is recommended until the existing buildings at the SSG Roy Clifton Scouten USARC reach the 50 year eligibility requirement for the NRHP in 2008, or unless specific undertakings require compliance with Section 106 of the National Historic Preservation Act (36 CFR 800).
Sources:	"Dedication Plaque: SSG Roy Clifton Scouten USARC 1958." SSG Roy Clifton Scouten USARC, Mansfield, Ohio.[5] "Environmental Assessment for Construction of a New Reserve Center at Mansfield, Ohio." 83rd RSC Engineering and Housing Division, Fort Knox, Kentucky. July 1986. "Environmental Audit of Scouten U.S. Army Reserve Center." Lexington, Kentucky: Howard K. Bell, Consulting Engineers, Inc. 1991. "Mansfield North Quadrangle." USGS 7.5 Minute Series. Denver, Colorado: United States Geological Survey. 1961, photorevised 1982, photoinspected 1984. "Real Property Detail report Criteria: Total Inventory." 88th RSC DSCEN Real Estate Division. March 1998.
Notes:	[1] "Environmental Assessment for Construction of a New Reserve Center at Mansfield, Ohio," Fort Knox Engineering and Housing Division, Fort Knox, Kentucky, July 1986, p. 2, and "Real Property Detail report Criteria: Total Inventory," 88th RSC DSCEN Real Estate Division, March 1998, p. 24. A construction proposal by members of the Fort Knox Engineering and Housing Division state that 3.55 acres of land are associated with the SSG Roy Clifton Scouten USARC. However, records maintained by the 88th RSC DSCEN Real Estate Division state that 3 acres of land are

associated with the SSG Roy Clifton Scouten USARC. Fort McCoy Archaeology Laboratory investigators theorize that that size of the parcel of land at the facility is most likely 3.55 acres. Copies of the above reports are on file at the 88th RSC DSCEN Real Estate Division, Fort Snelling, Minnesota.

[2] "Dedication Plaque," SSG Roy Clifton Scouten USARC, 1958. The dedication plaque located in the foyer of the Reserve Center on the SSG Roy Clifton Scouten USARC states the facility was dedicated to the memory of SSG Roy Scouten in 1958. Fort McCoy Archaeology Laboratory investigators theorize that the buildings at the facility were completed the same year as the dedication.

[3] Ibid.

[4] Ibid.

[5] The "Dedication Plaque" is located on the interior wall of the Reserve Center foyer at the SSG Roy Clifton Scouten USARC.

Mansfield North Quadrangle and Mansfield South Quadrangle, USGS 7.5 Minute Series

Figure 364. Location of the SSG Roy Clifton Scouten USARC.

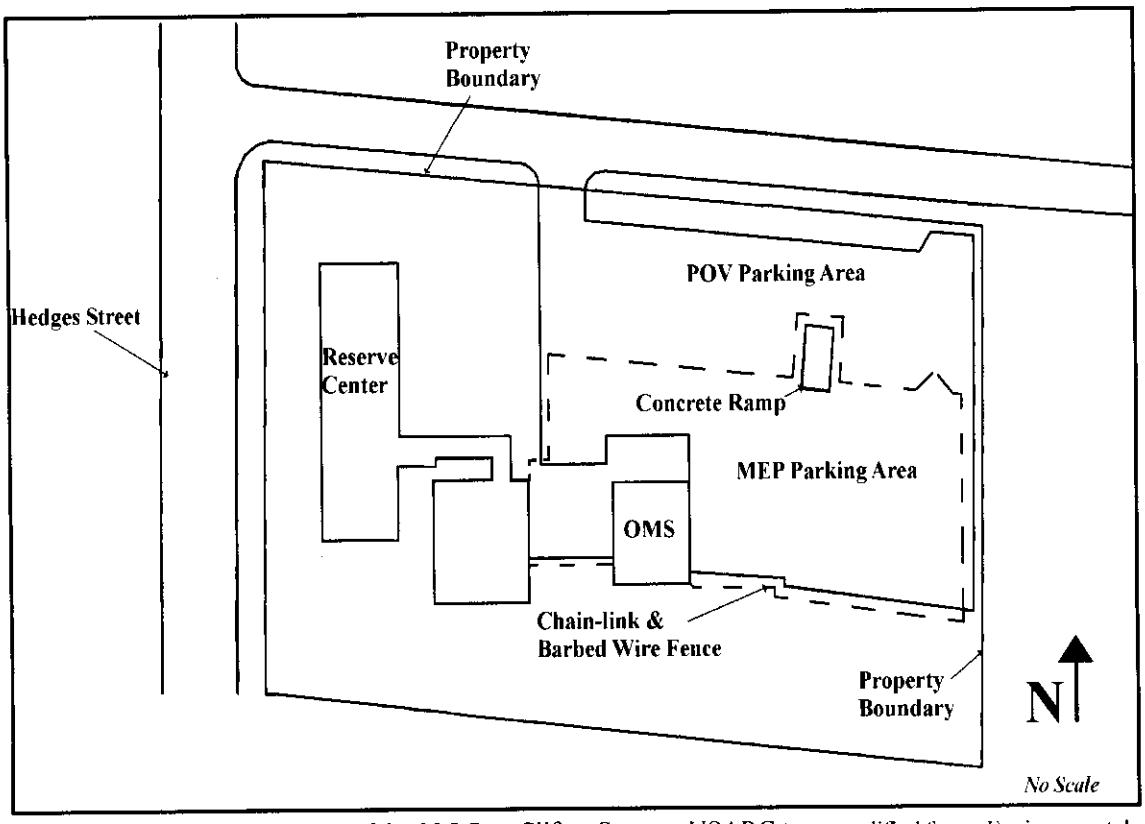


Figure 365. Map of the SSG Roy Clifton Scouten USARC (map modified from "Environmental Audit of Scouten U.S. Army Reserve Center," Howard K. Bell, Consulting Engineers, Inc., Attachment No. 1).

Figure 366. SSG Roy Clifton Scouten USARC Reserve Center, facing northeast.

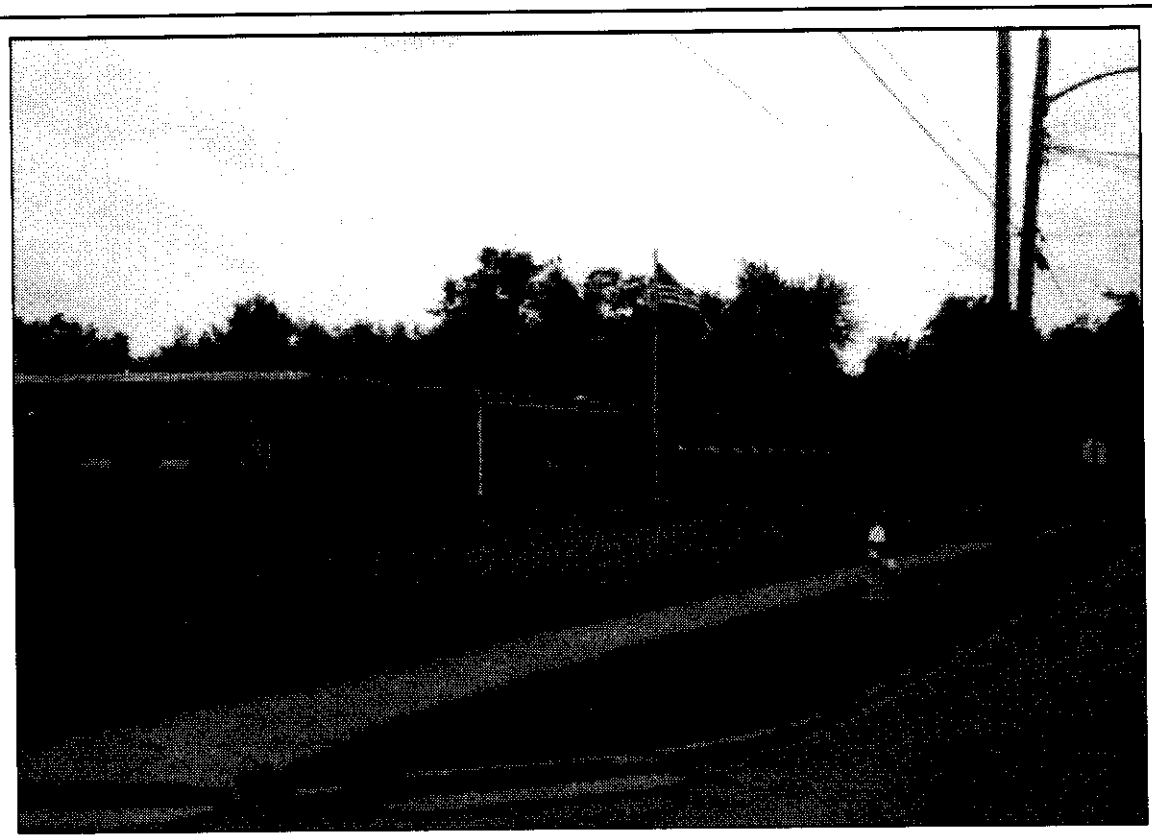


Figure 367. SSG Roy Clifton Scouten USARC Reserve Center, facing southeast.

Figure 368. SSG Roy Clifton Scouten USARC Reserve Center, facing southwest (drill hall).

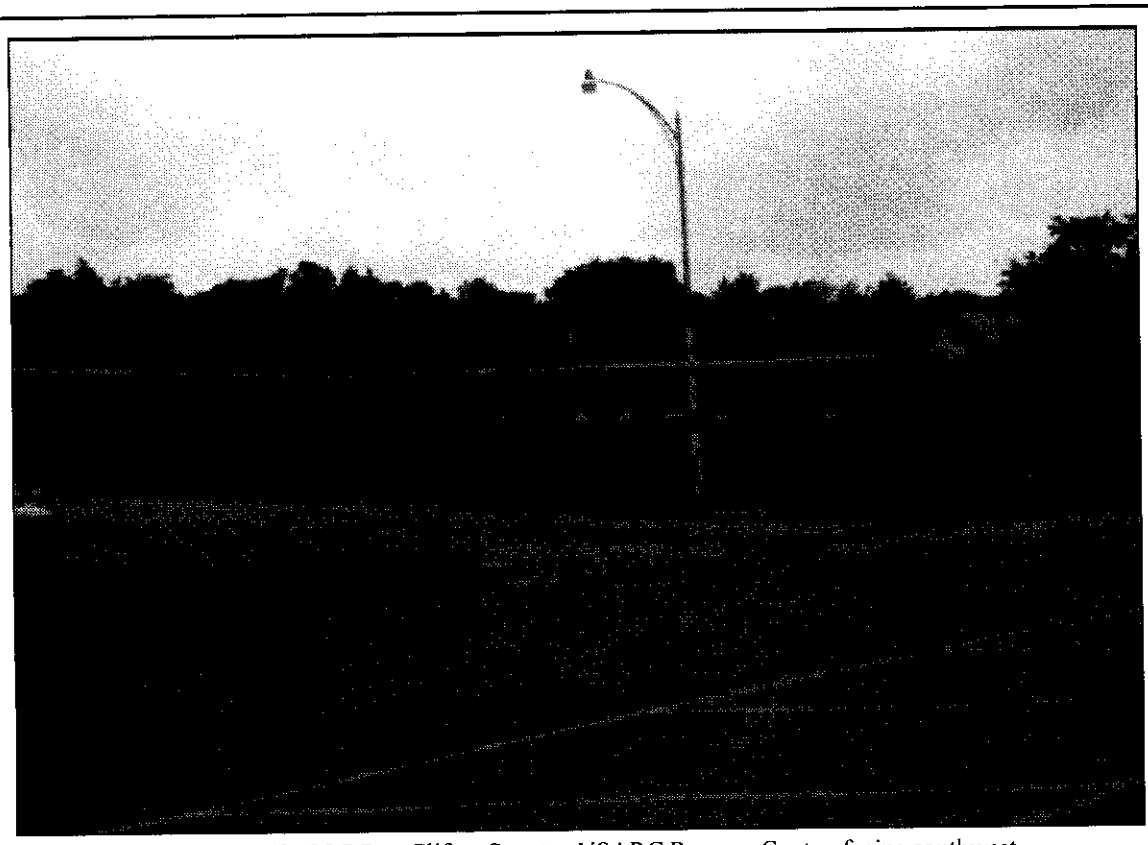


Figure 369. SSG Roy Clifton Scouten USARC Reserve Center, facing southwest.

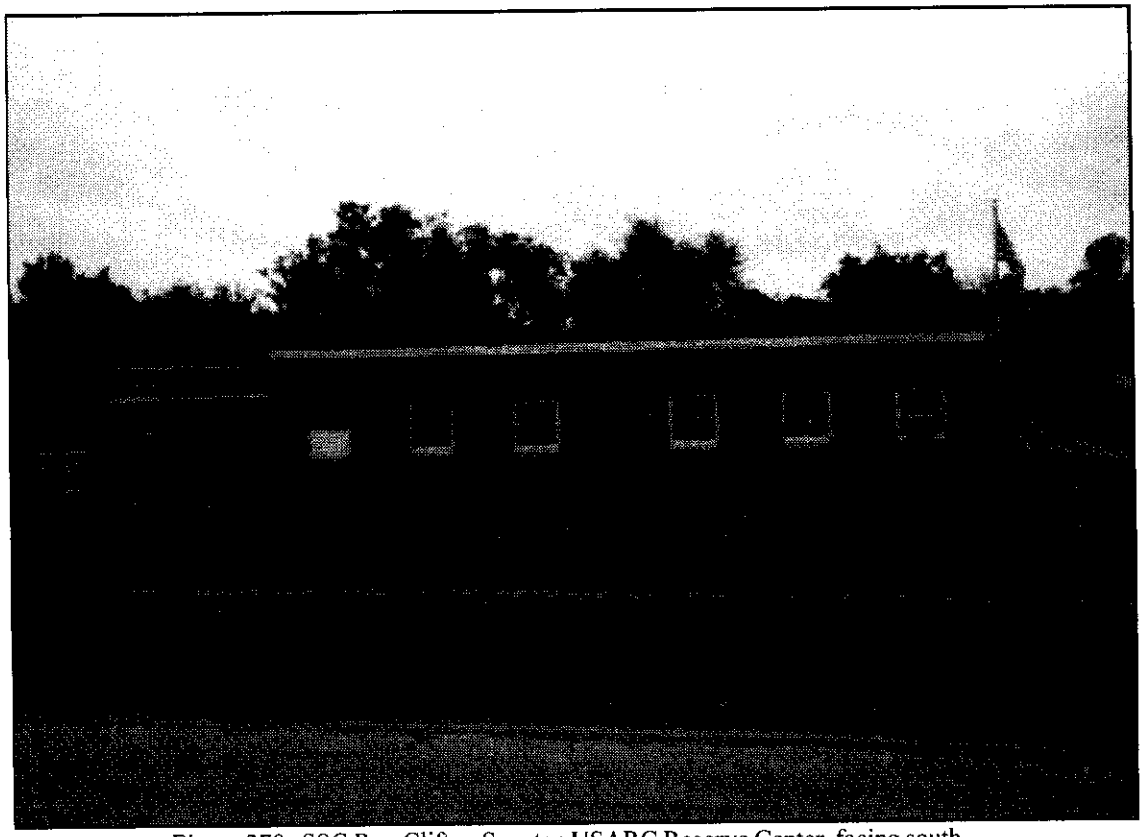


Figure 370. SSG Roy Clifton Scouten USARC Reserve Center, facing south.

Figure 371. SSG Roy Clifton Scouten USARC Organizational Maintenance Shop, facing southwest.

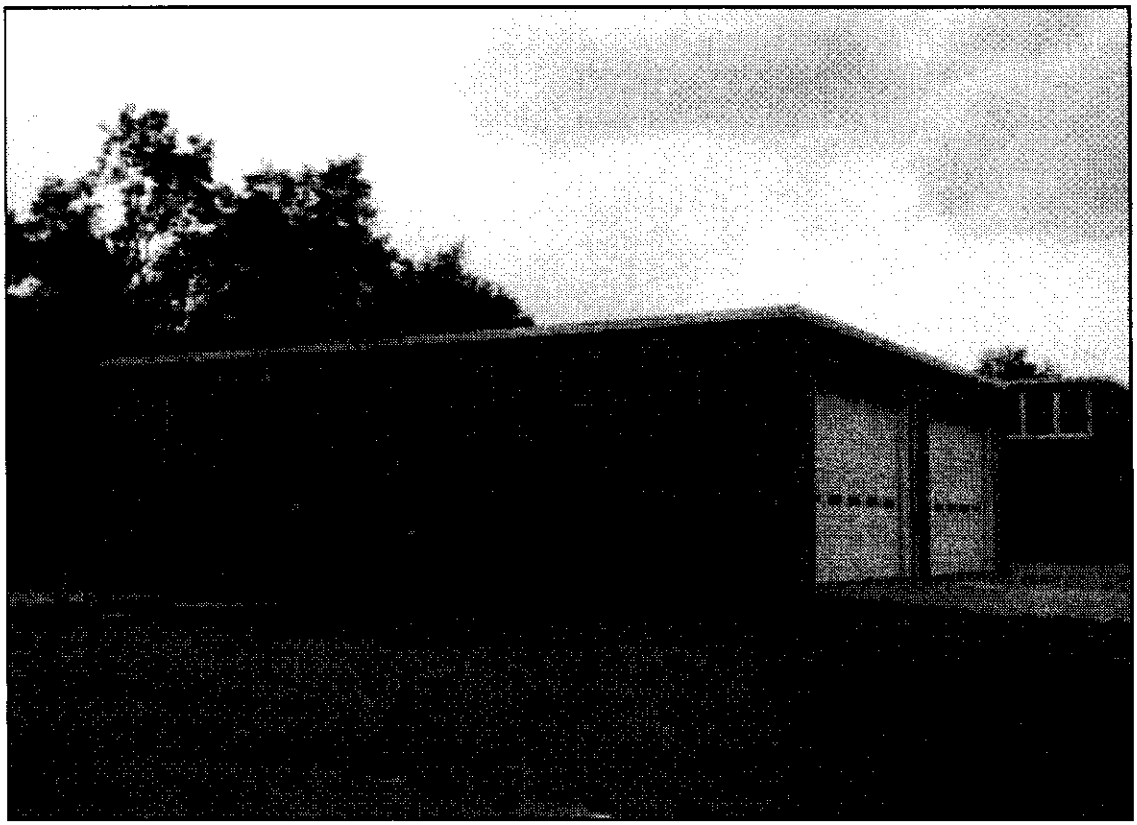


Figure 372. SSG Roy Clifton Scouten USARC Organizational Maintenance Shop, facing southwest.

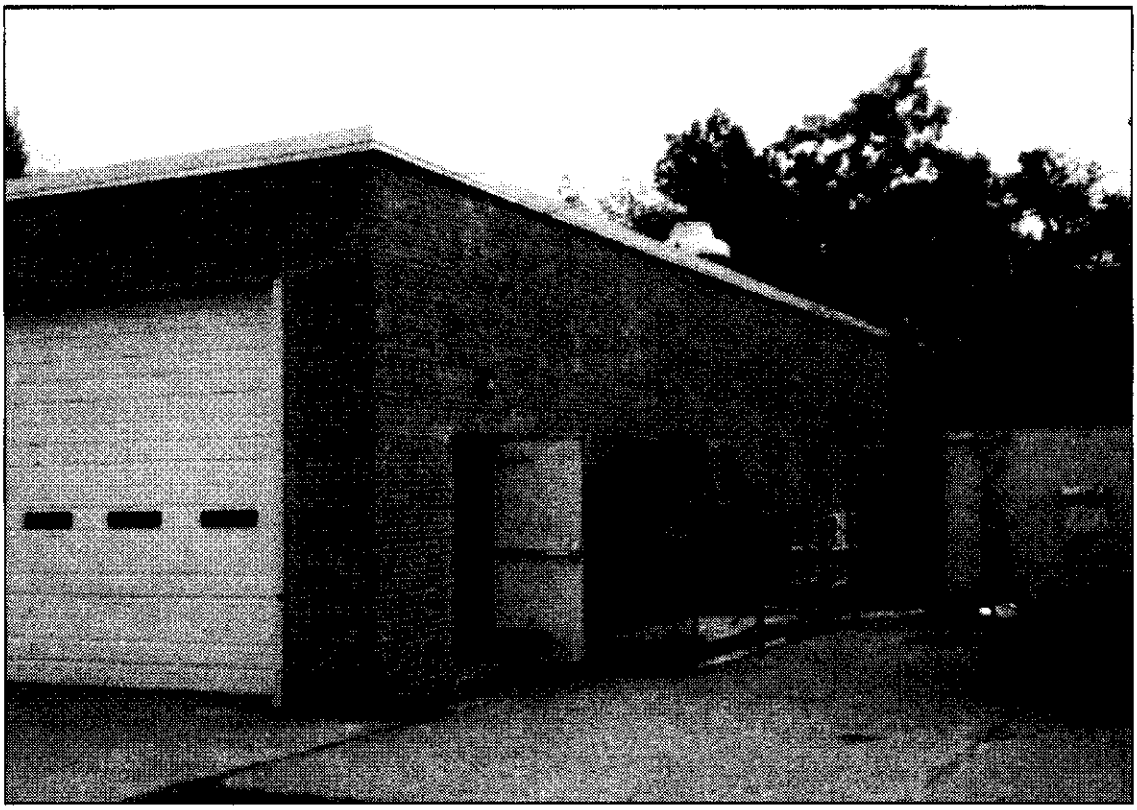


Figure 373. SSG Roy Clifton Scouten USARC Organizational Maintenance Shop, facing southeast.

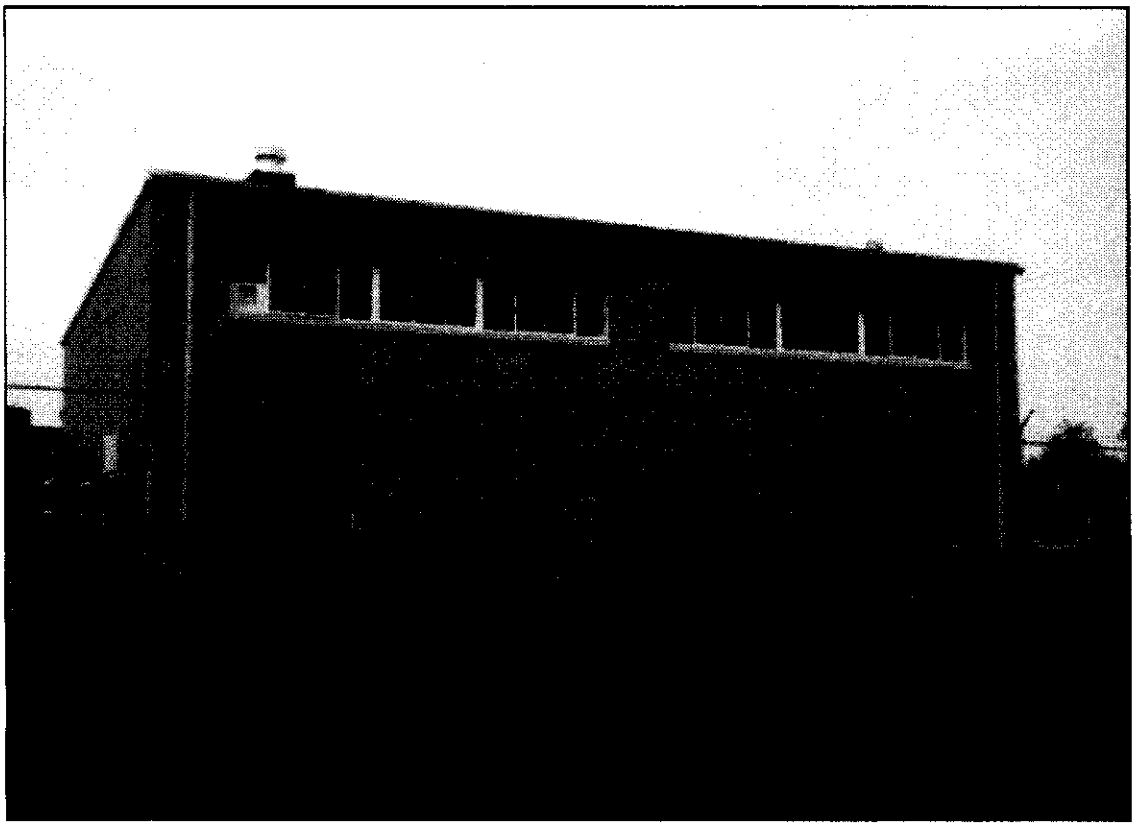


Figure 374. SSG Roy Clifton Scouten USARC Organizational Maintenance Shop, facing north.

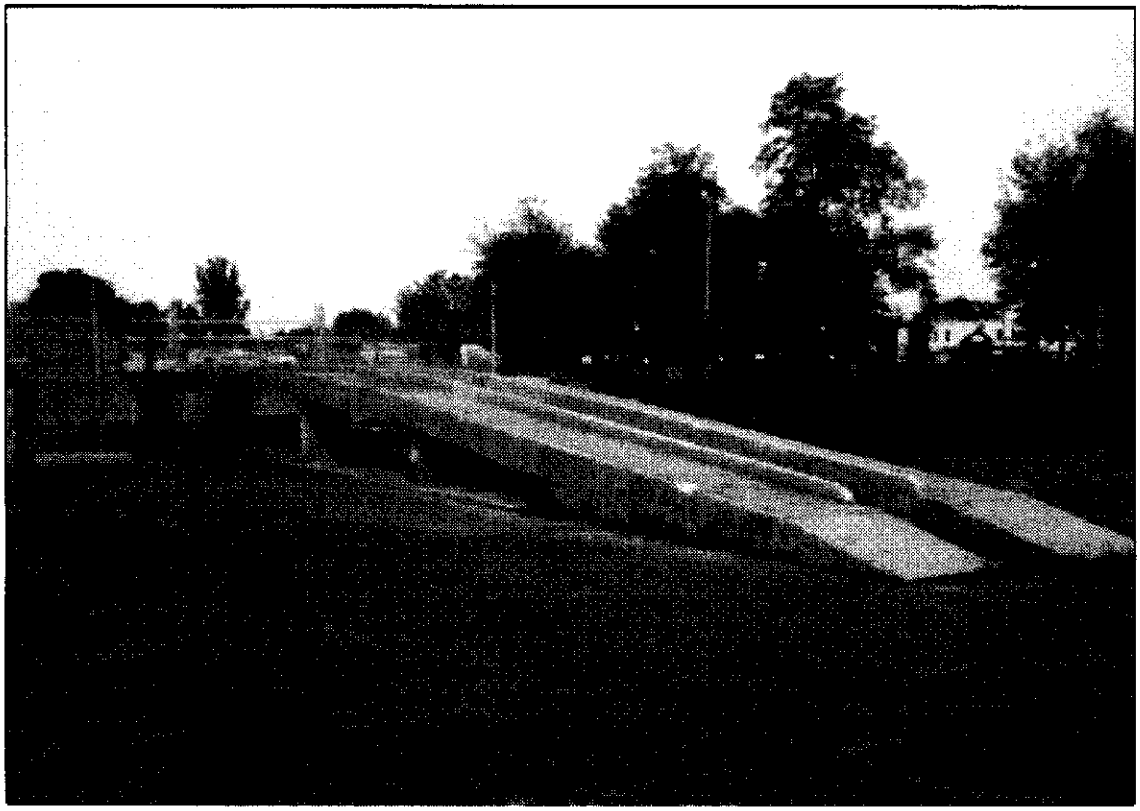


Figure 375. SSG Roy Clifton Scouten USARC Concrete Ramp, facing northeast.

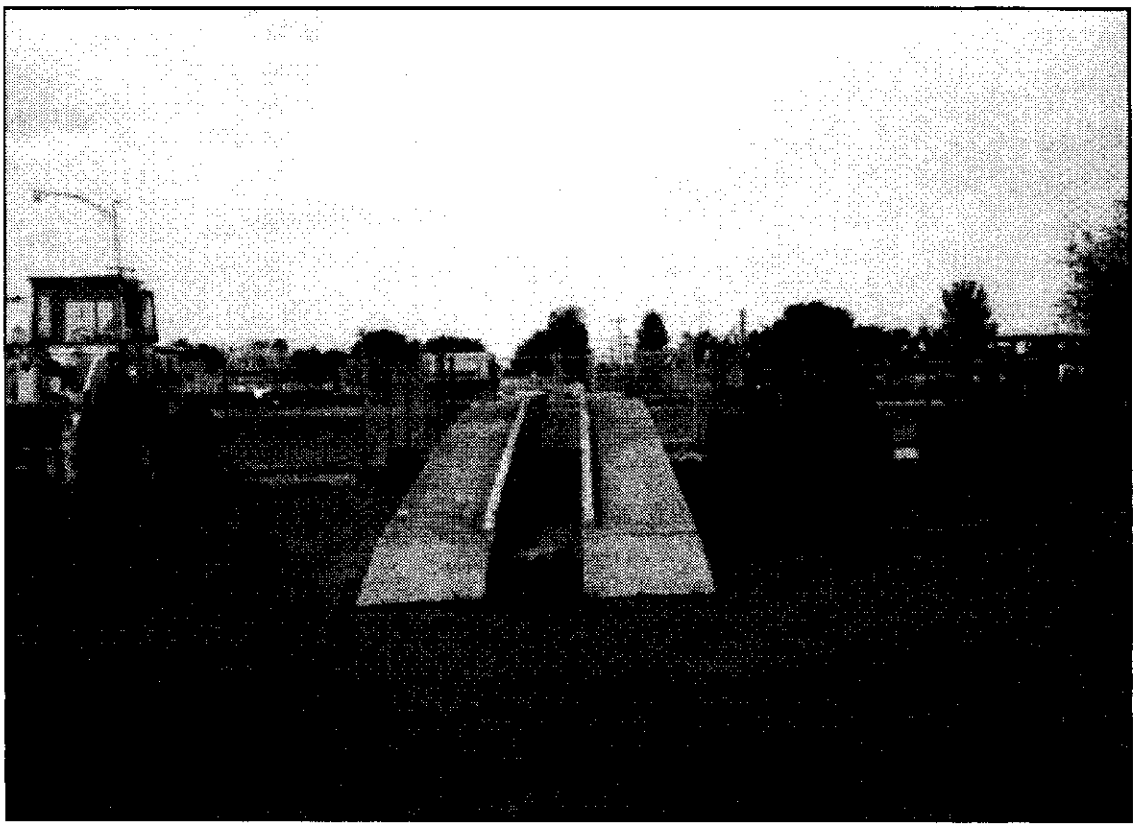
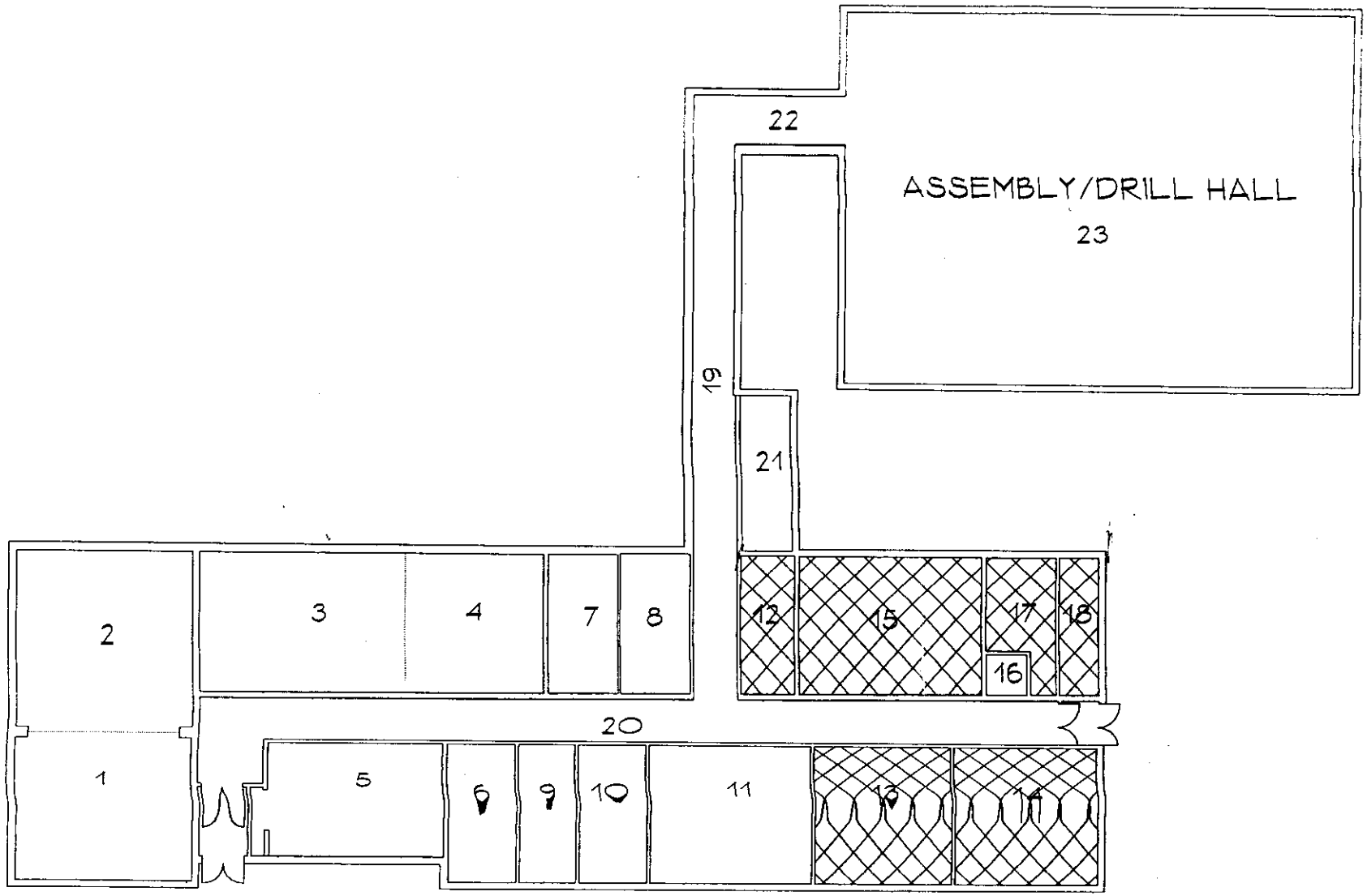


Figure 376. SSG Roy Clifton Scouten USARC Concrete Ramp, facing north.

ROOM SCHEDULE
USARC
MANSFIELD, OH

Rm No.	Designation,Ocupation	Area Sq.Ft.	Flooring
1	Class Room #1	577	Tile
2	Class Room #2	577	Tile
3	Class Room #3	565	Tile
4	Operations Room	390	Tile
5	Admin. Office	396	Carpet
6	Supply Office	191	Carpet
7	First Sgt. Office	196	Carpet
8	Commandor's	202	Carpet
9	Female Latrine	153	Tile
10	Male Latrine	186	Tile
11	Publication Room	449	Tile
12	Arms Room	NIC	Concrete
13	NBC/Commo Off/Stor	NIC	Concrete
14	Food Serv. Off./Stor.	NIC	Concrete
15	Furnace Room	NIC	Concrete
16	Janitor Closet	32	Tile
17	Center Storage	NIC	Tile
18	Center Storage	NIC	Tile
19	Hallway N/S Run	542	Tile
20	Hallway E/W Run	1152	Tile
21	Family Support Room	150	Tile
22	Hallway Drillhall Entry	102	Tile
23	Drill Hall	1938	Concrete
	TOTAL	7798	

NIC = NOT IN CONTRACT



NO CUSTODIAL REQUIRED

NORTH

CUSTODIAL SERVICE
SCOUTEN USARC
271 HEDGES STREET
MANSFIELD, OH
18 DEC 97

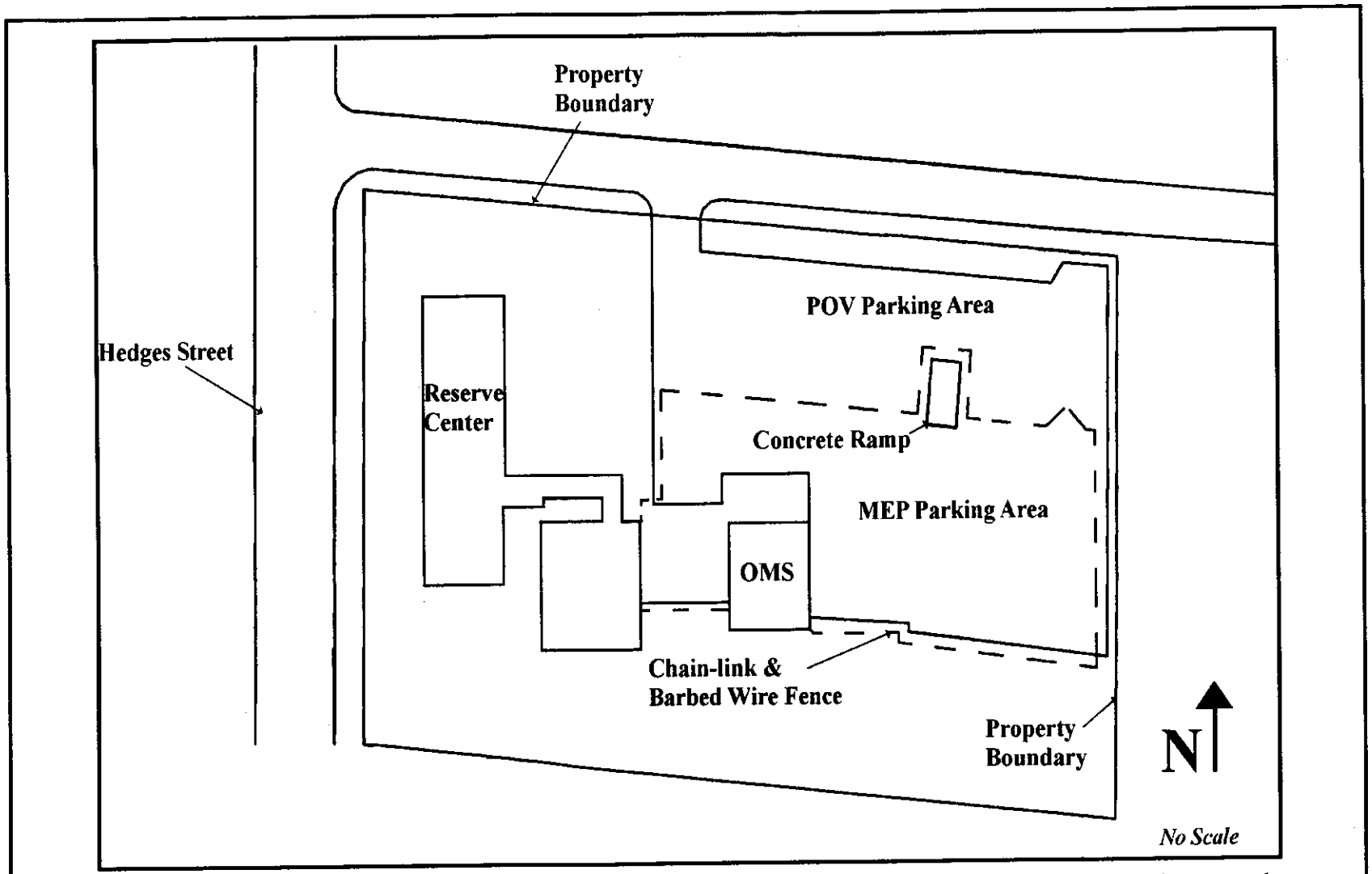


Figure 365. Map of the SSG Roy Clifton Scouten USARC (map modified from "Environmental Audit of Scouten U.S. Army Reserve Center," Howard K. Bell, Consulting Engineers. Inc., Attachment No. 1)

Facility Details

Facility ID	70002643
Facility Name	556 ROY CLIFTON SCOUTEN USARC
Address	271 HEDGES ST
City	MANSFIELD
Zip	44903
County	Richland
Type	Federal-Military
24 HR Emergency Contact	
24 HR Emergency Phone	
Number of Tanks on Site	
Local Fire Dept	Mansfield Fire Department
Delegated Authority	No
Eligible for Green Buckeye Award	N/A
Active Release Site	No

Owner Details

Owner ID	W010597
Owner Name	UNITED STATES ARMY RESERVE
Address	450 PENNSYLVANIA AVE
City	DELAWARE
State	OH
Zip	43015
Phone	(614) 369-3264

Tank Information

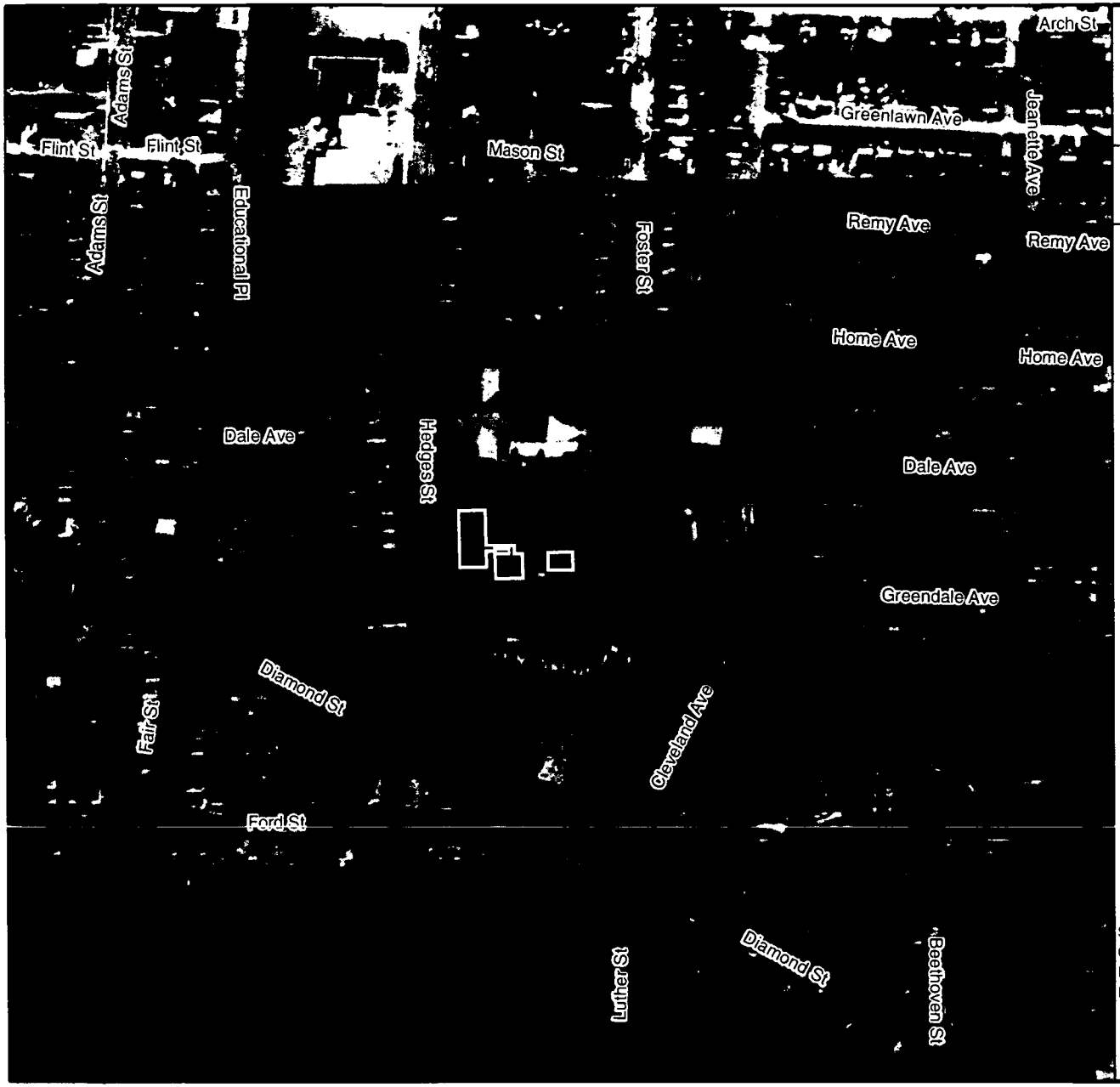
Tank ID	Tank Type	Capacity	Content	Status
T00001	Steel	500	Used Oil	REM-Removed

Permit Information

Permit ID	Permit Status	Issue Date	LFD Permit ID
P00001	Closed	11/23/1998	08175

Inspection Information

Inspection ID	Permit Number	Inspection Date	Code	Type



OH037 Facility Map
SSG Roy Clifton Scouten USARC

88th Regional Readiness Command
Mansfield, Ohio
Richland County

Legend

Buildings

Facility Boundary

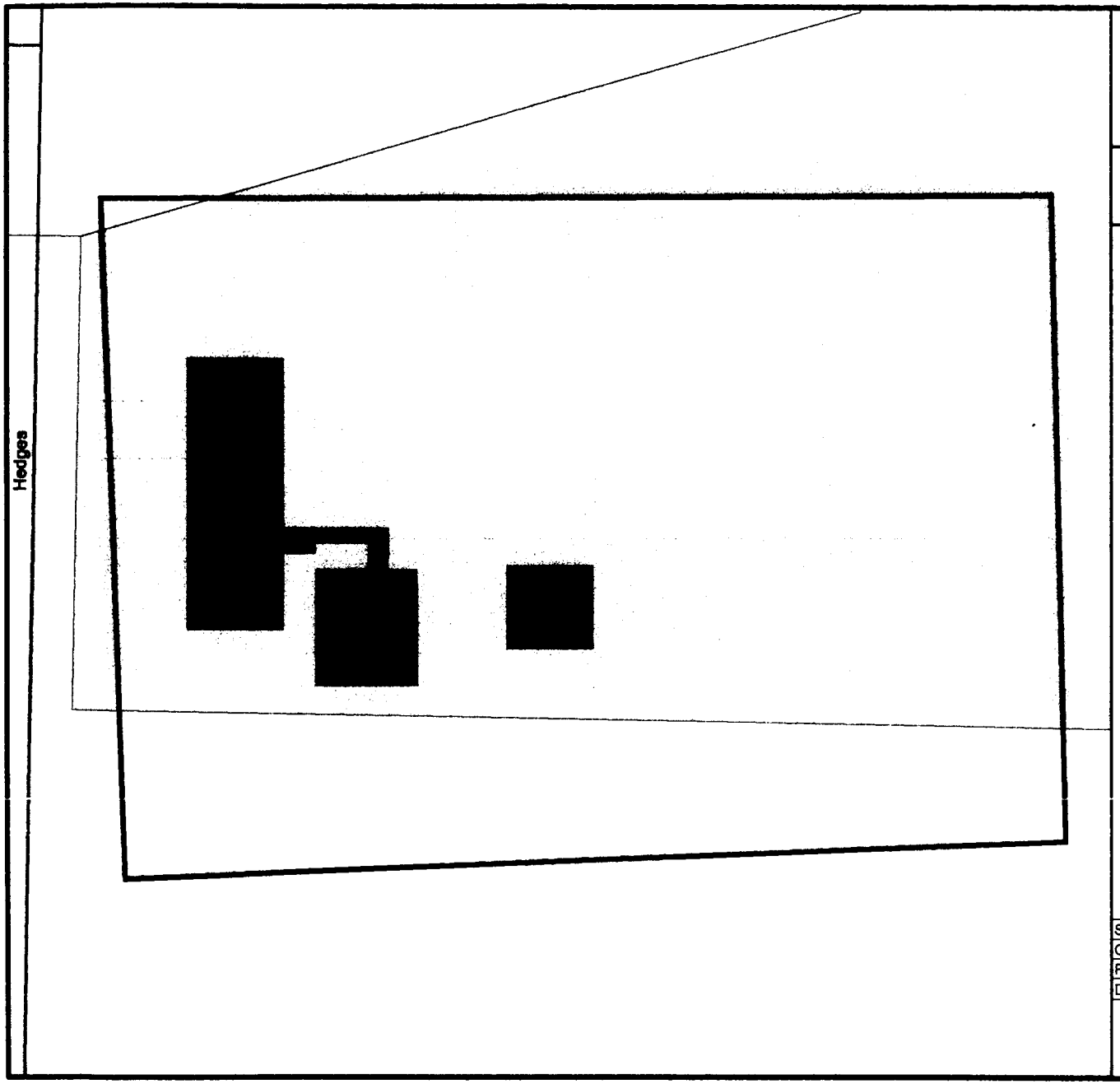
Data Sources:
Facility--88th RRC Facility Boundary Drawings
Buildings--USGS Orthophoto, DOQQ 1996
Streets--TIGER Data 2000
Streams and Lakes--USGS, NHD
Wetlands--USFWS, NWI
Wetlands--Ohio DNR OWI
Flood Zones--FEMA Q3

N
W
E
S

0 100 200 400 600 800
Feet

Scale: 1:4,800
Created By: Parsons
File: OH037_Facility.mxd
Date: 3/2005

PARSONS



OH037 Soils Map
SSG Roy Clifton Scouten USARC

88th Regional Readiness Command
Mansfield, Ohio
Richland County

Legend

- Streets
- Facility
- Building

Soils

- Canfield Silt Loam
- Cut and Fill Land
- Wooster Silt Loam

Data Sources:
Facility--88th RRC Facility Boundary Drawings
Buildings--USGS Orthophoto, DOQQ 1996
Soils--Ohio DNR 11/15/79
Streets--TIGER Data 2000

N
W E
S

0 40 80 160
Feet

Scale:	1:1000
Created By:	Parsons
File:	Mansfield_Soils.mxd
Date:	9/24/03

PARSONS

Ohio Department of Commerce

Division of State Fire Marshal
Bureau of Underground Storage Tank Regulation
6606 Tussing Road • P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942
www.com.state.oh.us

Bob Taft
Governor

Gary C. Suhadolnik
Director

June 15, 1999

US ARMY RESERVE
506 ROEDER CIRCLE
FORT SNELLING MN 55111-4009

SSG ROY CLIFTON
SCOUTEN USARC
271 HEDGES ST
MANSFIELD OH 44903
RICHLAND COUNTY
INCIDENT # 7090276-00

RE: NO FURTHER ACTION STATUS REGARDING CLOSURE REQUIREMENTS

Dear Sir/Madam:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed all information submitted for this incident number. Based on this information, BUSTR requires no further action involving closure under Ohio Administrative Code 1301:7-9-12.

Thank you for your cooperation. If you have any questions, please contact our office at (614) 752-7938.

Sincerely,

Kelly Gill
Corrective Actions Supervisor

KJG:anc

xc: Site File
Chief Keith Ransom, Mansfield Fire Department

May 27, 1999

Division of State Fire Marshall
Bureau of Underground Storage Tank Regulations
P. O. Box 687
Reynoldsburg, OH 43068-0687

Attention: Kelly Gill

Subject: Facility No. 702643
SSG Roy Clifton Scouten USARC, Mansfield, OH
Supplemental Information for UST Closure Reports

Dear Mr. Gill:

A few months ago, a UST Closure Report was submitted for the above-referenced facility. At that time, manifests for disposal of UST contents and waste oil sludge were not available. However, Mr. Tim Lutz of BUSTR indicated that the report should be submitted at that time and the manifests should be forwarded later. The required manifests and analytical results are enclosed now. Please attach these to the referenced Closure Report and issue a final closure certification for this tank.

Please direct written correspondence to:

Mr. Kurt Zacharias
Environmental Protection Specialist
Commander, 88th RSC
506 Roeder Circle
Fort Snelling, MN 55111-4009

If you have questions about the enclosed information please call me at 312-831-3215.

Very truly yours,

David C. Scharre
Project Manager

cc: Kurt Zacharias

OEPA Facility No. 702643

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No. 000002 | 2. Page 1 of

GENERATOR

3. Generator's Name and Mailing Address JSARC 217 HEDGES STREET MANSFIELD, OHIO 44903-2697

4. Generator's Phone (419) 525-1893

5. Transporter 1 Company Name	6. US EPA ID Number	A. Transporter's Phone
FOUR SEASONS ENVIRONMENTAL	WCO 99 12 7 7 3 2	614-836-1300
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	C. Facility's Phone
FOUR SEASONS ENV. 4700 HOMER OHIO LANE LEWISPORT, OHIO 43735	OHD 98 699 813	614-836-1300

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON-HAZARDOUS - NON REGULATED WASTE OIL + WATER	12	DM	600	GAL
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above	E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

24 HR EMERGENCY # 614-836-1300

P.O. 964.01

JOB # 9994050

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
RICHARD W BENNETT		03	18	99

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Jeff Iles		03	18	99

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

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

Printed/Typed Name	Signature	Month	Day	Year
Larry K McGinnis Jr		4	13	99

Printed by J. J. KELLER & ASSOCIATES, INC.
Neenah, WI 54957-0368

ORIGINAL – RETURN TO GENERATOR

FOUR SEASONS
ENVIRONMENTAL
A GREAT LAKES CHEMICAL CORPORATION COMPANY

OEPA Facility No. 7C 2643

4700 HOMER OHIO LANE • GROVEPORT, OH 43125 • (614) 836-1300 • FAX (614) 836-23

MIDWEST REGIONAL OFFICE
4700 Homer Ohio Lane
Groveport, Ohio 43125

Phone: (614) 836-1300
Facsimile: (614) 836-2304

Greensboro, NC Charlotte, NC Baton Rouge, LA Houston, TX Nashville, TN

Facsimile Transmittal Cover Sheet

To: Kendall Sattler

Company: _____

Phone Number: _____ Fax Number: 513-326-1550

From: Gary M. Grimm

Date: _____

Subject: _____

Number of Pages (Including cover sheet): _____ Original to be mailed? Yes ___ No ___

Comments: We now have all the tests back.

ADVANCED ANALYTICS LABORATORIES, INC.
1025 CONCORD AVENUE
COLUMBUS, OHIO 43212
(614) 299-9922 FAX (614) 299-4002
Analysis & Testing · Quality Control Programs · Research & Development

March 31, 1999

Four Seasons Environmental
4700 Homer Ohio Lane
Groveport, OH 43125
ATTN: Lester Douglas

AALI ORDER ID: 7036
APPROVAL #: EPA Certification 4043
CLIENT PROJECT: BHE
CLIENT PO NO.: 13626

DATE COLLECTED: 3/23/99
DATE RECEIVED: 3/25/99
DATE REPORTED: 3/31/99

TEST RESULTS

Test: Flashpoint
Method: 1010

AALI Sample Number	Client Sample Identification	Flashpoint Result	Detection Limit	Date Collected	Date Analyzed
31803	01/02	> 200 deg. F		3/23/99	3/31/99

Respectfully submitted,

Bradden Bigelow, Lab Manager

ADVANCED ANALYTICS LABORATORIES, INC.
1025 CONCORD AVENUE
COLUMBUS, OHIO 43212
(614) 299-9922 FAX (614) 299-4002
Analysis & Testing - Quality Control Programs - Research & Development

March 29, 1999

Four Seasons Environmental
4700 Homer Ohio Lane
Groveport, OH 43125
ATTN: Lester Douglas

AALI ORDER ID: 7036
APPROVAL #: EPA Certification 4043
CLIENT PROJECT: BIE
CLIENT PO NO.: 13626

DATE COLLECTED: 3/23/99
DATE RECEIVED: 3/25/99
DATE REPORTED: 3/29/99

TEST RESULTS

Test: pH
Method: 150.1

AALI Sample Number	Client Sample Identification	pH Result	Detection Limit	Date Collected	Date Analyzed
31803	01/02	10.1 S.U.		3/23/99	3/25/99

Respectfully submitted,

Bradden Bigelow, Lab Manager

ADVANCED ANALYTICS LABORATORIES, INC.
1025 CONCORD AVENUE
COLUMBUS, OHIO 43212
(614) 299-9922 FAX (614) 299-4002
Analysis & Testing - Quality Control Programs - Research & Development

April 5, 1999

Four Seasons Environmental
4700 Homer Ohio Lane
Groveport, OH 43125
ATTN: Lester Douglas

AALI ORDER ID: 7030
APPROVAL #: EPA Certification 4043
CLIENT PROJECT: BHF
CLIENT PO NO.: 13626

DATE COLLECTED: 3/23/99
DATE RECEIVED: 3/25/99
DATE ANALYZED: 4/2/99
DATE REPORTED: 4/5/99

TEST RESULTS

Test Method: 608/8080

AALI Sample No.: 31803 **Client Sample ID:** 01/02

Compound	Result	Detection Limit
4,4'-DDD	1 µg/L	1
4,4'-DDE	1 µg/L	1
4,4'-DDT	1 µg/L	1
Aldrin	1 µg/L	1
Alpha BHC	1 µg/L	1
Beta BHC	1 µg/L	1
Chlordane	1 µg/L	1
Delta BHC	1 µg/L	1
Dieldrin	1 µg/L	1
Endosulfan I	1 µg/L	1
Endosulfan II	1 µg/L	1
Endosulfan Sulfate	1 µg/L	1
Endrin	1 µg/L	1
Endrin Aldehyde	1 µg/L	1
Gamma BHC	1 µg/L	1
Heptachlor	1 µg/L	1
Heptachlor Epoxide	1 µg/L	1
PCB 1016	1 µg/L	1
PCB 1221	1 µg/L	1
PCB 1232	1 µg/L	1
PCB 1242	1 µg/L	1
PCB 1248	1 µg/L	1
PCB 1254	1 µg/L	1
PCB 1260	1 µg/L	1
Toxaphene	1 ug/L	1

ADVANCED ANALYTICS LABORATORIES, INC.
1025 CONCORD AVENUE
COLUMBUS, OHIO 43212
(614) 299-9922 FAX (614) 299-4002
Analysis & Testing - Quality Control Programs - Research & Development

TEST RESULTS

Test Method: 608/8080

AALI Sample No.: 31803 Client Sample ID: 01/02

Compound	Result	Detection Limit

Respectfully submitted,

Bradden Bigelow, Lab Manager

ADVANCED ANALYTICS LABORATORIES, INC.
1025 CONCORD AVENUE
COLUMBUS, OHIO 43212
(614) 299-9922 FAX (614) 299-4002
Analysis & Testing · Quality Control Programs · Research & Development

April 1, 1999

Four Seasons Environmental
4700 Homer Ohio Lane
Groveport, OH 43125
ATTN: Lester Douglas

AALI ORDER ID: 7036
APPROVAL #: EPA Certification 4043
CLIENT PROJECT: BHE
CLIENT PO NO.: 13626

DATE COLLECTED: 3/23/99
DATE RECEIVED: 3/25/99
DATE REPORTED: 4/1/99

TEST RESULTS

AALI Sample No.: 31803 **Client Sample ID:** 01/02

Compound	Result	Test Method:	Detection Limit	Analysis Date
Silver, TCLP	<0.2 mg/L	7760A	0.2	3/31/99
Arsenic, TCLP	<0.005 mg/L	7060	0.005	3/31/99
Barium, TCLP	<5.0 mg/L	3010A/7080	5	3/31/99
Cadmium, TCLP	0.1 mg/L	3010A/7130	0.1	3/31/99
Chromium, TCLP	<0.2 mg/L	3010A/7190	0.2	3/31/99
Mercury, TCLP	0.0014 mg/L	7470	0.0002	4/1/99
Lead, TCLP	0.8 mg/L	3010A/7420	0.2	3/31/99
Selenium, TCLP	<0.005 mg/L	7740	0.005	4/1/99

Respectfully submitted,

Bradden Bigelow, Lab Manager

ADVANCED ANALYTICS LABORATORIES, INC.
1025 CONCORD AVENUE
COLUMBUS, OHIO 43212
(614) 299-9922 FAX (614) 299-4002
Analysis & Testing - Quality Control Programs - Research & Development

April 5, 1999

Four Seasons Environmental
4700 Homer Ohio Lane
Groveport, OH 43125
ATTN: Lester Douglas

AALI ORDER ID: 7036
APPROVAL #: EPA Certification 4045
CLIENT PROJECT: BHE
CLIENT PO NO.: 13626

DATE COLLECTED: 3/23/99
DATE RECEIVED: 3/25/99
DATE ANALYZED: 4/2/99
DATE REPORTED: 4/5/99

TEST RESULTS

Test Method: 8270A

AALI Sample No.: 31803 **Client Sample ID:** 01/02

Compound	Result	Detection Limit
2,4,5-Trichlorophenol	0.01 mg/L	0.01
2,4,6-Trichlorophenol	0.01 mg/L	0.01
m-Cresol	0.01 mg/L	0.01
o-Cresol	0.01 mg/L	0.01
p-Cresol	0.01 mg/L	0.01
Pentachlorophenol	0.01 mg/L	0.01
2,4-Dinitrotoluene	0.01 mg/L	0.01
Hexachloro-1,3-butadiene	0.01 mg/L	0.01
Hexachlorobenzene	0.01 mg/L	0.01
Hexachloroethane	0.01 mg/L	0.01
Nitrobenzene	0.01 mg/L	0.01
Pyridine	0.01 mg/L	0.01

Respectfully submitted,

Bradden Bigelow, Lab Manager

ADVANCED ANALYTICS LABORATORIES, INC.
1025 CONCORD AVENUE
COLUMBUS, OHIO 43212
(614) 299-9922 FAX (614) 299-4002
Analysis & Testing - Quality Control Programs - Research & Development

March 31, 1999

Four Seasons Environmental
4700 Homer Ohio Lane
Groveport, OH 43125
ATTN: Lester Douglas

AALI ORDER ID: 7036
APPROVAL #: EPA Certification 4043
CLIENT PROJECT: BHE
CLIENT PO NO.: 13626

DATE COLLECTED: 3/23/99
DATE RECEIVED: 3/25/99
DATE ANALYZED: 3/31/99
DATE REPORTED: 3/31/99

TEST RESULTS

Test Method: 8240A

AALI Sample No.: 31803 **Client Sample ID:** 01/02

Compound		Result	Detection Limit
1,1-Dichloroethylene	<	0.05 mg/L	0.05
1,2-Dichloroethane	<	0.05 mg/L	0.05
1,4-Dichlorobenzene	<	0.1 mg/L	0.1
Benzene		0.120 mg/L	0.05
Carbon tetrachloride	<	0.05 mg/L	0.05
Chlorobenzene	<	0.05 mg/L	0.05
Chloroform	<	0.05 mg/L	0.05
Methyl ethyl ketone		0.225 mg/L	0.1
Tetrachloroethylene	<	0.05 mg/L	0.05
Trichloroethylene	<	0.05 mg/L	0.05
Vinyl chloride	<	0.1 mg/L	0.1

Respectfully submitted,

Bradden Bigelow, Lab Manager

CLOSURE FORM (PART I)

CLOSURE CHECKLIST

OWNERSHIP OF TANKS	LOCATION OF TANKS
OWNER NO. 11394 US ARMY RESERVE 506 ROEDER CIRCLE FORT SNELLING, MN 55111-4009	PERMIT NO. 08175 FACILITY NO. 702643 556 ROY CLIFTON SCOUTEN USARC 271 HEDGES STREET MANSFIELD, OH 44903

FILING INSTRUCTIONS

1. IN THE COLUMN ON THE LEFT SIDE OF THE FORM, PLACE EITHER THE PAGE NUMBER OR APPENDIX DESIGNATION WHERE EACH ITEM ON THE CHECKLIST CAN BE FOUND IN THE CLOSURE REPORT OR "N/A" (NOT APPLICABLE) FOR ITEMS THAT DO NOT APPLY TO YOUR CLOSURE REPORT.

2. UST OWNER MUST SIGN WHERE INDICATED AT THE END OF THIS FORM AND ATTACH IT TO THE CLOSURE REPORT. DEFICIENT CLOSURE REPORTS SUBMITTED TO OUR OFFICE WILL BE RETURNED TO THE UST OWNER FOR COMPLETION. SEND THE CLOSURE FORM AND THE CLOSURE REPORT TO THE ATTENTION OF THE "CLOSURE REVIEW SECTION".

NOTE: UST OWNER/OPERATORS SHALL SUBMIT ONE COPY OF THE WRITTEN CLOSURE REPORT WHICH SHALL BE RECEIVED BY THE STATE FIRE MARSHAL WITHIN 45 DAYS OF RECEIPT BY THE UST OWNER/OPERATOR OF SOIL AND/OR GROUND WATER LABORATORY ANALYSIS BUT NOT LATER THAN 90 DAYS FROM THE DATE OF COLLECTING SOIL AND/OR GROUND WATER SAMPLES.

I. UST SYSTEM OWNER, OPERATOR, AND FACILITY DATA

2.1 UST OWNER (NAME; ADDRESS; ZIP CODE; COUNTY; PHONE NO.)
2.1 UST OPERATOR (NAME; ADDRESS; ZIP CODE; COUNTY; PHONE NO.)
2.2 UST FACILITY LOCATION (NAME; ADDRESS; ZIP CODE; COUNTY; PHONE NO.)
2.2 UST FACILITY OWNER (NAME; ADDRESS; ZIP CODE; COUNTY; PHONE NO.)

II. UST SYSTEM DATA

2.9 DATE OF UST REMOVAL OR ABANDONMENT
N/A UST SYSTEM AGE (YEARS)
1.0 UST CAPACITY (GALLONS)
1.0 UST SYSTEM CONSTRUCTION (E.G., STEEL, FIBERGLASS, ETC.)
N/A DATE UST SYSTEM LAST USED
N/A PERSON WHO LAST USED UST SYSTEM
1.0 SUBSTANCE STORED IN UST BOTH PAST AND PRESENT (E.G. GASOLINE, DIESEL FUEL, USED OIL, ETC.)
1.0 UST SYSTEM USE (E.G. RETAIL SALES, RESIDENTIAL, FARM, BUSINESS, ETC.)
1.0 UST SYSTEM STATUS (PERMANENTLY REMOVED, ABANDONED-IN-PLACE, CHANGE-IN-SERVICE, OR TEMPORARY CLOSURE BEYOND TWELVE MONTHS)

III. WASTE DISPOSAL DATA

5.3 DISPOSAL OF UST SYSTEM
5.2 DISPOSAL AND FINAL LOCATION OF ANY LIQUIDS FROM UST SYSTEM OR UST SYSTEM EXCAVATION

IV. SAMPLING DATA

(GROUND WATER SAMPLING DATA ONLY REQUIRED IF GROUND WATER ENCOUNTERED DURING CLOSURE ACTIVITIES)

4.2 SOIL AND/OR GROUND WATER SAMPLE COLLECTION PROCEDURES
4.2 TYPE OF SAMPLE CONTAINERS AND SAMPLE PRESERVATION TECHNIQUES USED FOR SOIL AND/OR GROUND WATER SAMPLES
4.1 LABELING NUMBER OR DESIGNATION OF SOIL AND/OR GROUND WATER SAMPLE USED
4.1 TYPE OF SAMPLING EQUIPMENT USED (E.G. SPLIT SPOON, SHELBY TUBE, ETC.)
4.2 PROCEDURES USED FOR DECONTAMINATION OF SAMPLING EQUIPMENT
4.1 FIELD SCREENING METHODOLOGY USED FOR EACH SOIL AND/OR GROUND WATER SAMPLES OBTAINED
3.6 TYPE OF FIELD SCREENING INSTRUMENT USED
V LISTING OF FIELD SCREENING READINGS FOR EACH SOIL AND/OR GROUND WATER SAMPLE OBTAINED
V CALIBRATION DATE OF FIELD SCREENING INSTRUMENT
4.1 LOCATIONS AND DEPTHS OF ALL SOIL AND/OR GROUND WATER SAMPLES OBTAINED
VIII COPY OF CHAIN OF CUSTODY DOCUMENTATION FOR SOIL AND/OR GROUND WATER SAMPLES SUBMITTED TO LABORATORY
VIII SAMPLE COLLECTOR NAME AND COMPANY AFFILIATION

V. LABORATORY DATA

(GROUND WATER LABORATORY DATA ONLY REQUIRED IF GROUND WATER ENCOUNTERED DURING CLOSURE ACTIVITIES)

VIII COPIES OF LABORATORY SAMPLE ANALYSIS DATA SHEETS FOR SOIL AND/OR GROUND WATER SAMPLES
VIII DATE SOIL AND/OR GROUND WATER SAMPLES COLLECTED
VIII DATE SOIL AND/OR GROUND WATER SAMPLES RECEIVED BY LABORATORY
VIII DATE SOIL AND/OR GROUND WATER SAMPLES ANALYZED BY LABORATORY AND TYPE OF MATRIX ANALYZED (SOIL OR WATER)
VIII NAME, ADDRESS, AND PHONE NUMBER OF LABORATORY AND NAME OF SAMPLE ANALYST
VIII ANALYTICAL TEST METHODS USED FOR SOIL AND/OR GROUND WATER SAMPLES
VIII DETECTION/QUANTITATION LIMITS USED FOR LABORATORY TEST METHODS
N/A DATE OF LABORATORY INSTRUMENT CALIBRATION

VI. MISCELLANEOUS DATA

3.0 VISUAL SITE EVALUATION
VI SITE MAP ACCURATELY DEPICTING DIMENSIONS OF FACILITY PROPERTY BOUNDARIES, ABOVE GROUND STRUCTURES, ADJACENT STREET LOCATIONS, AND UST SYSTEMS (NUMBER OF TANKS AND PRODUCT LINES)
N/A MAPPED LOCATIONS OF KNOWN PRIVATE WELLS, PUBLIC WATER WELLS, OR MONITORING WELLS ON FACILITY
VI MAPPED LOCATIONS OF ANY UTILITIES EXPOSED DURING UST SYSTEM EXCAVATION
3.1 DESCRIPTION OF NATIVE SOILS ENCOUNTERED DURING UST SYSTEM EXCAVATION (E.G. SAND, GRAVEL, CLAY, ETC.)
4.1 MAPPED DEPTHS AND LOCATIONS OF ALL SOIL AND/OR GROUND WATER SAMPLES TAKEN FROM EXCAVATION
VI MAPPED LOCATION OF UST RECENTLY OR HISTORICALLY REMOVED, ABANDONED-IN-PLACE, OR HAS UNDERGONE A CHANGE IN SERVICE, OR TEMPORARY CLOSURE BEYOND TWELVE MONTHS
N/A MAPPED LOCATIONS OF OTHER UST STILL IN SERVICE
VI MAPPED LENGTH OF UST AND PRODUCT LINE
VI MAPPED EXCAVATION LIMITS
2.6 CERTIFIED FIRE SAFETY INSPECTOR NAME AND CERTIFICATE NUMBER
N/A LOCAL FIRE DEPARTMENT (NAME; ADDRESS; ZIP CODE; COUNTY; PHONE)
I COPY OF 30 DAY CLOSURE NOTIFICATION AND CLOSURE PERMIT

CLOSURE FORM (PART II)

SITE FEATURE SCORING SYSTEM (SFSS) CHART

REFER TO SFSS GUIDELINES BEFORE COMPLETING

SITE FEATURES	COLUMN A		COLUMN B		COLUMN C		COLUMN D	
	SCORE 20	ENTER SCORE	SCORE 15	ENTER SCORE	SCORE 10	ENTER SCORE	SCORE 5	ENTER SCORE
1. DISTANCE OF UST SYSTEM FROM CLOSEST POTABLE WATER SUPPLY SOURCE CURRENTLY IN USE IS:	> 1000 FT		300-1000 FT	15	< 300 FT		INSIDE OF DESIGNATED SENSITIVE AREA	
2. DEPTH TO GROUND WATER IS:	> 50 FT		31-50 FT		15-30 FT OR UNKNOWN	10	< 15 FT	
3. PREDOMINANT SOIL TYPE OF SUBSTRATUM IS:	CLAY OR SHALE	20	SILT OR CLAYEY SANDS OR FINE SANDSTONE		SILTY SAND OR FINE SAND, UNKNOWN, OR SANDSTONE		CLEAN SAND, GRAVEL, OR CONGLOMERATE	
4. NATURAL AND/OR MAN-MADE CONDUITS OR RECEPTORS ARE: (COMPLETE WORKSHEET BELOW)	< 8 POINTS		8-10 POINTS		11-13 POINTS	10	> 13 POINTS	
ADD SUBTOTALS:		20	+	15	+	20	+	0
							TOTAL SCORE	55

SITE FEATURE 4 WORKSHEET:

BASEMENTS OR SUBSURFACE FOUNDATIONS WITHIN 100 FEET OF UST SYSTEM	4 POINTS	4
STORM SEWER WITHIN 50 FEET OF UST SYSTEM	4 POINTS	4
SANITARY SEWER WITHIN 50 FEET OF UST SYSTEM	4 POINTS	4
SEPTIC SYSTEM LEACH FIELD WITHIN 50 FEET OF UST SYSTEM	2 POINTS	
WATER LINE MAIN WITHIN 50 FEET OF UST SYSTEM	1 POINT	
NATURAL GAS LINE MAIN WITHIN 50 FEET OF UST SYSTEM	1 POINT	
BEDROCK AREA PRONE TO DISSOLUTION ALONG JOINTS OF FRACTURES WITHIN 100 FEET OF UST SYSTEM	1 POINT	
FAULTS OR KNOWN FRACTURES WITHIN 100 FEET OF UST SYSTEM	1 POINT	
BURIED TELEPHONE/TELEVISION CABLE MAIN WITHIN 50 FEET OF UST SYSTEM	1 POINT	
BURIED ELECTRICAL CABLE MAIN WITHIN 50 FEET OF UST SYSTEM	1 POINT	
	TOTAL POINTS	12

IF TOTAL POINTS FROM SITE FEATURE 4 WORKSHEET ARE:

- < 8, ENTER SCORE OF 20 IN COLUMN A OF SITE FEATURE 4 IN SFSS CHART
- 8 - 10, ENTER SCORE OF 15 IN COLUMN B OF SITE FEATURE 4 IN SFSS CHART
- 11 - 13, ENTER SCORE OF 10 IN COLUMN C OF SITE FEATURE 4 IN SFSS CHART
- > 13, ENTER SCORE OF 5 IN COLUMN D OF SITE FEATURE 4 IN SFSS CHART

NOTE: AFTER COMPLETING SFSS CHART (ABOVE), COMPARE THAT SCORE WITH TOTAL SCORES IN ACTION LEVEL TABLE (BELOW) TO DETERMINE ACTION LEVELS FOR UST SITE.

SFSS ACTION LEVELS TABLE (PPM)

CONSTITUENT	CATEGORY 1	CATEGORY 2	CATEGORY 3	CATEGORY 4
TOTAL SCORE	< 31	31-50	51-70	> 71
SOIL BTEX	.006/4/6/28	.170/7/10/47	.335/9/14/67	.500/12/18/85
GROUND WATER BTEX	.005/1/.700/10	.005/1/.700/10	.005/1/.700/10	.005/1/.700/10
SOIL TPH (GASOLINE)	105	300	450	600
SOIL TPH (OTHERS)	380	642	904	1156

CLOSURE FORM (PART III)

SOIL DISPOSAL/TREATMENT REQUIREMENTS

Please provide the page number or appendix designation where the following items may be found in the closure report:

45 Calculated stockpile volume in cubic yards
5-1 Description of stockpile storage and staging (e.g., bermed, covered, etc.)
4-2 Stockpile sampling and field screening procedures, locations, dates, and results
VIII Stockpile laboratory reports and chain of custody form

In order to comply with the reporting requirements of OAC 1301:7-9-16, please refer to the Soil Disposal/Treatment Notification Form on the following page. The first page of the Soil Disposal/Treatment Notification Form should be completed for each stockpile generated. The second page of the Soil Disposal/Treatment Notification Form should be completed if the PCS is to be treated at a designated facility.

Please consolidate the Soil Disposal/Treatment Notification Form and related PCS information in a separate section of the closure report. The State Fire Marshal is required to track and manage all information derived from PCS generated in compliance with OAC 1301:7-9-16. Consolidating the PCS information in a separate section of the closure report will facilitate a faster review of the site file.

CLOSURE FORM (PART IV)

CLOSURE FORM CERTIFICATION STATEMENT

The following certification statement must be completed by the UST owner/operator. **The notarized written statement found at the end of the Soil Disposal/Treatment Notification Form must also be completed if the PCS is to be treated.**

I certify that I have personally examined and that I am familiar with the information submitted in this form, and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

KURT ZACHARIAS — 01 MAR 99

Owner/operator's name (print) *Signature* *Date*

CLOSURE ASSESSMENT REPORT
FOR
WASTE OIL UNDERGROUND STORAGE TANK
AT
SSG ROY CLIFTON SCOUTEN USARC FACILITY
MANSFIELD, OH

Prepared For:

US ARMY CORPS OF ENGINEERS, OMAHA DISTRICT
Contract No. DACW45-94-DC-0004

Prepared by
Harza Environmental Services, Inc.
Chicago, Illinois

February 18, 1999

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Closure Assessment Report
Waste Oil Underground Storage Tank
SSG Roy Clifton Scouten USARC Facility
Mansfield, OH

1.0 Introduction

The Omaha District, US Army Corps of Engineers (USACE) contracted with Harza Environmental Services, Inc. (Harza) to conduct the permanent closure of a number of underground storage tank (UST) systems at various 88th Regional Support Command (RSC) facilities located in five states. The scope of work at SSG Roy Clifton Scouten US Army Reserve Center (USARC) facility (site) included the permanent closure by removal of a 550-gallon (gal) Waste Oil double- wall fiberglass UST located at the site. The Waste Oil UST was registered with the Bureau of Underground Storage Tank Regulations (BUSTR), Division of State Fire Marshall, Ohio Department of Commerce.

The site consists of a Main Building containing office, training and storage facilities, an OMS (Organization Maintenance Shop) Building containing vehicle maintenance bays, offices, and storage, paved outdoor parking areas, and open grassy areas, as presented in the Site Plan figure in Appendix V. The OWS is located east of the OMS Building and the UST was located west of the OWS system. A sewer drains to the OWS from the vehicle maintenance bays inside the OMS Building. A sewer also drains to the OWS from a sand trap in an outside vehicle wash rack located east of the OWS system. The OWS discharges to a sanitary sewer. According to the facility manager, the OWS is used primarily for vehicle and equipment cleanup. The OWS is seldom used at this facility.

The Waste Oil UST was part of an Oil/Water Separator (OWS) system. Waste oil, collected after washing vehicles, drained into an OWS (Baffle type) where the oil and water were separated by gravity and flotation. The oil, floating on top of water, flowed through a sloped steel pipe into a separate UST. This UST held the waste oil collected after each wash. This Waste Oil UST was removed as part of the closure activities. The outlet of the OWS system was plugged and the OWS remained in the ground for future operations.

The permanent removal of the UST and the sample collections were done according to the Ohio Administrative Code (OAC) 1301:7-9-12 Guidelines. Harza followed the OAC 1301:7-9-12 (L) Guidelines for developing the closure report procedures including the permit process and arranging for a Certified UST Inspector to witness the UST removal. A copy of the 30-Day Closure Notification and Permit form is presented in Appendix I. A copy of the Final Inspection Field Report is not included because the Certified UST Inspector kept it for his records. This site assessment report describes the closure of the UST system.

2.0 Site Background Information

2.1 UST Owner/Operator

US Army Reserve – 88th RSC
506 Roeder Circle
Fort Snelling, MN 55111-4009

2.2 UST Facility Owner/Location

SSG Roy Clifton Scouten USARC
271 Hedges Street
Mansfield, Ohio 44903

2.3 Sensitive Area Reference of the Site

The UST was not located in a sensitive area.

2.4 UST Owner ID

The UST is registered with BUSTR under ID # 11394

2.5 UST Facility ID

UST Facility ID # 702643

2.6 Certified UST Inspector

Harlan Barrick
Certified UST Inspector No. 1017
Mentor Fire Department
140 East Third Street
Mansfield, OH 44902

2.7 UST Removal Contractor

BHE Environmental Inc. (BHE)
11733 Chesterdale Road
Cincinnati, OH 45246

2.8 OH Certified UST Installer

Tom Forbes
Certified Installer No. 10-91-1786
BHE Environmental Inc.
4249 Diplomacy Drive
Columbus, OH 43228

2.9 UST Description

The 550-gal Waste Oil UST was located east of the Maintenance Building next to the heavy vehicles parking garage, as shown in a site sketch presented in Figure 1 in Appendix V. As described above, the UST system was part of the USARC

OWS system operation. The double-wall fiberglass UST was an extension to the steel baffle-type OWS where the washed waste oil was stored. No information was available on the exact installation date and the age of the UST system. This UST was 4 feet (ft) in diameter and 6 ft long and contained approximately 550 gal of waste oil and water mixture before its removal. The 550-gal double-wall fiberglass UST was manufactured by Owens/Corning and had the Underwriters Laboratory (UL) Serial No. 79866. The piping connecting the two was made of steel. The OWS along with the UST was not in use at the time of removal. No information was available on the date or the person who last used the UST system. There was no alarm system or leak detection gauge visible on the UST before excavation.

The geographic reference of the site indicates that this UST, located in the Richland County, was not in a sensitive area. The UST was removed from the ground on December 2, 1998. Upon removal of the UST from the ground, the tank was in good condition and no holes were observed. A total of approximately 600 gal of waste oil and water mixture, sludge and rinsate was removed from the UST during removal activities. The UST excavation was backfilled with the excavated round pea gravel. A detailed description on the disposal of the waste oil contents with proper manifests is provided in Section 3.4. The tank was removed from the ground, cleaned, rendered useless and disposed on December 2, 1998. Harza was involved as the oversight consultant on behalf of USACE for the UST removal activities that were performed by BHE, the UST removal contractor.

3.0 Tank Removal Process

3.1 UST Removal Procedure

A day before any digging for the UST removal, utility clearances were obtained at the UST location. The 550-gal Waste Oil UST was under 6 inches (6") thick concrete slab, which was saw cut and removed before any excavations began. After the UST contents were removed, the UST was excavated to expose the side sections of the UST. Excavation for the steel pipe connecting to the OWS system was conducted next so that the steel pipe could be cut and the waste oil mixture drained back into the UST. The UST was installed on a 12" thick concrete pad underneath with one metallic anchor strap on each end to hold it. The metallic anchors were broken to remove the UST. All steel piping were disconnected and removed. The internal atmosphere of the UST was tested frequently to ensure that the lower explosive limit (LEL) reading was below 20% at all times. No defuming of the UST was required as the LEL reading was never above 20%. During UST excavation, perched water from neighboring soils was entering the hole. The certified UST inspector confirmed that it was perched water and not groundwater, because the groundwater at this location was more than 20 ft deep.

The UST was then removed from the excavation hole and placed on the ground for cleanup.

The visual site evaluation of the UST system revealed no evidence of any operational problems. The double-wall fiberglass UST condition was good with the manufacturing label still visible, upon removal from the ground. On the ground, the UST had no signs of any tear, leakage or damage to the double-wall fiberglass tank. There was no indication of any concrete staining, surface soil staining or pipe joint leaks during the removal operation. The tank was placed in a tilted position to drain the remaining waste oil mixture. The concrete pad was left in the excavation bottom.

The backfill material consisted of round pea gravel and was placed on a plastic tarp after excavation. The backfill material had no visual observation of any stain or contamination. The native soil is clayey soil, brown in color. All the excavated backfill was returned into the hole. In addition to the pea gravel backfill, approximately 4 cubic yards of clean backfill material consisting of crushed stone was brought to the site by Four Seasons Environmental to fill the hole. The excavated hole was compacted in 6 to 12 inch lifts using backhoe bucket and graded. The surface restoration of the site will be performed by USACE.

3.2 UST Atmosphere Monitoring

The UST internal atmosphere was monitored by BHE with an explosimeter (combustible gas and oxygen meter) Model 261 manufactured by Mine Safety Appliances (MSA). The UST internal atmosphere and the excavation area were also tested with the LEL-O2 meter to assure that the LEL reading remained less than 20 % during the removal process.

The instrument was calibrated in the morning using manufacturer recommended calibration gas. Prior to each reading, the instrument was cleared and reset. The internal atmosphere of the empty UST was monitored by lowering the explosimeter probe down the manhole and obtaining readings near the bottom, middle, and upper parts of the UST.

3.3 UST Contents Sampling

Consistent with the OAC 1301:7-9-12 Guidelines, the UST contents were analyzed before proper disposal by BHE. A total of eleven 55-gal drums (approximately 550 gal) were used to store on site, the waste oil and water mixture pumped from the UST. A sample was collected from one of the drums and sent for characterization to a certified laboratory before disposal. A detailed description on the amount and analytical description of the UST contents will be provided at a later date. The analytical results are presented in Appendix III.

3.4 Removal of Product and Sludge

The PVC pipe leading to the OWS system was cut and drained back into the UST. The outlet of the OWS was plugged, after the product in the piping was drained. As reported earlier, total of approximately 600 gal of waste oil and water mixture. sludge and rinsate were removed from the UST on December 2, 1998. A total of twelve (12) 55-gal drums were used to store the contents of the UST. Out of these twelve 55-gal drums, eleven (11) drums contained the waste oil and water mixture and the remaining one drum contained waste oil sludge and rinsate collected after cleaning of UST.

3.5 Tank Cleaning

The inside of the Waste Oil UST was cleaned by BHE. After testing its internal atmosphere, the tank was cut open at one end and decontaminated in place with safety adsorbents. The tank was triple-steam rinsed and the generated sludge and rinsate were collected and contained in one 55-gal drum. This drum of waste oil sludge will be transported and disposed at a later date. A copy of the manifest is presented in Appendix II.

3.6 Soil Vapor Monitoring

During excavation for the UST, the excavated backfill pea gravel surrounding the UST was continuously monitored using a Photo-Ionization Detector (PID) Model MiniRAE. The PID is capable of detecting volatile hydrocarbon vapors in the 1-100 ppm range. Prior to each reading, the instrument was cleared and reset. Excavated backfill material samples were tested by extracting a fresh sample and splitting into two from a depth of 4 to 6 inches below the exposed surface. Each excavated sample was placed into a fresh plastic bag and the headspace was analyzed with the PID. This allowed to alleviate the potential for false readings from volatilization caused by moving air and evaporation. The sample was collected from the highest field reading.

The PID readings were taken at different intervals during the removal of the Waste Oil UST. No PID readings were obtained from the stockpiled excavated backfill materials. A copy of the field readings is presented in Appendix IV.

4.0 Site Assessment

A site assessment for the UST was conducted on December 2, 1998 in accordance with the OAC 1301:7-9-12 (K) 4(c) sampling requirements for permanent UST closure by removal.

4.1 Soil Sampling Locations

The soil sample locations for the closure site assessment were taken to check for any contamination. Overall, three samples were collected for this 550-gal Waste Oil UST. Two grab samples were taken from the excavation floor, one at either end of the UST. The grab samples from the bottom of the excavation were collected from the East and West ends of the UST, 2 feet below the surface of the native soil, clayey brown in color. The sample locations were within one foot of either end of the concrete pad.

Since the volume of the excavated backfill material was more than 25 cubic yards, six headspace readings were taken as required by OAC 1301:7-9-12 Guidelines. One grab sample was collected from the backfill material. The sample with the highest field screening reading was selected for laboratory analysis. Since there were no headspace readings observed, one sample was collected from the north side of the excavated pile (Pile #1). No pipeline sample was taken as the piping run was only 4 feet between the UST and the OWS system, less than the required twenty feet.

The sample identification numbers are labeled as OH037-VOC@-1298 and OH037-TPH@-1298, where @ represents the location. The sampling locations, the sample identification numbers, and the layout of the excavation hole are shown in Appendix V.

4.2 Soil Sampling Procedure

The soil sampling procedures for the closure samples were followed using the OAC 1301:7-9-12 Guidelines for UST site assessments. All samples were collected in native soil, 2 feet below the surface. A field location map was generated during the site assessment and is presented in Figure 1 in Appendix V. All samples collected for this UST were analyzed for Volatile Organic Aromatics (VOA) and Total Petroleum Hydrocarbons (TPH). As specified in the guidelines, soil samples for VOA and TPH analysis were collected in 4 oz. clear wide mouth container with teflon lined septa caps. No preservatives were used for either analyses. The samples were then placed in a cooler with ice bags to keep them below a temperature of 4°C.

All samples were collected using disposable gloves. The disposable gloves were replaced after every sample collection. Soil samples in the excavation hole were performed using a backhoe. For the excavated backfill sampling, hand was used to collect the sample 1 foot inside the backfill. Decontamination of all equipment was carried with double rinse of Alconox followed by triple rinse of distilled water. After collection of all samples, samples were neatly labeled and packed for shipment to laboratory. For shipping to the laboratory, a Quality Assurance/Quality Control (QA/QC) sample was also sent in addition to the

regular samples. The QA/QC sample was a regular trip blank (Laboratory prepared sample, VOC vial containing 40 ml distilled water).

Samples were collected by Harza. All samples collected and shipped were identified in a Chain of Custody (C.O.C.) sheet. All samples including duplicate copies of the C.O.C. were shipped next day via Federal Express. A copy of the C.O.C. is presented in Appendix VII.

4.3 Soil Analytical Results

The samples were analyzed for VOA analysis using EPA Method 8260 (previously 8240) and for TPH analysis using EPA Method 418.1R (previously 418.1). All analyses for this site were performed by a certified laboratory, Great Lakes Analytical, Buffalo Grove, IL. For VOA analysis, the analytical results indicated that all three samples were non-detect. Also, for TPH analysis analytical results indicated that all three samples were non-detect. The analytical results for the soil samples and a copy of the C.O.C. are presented in Appendix VII.

5.0 Disposal of Waste Materials

5.1 Soil Disposal

During removal of the UST, the size of the excavation hole was 12 ft 1 in x 11ft 4 in x 8ft 11in, a total of about 1221 cubic feet (approximately 45 cubic yards). As described in Section 3.1, the excavation backfill material was stockpiled (Pile # 1) over a liner. No soil was disposed off-site. No readings were obtained from the excavated stockpile, Pile # 1, and there were no visual signs of any stain or any odor. All the 45 cubic yards of excavated backfill soil was returned into the hole for restoration purposes. A copy of the Soil Disposal/Treatment Notification Form is included in Appendix VI.

5.2 UST Contents Disposal

A total of approximately 600 gal of waste oil and waster mixture, sludge and rinsate was removed from the UST during removal activities performed on December 2, 1998. A total of twelve (12) 55-gal drums were used to store the contents of the UST.

Eleven (11) 55-gal drums (approximately 550 gal) of waste oil and water mixture pumped from the UST stored on site will be hauled off site for disposal at a later date. UST contents will be manifested for off-site transportation. A copy of the manifest is presented in Appendix IV.

One 55-gal drum of waste oil contaminated sludge and rinsate produced after cleaning of the tank will be disposed at a later date. A copy of the manifest is presented in Appendix II.

The concrete pad was left in the excavation prior to backfilling the hole with pea gravel.

5.3 UST Disposal

The double-wall fiberglass UST which was removed, cleaned and rendered useless was disposed of at Four Seasons Environmental, Groveport, OH on December 2, 1998. A copy of the disposal receipt is presented in Appendix VIII.

6.0 Site Restoration

The site was restored on December 2, 1998. All the excavated pea gravel backfill was returned into the hole. In addition to the pea gravel backfill, approximately 4 cubic yards of clean backfill material consisting of crushed stone was brought to the site by Four Seasons Environmental to fill the hole. The soil was compacted in accordance with contract specifications with 6-12 inch lifts and compaction using backhoe bucket. Final surface restoration will be performed by USACE.

7.0 Conclusions

Based on the laboratory analytical results for all confirmation closure samples, all VOAs and TPH analyses were found below detection limits. Therefore, a clean closure letter for this 550-gal double-wall fiberglass UST (Facility ID# 702643) located at Mansfield, OH is warranted.

Appendix I

30 Day Closure Notification and Closure Permit

COM-5208

DEPARTMENT OF COMMERCE, DIVISION OF STATE FIRE MARSHAL
BUREAU OF UNDERGROUND STORAGE TANK REGULATIONS
P.O. BOX 687
REYNOLDSBURG, OH 43068-0687

08175

DELEGATED PERMIT FOR UNDERGROUND STORAGE TANKS

Permit No:

Issue Date:

I. OWNERSHIP OF TANK	II. LOCATION OF TANK
Owner/Operator Name: US Army Reserve	Facility Name: U.S. Army Reserve Center
Address: 217 Hedges St.	Address: 217 Hedges STREET
City: Mansfield State: Ohio Zip:	City: Mansfield State: Ohio Zip:
Attn: (Contact Person) Area Code - Phone	Area Code - Phone County: Richland
III. CONTRACTOR	**IV. LOCAL FIRE DEPARTMENT**
Contractor's Name: B+E Environmental INC	Fire Department Name:
Contact Person: Tom Forbes Area Code - Phone: (614) 771-4100	Address:
Address: 4219 Diplomacy Dr.	City: State: Zip:
City: Columbus State: Zip: 43228	

Need Forbes

V. CONDITIONS. PERMIT EXPIRES SIX (6) MONTHS FROM DATE OF ISSUE. FEE IS NON-REFUNDABLE.

VI. PERMIT ISSUED FOR: SEE BELOW

Removals/Abandonments

[101] Tank(s): 500 GAL WASTE Oil [102] Piping [103] Total Systems

Installations:

[201] Tank(s) [202] Piping [203] Total Systems

Replacement:

[301] Tank(s) [302] Piping [303] Total Systems

Repairs:

[401] Tank(s) [402] Piping

Upgrades:

[501] Tank(s) [502] Piping [503] Total Systems [504] Leak Detection

[601] **Temporary Closure** [701] **Change in Service**

FIRE DEPARTMENT USE ONLY

Certified Installer Name: W T Farley No: 10-91-1786

Certified Inspector's Signature: Harlan Barrick No: 1017 Date: 11/23/98

COM 5210 Revised 2 97 Distribution: White-Owner Copy Canary-State Fire Marshal Copy Pink-Fire Department Copy

Appendix II

Waste Oil Sludge Disposal Manifest

To be provided at a later date

Appendix III

UST Contents Analytical Results

And

Disposal Manifest

To be provided at a later date

Appendix IV

PID Calibration and Field Measurements

HARZA Environmental Services

FIELD EQUIPMENT CALIBRATION

Project Name 88TH BRSC USTs REMOVAL

Site Location Mansfield, OH

Project No. 5644 GJ

Equipment Model Mini RAE PID

Technician Name Ramesh K.

Date 12/2/98

TIME	INSTRUMENT READING	CALIBRATION METHOD	COMMENTS
8:07	0 ppm	Zero Gas	
8:13	100.0 ppm	100 ppm Isobutylene Gas	

Reviewed By: RK

Date : 12/2/98

HARZA Environmental Services

FIELD TEST RESULT LOG

Project Name 88TH RSC USTs REMOVAL

Site Location Mansfield, OH

Project No. 5644 GJ

Equipment Model Mini RAE PID

Type of Test PID

Technician Name Ramesh K.

Date 12/2/98

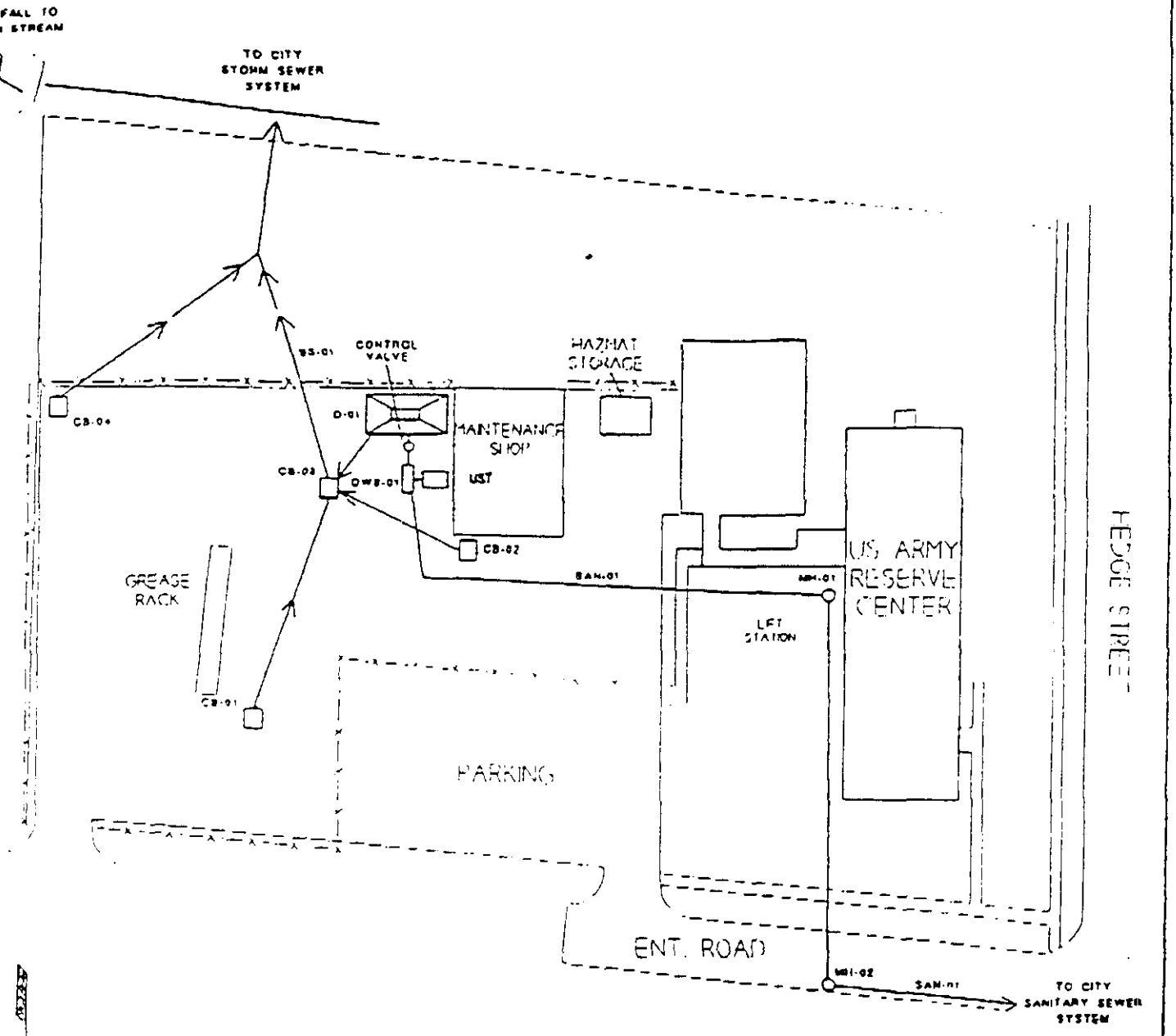
TIME	INSTRUMENT READING	LAST CALIBRATION	COMMENTS
10 29	0 ppm	12/2/98	Top Soil & Asphalt mix
10 39	0 ppm		west side of UST
10 47	0 ppm		west side of UST
10 59	0 ppm		Top of UST
11 20	0 ppm		east side of UST
11 37	0 ppm		North side of UST
11 48	0 ppm		North side of UST
1 39	0 ppm		South side of pile #1
1 40	0 ppm		East side of Pile #1
1 41	0 ppm		SE side of pile #1
1 43	0 ppm		west side of Pile #1
1 44	0 ppm		NW side of pile #1
1 45	0 ppm		North side of pile #1

Reviewed By: RK

Date : 12/2/98

Appendix V

Site Sketch and Sampling Locations



SITE PLAN

N

LEGEND	
SAN-01	SANITARY LINE #01
SS-01	STORM WATER SEWER LINE #01
	DRAINAGE DITCH
CB-01	CATCH BASIN #01
D-01	DRAIN #01 (@ WASH FACILITY)
TD-01	TRENCH DRAIN #01
OWS-01	OIL / WATER SEPARATOR

REVISION	DATE	DESCRIPTION	BY
	11/22/17	SINGLE-LINE SITE PLAN; AUTOCAD FILE NAME: [illegible]	JTI

OIL WATER SEPARATOR (OWS)

DRAWN BY: JTI
CHECKED BY: JTI
DESIGNED BY: JTI
REVIEWED: SECTION CHIEF

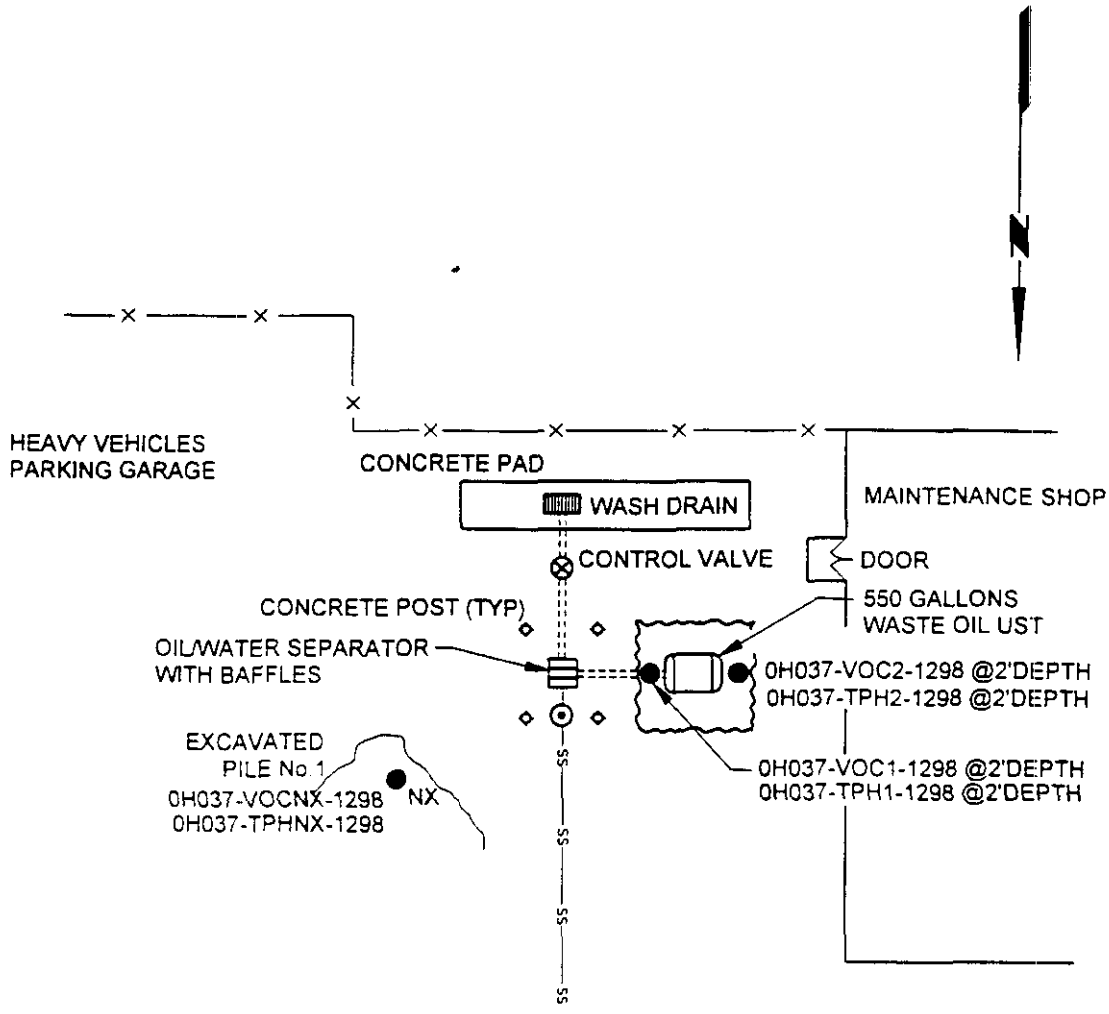
88th REGIONAL SUPPORT COMMAND - OHIO

SCOUTIN, USARC
FACILITY OH037

MANSFIELD OHIO

SUBMITTED: CHIEF DESIGN BRANCH
RECOMMENDED: CHIEF, ENGINEERING DIVISION
APPROVED: COLONEL C.E. DISTRICT ENGINEER
DATE

SCALE AS SHOWN
DRAWING NUMBER
SHEET ____ OF ____



LEGEND

● Sampling Location

SCALE

0 20 Feet

Figure 1

SSG ROY CLIFTON SCOUTEN USARC
SITE SCHEMATIC DIAGRAM AND SAMPLE LOCATIONS

88th RSC USTs REMOVAL PROJECT
Mansfield, Ohio

HARZA *Consulting Engineers and Scientist*

R:\5644GA\5644GJ-8.DGN 8/D/11-98

Appendix VI

Soil Disposal/Treatment Notification Form

STATE FIRE MARSHAL/BUSTR
SOIL DISPOSAL/TREATMENT NOTIFICATION FORM

THIS FORM SHOULD BE COMPLETED AND SUBMITTED WITHIN 90 DAYS OF GENERATING A STOCKPILE. WITHIN 180 DAYS OF PLACING THE SOIL IN PORTABLE CONTAINERS, OR PRIOR TO TREATMENT, WHICHEVER COMES FIRST. A SEPARATE FORM SHOULD BE COMPLETED FOR EACH STOCKPILE GENERATED.

OWNER/OPERATOR INFORMATION

OWNER/OPERATOR NAME	CONTACT PERSON	AREA CODE-PHONE
US ARMY RESERVE - 88TH RSC	KURT ZACHARIAS	(612) 713-3821

ADDRESS	CITY	STATE	ZIP CODE
506 ROEDER CIRCLE	FORT SNELLING	MN	55111-4009

FACILITY WHERE SOILS WERE GENERATED	FACILITY WHERE SOILS WILL BE DISPOSED OF OR TREATED
FACILITY NAME: 556 ROY CLIFTON SCOUTEN USARC	FACILITY NAME: 556 ROY CLIFTON SCOUTEN USARC
ADDRESS: 271 HEDGES STREET	ADDRESS: 271 HEDGES STREET
CITY: MANSFIELD STATE: OH ZIP CODE: 44903-2697	CITY: MANSFIELD STATE: OH ZIP CODE: 44903-2697
AREA CODE-PHONE: (419) 525-1893 COUNTY: RICHLAND	COUNTY: RICHLAND STOCKPILE DESIGNATION (e.g., pile #1, pile from waste oil cavity, etc.): PILE #1

DATE STOCKPILE WAS GENERATED DECEMBER 2, 1998

DISPOSITION OR TREATMENT OF STOCKPILE (**provide the number of cubic yards in the appropriate place below**)

Cubic Yards		(Check applicable)
_____	Soil analysis falls below category 1 action levels	____on-site ____off-site
_____	One Time Landfarming	____on-site ____off-site
_____	Multiple Application Landfarming	____on-site ____off-site
_____	Confined Treatment Area Process	____on-site ____off-site
_____	Alternative Treatment Method	____on-site ____off-site
_____	Disposal at a treatment facility	
45	Returned to excavation (below site specific category action levels)	
_____	Returned to excavation (above site specific category action levels)	
_____	Disposal at a landfill	

*********CONTINUED ON REVERSE SIDE*********

FOR OFFICE USE ONLY

REPORT #: _|_|_|_|_|_|_|_|_|-|_|_|-|_|_|_|_|

COORD:_____ STAT:_____ PRIO:____ CLASS:_____ LTF:____ CYDS:_____

REVIEWED BY:_____ DATE:_____

ENTERED BY:_____ DATE:_____

IF PCS IS TO BE TREATED AT A DESIGNATED FACILITY, COMPLETE THIS PAGE BY PROVIDING THE FOLLOWING INFORMATION:

1. A MAP OF THE LOCATION WHERE TREATMENT WILL TAKE PLACE. THE MAP SHOULD DEPICT PROPERTY BOUNDARIES, STREET LOCATIONS, ABOVE GROUND STRUCTURES, ETC. (REFER TO OAC 1301:7-9-16 FOR COMPLETE LIST.)

2. A BRIEF DESCRIPTION OF THE TREATMENT METHOD TO BE USED (INCLUDE ADDITIONAL PAGES IF NEEDED)

_____

_____

_____

_____

_____

_____

3. THE FOLLOWING WRITTEN STATEMENT SIGNED BY THE UST OWNER OR OPERATOR AND SWORN TO OR ACKNOWLEDGED BY THE UST OWNER OR OPERATOR BEFORE A NOTARY PUBLIC:

" I STATE UNDER PENALTY OF PERJURY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF (PLEASE CHECK ONE)

_____THE ON-SITE TREATMENT AT THE UST SITE DESCRIBED ABOVE

_____ THE OFF-SITE TREATMENT AT THE LOCATION DESCRIBED ABOVE

HAS AND SHALL BE CONDUCTED IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF CHAPTER 1301:7-9 OF THE ADMINISTRATIVE CODE , INCLUDING BUT NOT LIMITED TO RULES 1301:7-9-16 AND 1301:7-9-17 OF THE ADMINISTRATIVE CODE."

_____	_____	_____
OWNER/OPERATOR'S NAME (TYPED OR PRINTED)	SIGNATURE	DATE

SUBSCRIBED AND DULY SWORN BEFORE ME ACCORDING TO LAW, BY THE ABOVE NAMED APPLICANT

THIS _____ DAY OF _____19___ AT _____ ,

COUNTY OF _____ AND STATE OF _____

SIGNATURE OF NOTARY PUBLIC _____

OFFICIAL TITLE _____

Appendix VII

Laboratory Analytical Results

And

Chain of Custody Form

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Harza Environmental Services, Inc.
233 South Wacker Dr., 8th Floor
Chicago, IL 60606
Attention: Ramesh

Project: 88th RSC USTs Removal

Enclosed are the results from 3 soil samples and 1 water sample received at Great Lakes Analytical on December 8, 1998. The requested analyses are listed below:

SAMPLE#	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
8120608	Soil, OH037-TPH1-1298	12/2/98	TPH, EPA 418.1 VOC, EPA 8260
8120609	Soil, OH037-TPH2-1398	12/2/98	TPH, EPA 418.1 VOC, EPA 8260
8120610	Soil, OH037-TPHEX- 1298	12/2/98	TPH, EPA 418.1 VOC, EPA 8260
8120611	Water: TRIP Blank	12/2/98	VOC, EPA 8260

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Harza Environmental Services, Inc.	Client Project ID:	88th RSC USTs Removal	Sampled:	Dec 2, 1998
233 South Wacker Dr., 8th Floor	Matrix Descript:	Soil	Received:	Dec 3, 1998
Chicago, IL 60606	Analysis Method:	EPA 418.1 (I.R. with clean-up)		
Attention: Ramesh	First Sample #:	812-0608	Analyzed:	Dec 8, 1998
			Reported:	Dec 8, 1998

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Sample Number	Sample Description	Petroleum Oil mg/kg (ppm)
812-0608	OH037-TPH1-1298	N.D.
812-0609	OH037-TPH2-1398	N.D.
812-0610	OH037-TPHEX-1298	N.D.

Detection Limits:	1.0

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Accreditations/Certifications: Delaware IL 069; Illinois EPA-100261; New Jersey DEP-54001; New York DOH-11487
Tennessee DOH-02804; Tennessee DEC; USACE; Virginia 00164; Wisconsin DNR-999917160

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Harza Environmental Services, Inc.
233 South Wacker Dr., 8th Floor
Chicago, IL 60606
Attention: Ramesh

Client Project ID: 88th RSC USTs Removal
Sample Descript: Soil: OH037-VOC1-1298
Analysis Method: EPA 8260
Lab Number: 812-0608

Sampled: Dec 2, 1998
Received: Dec 3, 1998
Analyzed: Dec 4, 1998
Reported: Dec 8, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acetone	25	N.D.
Benzene	5.0	N.D.
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chlorodibromomethane	5.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D
1,1-Dichloroethene	5.0	N.D
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D
1,2-Dichloropropane	5.0	N.D.
cis 1,3-Dichloropropene	5.0	N.D
trans 1,3-Dichloropropene	5.0	N.D
Ethylbenzene	5.0	N.D.
2-Hexanone	10	N.D
Methylene chloride	5.0	46A
4-Methyl-2-pentanone	10	N.D
Styrene	5.0	N.D
1,1,2,2-Tetrachloroethane	5.0	N.D
Tetrachloroethene	5.0	N.D
Toluene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D
1,1,2-Trichloroethane	5.0	N.D
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	10	N.D
Vinyl chloride	5.0	N.D
Total Xylenes	5.0	N.D

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Please Note
A = Laboratory artifact - concentrations found of this analyte are characteristic of laboratory artifact
The internal standard recovery was outside control limits.

8120608 hes <2>

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.corn
(847) 808-7766 FAX (847) 808-7772

Harza Environmental Services, Inc.	Client Project ID:	88th RSC USTs Removal	Sampled:	Dec 2, 1998
233 South Wacker Dr., 8th Floor	Sample Descript:	Soil: OH037-VOC2-1298	Received:	Dec 3, 1998
Chicago, IL 60606	Analysis Method:	EPA 8260		
Attention: Ramesh	Lab Number:	812-0609	Analyzed:	Dec 4, 1998
			Reported:	Dec 8, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acetone	25	N.D.
Benzene	5.0	N.D.
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chlorodibromomethane	5.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis 1,3-Dichloropropene	5.0	N.D.
trans 1,3-Dichloropropene	5.0	N.D.
Ethylbenzene	5.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	5.0	49A
4-Methyl-2-pentanone	10	N.D.
Styrene	5.0	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
Toluene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	10	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Please Note
A = Laboratory artifact - concentrations found of this analyte are characteristic of laboratory artifact
The internal standard recovery was outside control limits.

8120608 hes <3>

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Harza Environmental Services, Inc.
233 South Wacker Dr., 8th Floor
Chicago, IL 60606
Attention: Ramesh

Client Project ID: 88th RSC USTs Removal
Sample Descript: Soil: OH037-VOCEX-1298
Analysis Method: EPA 8260
Lab Number: 812-0610

Sampled: Dec 2, 1998
Received: Dec 3, 1998
Analyzed: Dec 4, 1998
Reported: Dec 8, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acetone	25	N.D.
Benzene	5.0	N.D.
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chlorodibromomethane	5.0	N.D.
Chloroethane	5.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis 1,3-Dichloropropene	5.0	N.D.
trans 1,3-Dichloropropene	5.0	N.D.
Ethylbenzene	5.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	5.0	50A
4-Methyl-2-pentanone	10	N.D.
Styrene	5.0	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
Toluene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl acetate	10	N.D.
Vinyl chloride	5.0	N.D.
Total Xylenes	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Please Note
A = Laboratory artifact - concentrations found of this analyte are characteristic of laboratory artifact.
The internal standard recovery was outside control limits.

8120608 hes <4>

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Harza Environmental Services, Inc.	Client Project ID:	88th RSC USTs Removal	Sampled:	Dec 2, 1998
233 South Wacker Dr., 8th Floor	Sample Descript:	Water: TRIP Blank	Received:	Dec 3, 1998
Chicago, IL 60606	Analysis Method:	EPA 8260		
Attention: Ramesh	Lab Number:	812-0611	Analyzed:	Dec 7, 1998
			Reported:	Dec 8, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

HARZA Consulting Engineers and Scientists

SEARS TOWER • 233 South Wacker Drive • Chicago, Illinois 60606 6392 Tel (312) 831-3800 • Fax (312) 831 3999 • Telex: 25-3540

Nº 356

CHAIN OF CUSTODY RECORD

SITE: 88TH RSC USTs REMOVAL PROJECT
USARC, MANSFIELD, OH

SAMPLER: (Signature) K-Lamarsh Kerr

PROJECT No. 5644GT

FIELD SAMPLE NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION	No. OF CONTAINERS	VOCs 8240	TPH 418.1	REMARKS
OH037-VOC1-1298	12/2/98	1:20		X	East Bottom of UST	1	X		8120608
OH037-TPH1-1298		1:20			East Bottom of UST	1		X	
OH037-VOC2-1299		1:33			West Bottom of UST	1	X		8120609
OH037-TPH2-1299		1:33			West Bottom of UST	1		X	
OH037-VOCNX-1298		1:47			North Side of Excavated Pile	1	X		8120610
OH037-TPHNX-1298		1:47			North Side of Excavated Pile	1		X	
TRIP BLANK	Lab Prepared	NA			Lab Prepared Sample	1	X		8120611

PARAMETERS

COOLER No.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
K-Lamarsh Kerr	12/2/98	17:00	FEDEX	FEDEX	12/2/98	17:30	Doug 12/3

Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time	Remarks:
						FEDEX SHIPPING # 804640332825

GREAT LAKES ANALYTICAL

CHAIN OF CUSTODY REPORT

Sub to GLA

1380 Busch Parkway
Buffalo Grove, IL 60089-4505
(847) 808-7766
FAX (847) 808-7772

20725 Watertown Road
Brookfield, WI 53501
(414) 798-1030
FAX (414) 798-1066

Client: GREAT LAKES ANALYTICAL
Address: 1380 BUSCH PARKWAY BUFFALO GROVE, IL 60089-4505

Bill To:
Address:

TAT: 5 DAY (4 DAY) 3 DAY 2 DAY 1 DAY < 24 HRS
DATE RESULTS NEEDED: 12/10
TEMPERATURE UPON RECEIPT:
AIR BILL NO:

Report to: IRA
Phone #: ( )
Fax #: ( )

State & Program:
Phone #: ( )
Fax #: ( )

Project: Harza
Sampler:
PO/Quote #: SUB-0535

	FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	PRESERVATIVES	NO. CONTAINERS	TYPE CONTAINERS	418.1	SAMPLE CONTROL: CRACKED/BROKEN	SAMPLE CONTROL: IMPROPERLY SEALED	SAMPLE CONTROL: GOOD CONDITION	LABORATORY ID NUMBER
1	8120608	12/2		Soil		1	402	✓				
2	8120609					1		✓				
3	8120610					1		✓				
4												
5												
6												
7												
8												
9												
10												

RELINQUISHED 12/3 | RECEIVED | RELINQUISHED | RECEIVED

RELINQUISHED | RECEIVED | RELINQUISHED | RECEIVED

COMMENTS:

PAGE OF

JG958198

FedEx USA Airbill

FedEx Tracking Number: 804640332825

Form ID No.: 0210

SPG13

Sender's Copy

1 From (please print and press hard)

Date: 12/2/98 Sender's FedEx Account Number: 0606-1577-2

Sender's Name: RAMESH KANASAREDDY Phone: (312) 831-3000

Company: HARZA ENGINEERING COMPANY

Address: 233 S WACKER DR FL 8

Dept/Floor/Suite/Room:

City: CHICAGO State: IL ZIP: 60606

2 Your Internal Billing Reference Information (Optional) (First 24 characters will appear on invoice)

5644 GJ

3 To (please print and press hard)

Recipient's Name: IAN GRASKE Phone: (847) 808-7766

Company: GREAT LAKES ANALYTICAL

Address: 1380 BUSCH PARKWAY (To "HOLD" at FedEx location, print FedEx address here) Dept/Floor/Suite/Room:

☐ Check here if residence (Extra charge applies for FedEx Express Saver)

City: BUFFALO GROVE State: IL ZIP: 60089

For HOLD at FedEx Location check here

☐ Hold Weekday (Not available with FedEx First Overnight)

☐ Hold Saturday (Not available at all locations) (Available for FedEx Priority Overnight and FedEx 2Day only)

For WEEKEND Delivery check here (Extra charge. Not available for some areas)

☐ Saturday Delivery (Available for FedEx Priority Overnight and FedEx 2Day only)

☐ NEW Sunday Delivery (Available for FedEx Priority Overnight only)

4a Express Package Service *Packages under 150 lbs.* Delivery commitment may be later in some areas

☑ FedEx Priority Overnight (Next business morning)

☐ FedEx Standard Overnight (Next business afternoon)

☐ FedEx First Overnight (Earliest next business morning delivery to select locations) (Highest rate)

☐ FedEx 2Day (Second business day)

☐ FedEx Express Saver (Third business day)

FedEx Letter Rate not available. Minimum charge: One pound rate

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas

☐ FedEx Overnight Freight (Next business day)

☐ FedEx 2Day Freight (Second business day)

☐ FedEx Express Saver Freight (Up to 3 business days)

(Call for delivery schedule. See back for detailed descriptions of freight services.)

5 Packaging

☐ FedEx Letter ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube ☑ Other Pkg

Declared value limit $500

6 Special Handling (One box must be checked)

Does this shipment contain dangerous goods?*

☐ No ☐ Yes (As per attached Shipper's Declaration) ☐ Yes (Shipper's Declaration not required)

☐ Dry Ice (Dry Ice, 9, UN 1845) x kg

☐ Cargo Aircraft Only

*Dangerous Goods cannot be shipped in FedEx packaging.

7 Payment

Bill to: ☑ Sender (Account No. in Section 1 will be billed) ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

(Enter FedEx Account No. or Credit Card No. below)

FedEx Account No:

Credit Card No: Exp Date:

Total Packages	Total Weight	Total Declared Value*	Total Charges
1	32.0	$ .00	$

*When declaring a value higher than $100 per shipment, you pay an additional charge. See SERVICE CONDITIONS, DECLARED VALUE, AND LIMIT OF LIABILITY section for further information.

8 Release Signature

K. Lauch Kev

Your signature authorizes Federal Express to deliver this shipment without obtaining a signature and agrees to indemnify and hold harmless Federal Express from any resulting claims.

321

Rev. Date 12/97
Part #153L
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Service Conditions, Declared Value, and Limit of Liability – By using this Airbill you agree to the service conditions in our current Service Guide or U.S. Government Service Guide. Both are available on request. SEE BACK OF SENDER'S COPY OF THIS AIRBILL FOR INFORMATION AND ADDITIONAL TERMS. We will not be responsible for any claim in excess of $100 per package whether the result of loss, damage, or delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, and document your actual loss in a timely manner. Your right to recover from us for any loss includes intrinsic value of the package, loss of sales, interest, profit, attorney's fees, costs, and other forms of damage, whether direct, incidental, consequential, or special, and is limited to the greater of $100 or the declared value but cannot exceed actual documented loss. The maximum declared value for any FedEx Letter and FedEx Pak is $500. Federal Express may, upon your request, and with some limitations, refund all transportation charges paid. See the FedEx Service Guide for further details.

Questions?
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005227889 9

RETAIN THIS COPY FOR YOUR RECORDS

DEPARTMENT OF THE ARMY
HEADQUARTERS, 88TH REGIONAL SUPPORT COMMAND
506 ROEDER CIRCLE
FORT SNELLING, MINNESOTA 55111-4009

REPLY TO
ATTENTION OF

AFRC-CMN-EN (200) September 24, 1998

MEMORANDUM FOR Ohio Bureau of Underground Storage Tanks
ATTN: James Johnson, 6606 Tussing Road – P.O. Box 687
Reynoldsburg, OH 43068-9009

SUBJECT: Registration for Underground Storage Tanks (USTs) in Ohio

1. Attached are five UST registration forms for separate Army Reserve Centers in Ohio. The Reserve Centers are located in Akron, Bellaire, Mansfield, Sharonville, and Warrensville Heights.

2. Please forward the tank registration numbers to me after the registration forms have been processed. If you have any questions about the information that I have provided on the registration forms, please do not hesitate to contact me at 1-800-843-2769 ext. 3821.

5 Encls

Kurt Zacharias
Environmental Protection Specialist

REGISTRATION FOR UNDERGROUND STORAGE TANKS	FEE SCHEDULE
BUREAU OF UNDERGROUND STORAGE TANKS 6606 TUSSING ROAD - P O. BOX 687 REYNOLDSBURG, OHIO 43068-9009	1989: $20.00 PER TANK OTHER YEARS: $25.00 PER TANK

NEW AMENDED CHANGE IN OWNERSHIP ANNUAL RENEWAL (CIRCLE ONE)

Conditions Requiring Registration of an UST

1. Administrative Code Section 1301:7-9-04(D) requires that any person to whom ownership of any UST is transferred shall, within 30 days of the transfer, submit a transfer of UST registration application to the Fire Marshal for each location where an UST subject to the transfer is located. The transfer of ownership fee is $25.00 per UST.
2. Any owner who installs an UST system shall, within thirty days of bringing such UST system into service, submit the registration application to the Fire Marshal along with appropriate fees.
3. If an UST system is installed at a location for which there is a current registration, the owner of the UST system must submit an amended registration along with the appropriate fees to the Fire Marshal within thirty days of bringing the system into service.
4. If an UST system was taken out of service after January 1, 1974, not in compliance with the Ohio Fire Code, the tank must be registered.

Tank Registration Application Fee:

Each tank registration application must be accompanied by a fee made payable to: "Treasurer, State of Ohio".
NOTE: Federal, State and political subdivisions are exempt from paying the fee but they must comply with all other requirements of the underground tank registration rule, including the completion of this form.

When Can A Tank Registration Be Denied?

The State Fire Marshal shall deny a tank registration for the following reason:

1. The application does not provide all the information indicated on the prescribed form.
2. The owner did not submit the tank registration fee required.

Exempt USTs

1. Farm and residential tanks holding 1,100 gallons or less of motor fuel used for non-commercial purposes.
2. Tanks storing heating oil and kerosene for consumptive use on the premises where stored.
3. Underground storage tanks holding 110 gallons or less.
4. Septic tanks and systems for collecting storm water and wastewater.

Penalties

Any person who knowingly fails to register or submits false information may be subject to a civil penalty not to exceed $10,000.00 for each day the registration is late or for which false information is submitted. Any person who knowingly fails to register or submits false information may be subject to conviction of an unclassified felony with a maximum fine of $25,000.00 and maximum imprisonment of 14 months.

I. OWNERSHIP OF TANKS	II. LOCATION OF TANKS
U. S. ARMY RESERVE 88th REGIONAL SUPPORT COMMAND	556 ROY CLIFTON SCOUTEN USARC 271 HEDGES STREET MANSFIELD, OH 44903-2697

NUMBER OF TANKS ONE

III. TYPE OF OWNER	IV.
[X] Federal Government [ ] Commercial [ ] State Government [ ] Private [ ] Local Government	THIS SPACE INTENTIONALLY LEFT BLANK

V. TYPE OF FACILITY

Select the Appropriate Facility Description

____ Gas Station	____ Railroad	____ Commercial	____ Farm
____ Petroleum Distributor	____ Local Government	____ Industrial	____ Residential
____ Air Taxi (Airline)	____ State Government	____ Contractor	____ Other (Explain)
____ Aircraft Owner	____ Federal-Non-Military	____ Trucking/Transport	_____
____ Auto Dealership	X Federal-Military	____ Utilities	_____

VI. CONTACT PERSON IN CHARGE OF TANKS

Name: KURT ZACHARIAS Job Title: ENVIRONMENTAL SPECIALIST

Address: 506 ROEDER CIRCLE City/State/Zip: FT. SNELLING, MN 55111-4009

Phone (include area code): (612) 713-3821

VII. FINANCIAL RESPONSIBILITY

Petroleum UST Release Compensation Board

CERTIFICATE NUMBER: _____

CURRENT DEDUCTIBLE AMOUNT: _____

Mechanism Used to Cover Deductible Amount (Check All That Apply)

- [ ] Self Insured
- [ ] Insurance (Commercial)
- [ ] Risk Retention Group
- [ ] Guarantee & Standby Trust
- [ ] Surety Bond & Standby Trust
- [ ] Letter of Credit & Standby Trust
- [ ] Trust Fund

PROVIDER'S NAME: _____

VIII. CERTIFICATION (Read and sign after completing all sections)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name of Owner: U.S. ARMY RESERVE / 88th RSC (MUST TYPE OR PRINT) Official Title: N/A

Signature: N/A Date: N/A

OR

Authorized Representative: KURT ZACHARIAS (MUST TYPE OR PRINT) Official Title: ENVTL. SPECIALIST

Signature: [signature] Date: 24 SEP 98

IX. DESCRIPTION OF UNDERGROUND STORAGE TANKS (Complete for each tank at this location)						
Tank Identification Number		Tank No 1	Tank No	Tank No	Tank No	Tank No
1. Status of Tank (mark only one)	Currently in Use	X				
	Temporarily Out of Use					
2. Date of Installation (mo/year)		UNK				
3. Estimated Total capacity (gallons)		500				
4. Material of Construction (mark all that apply)						
Exterior:	Asphalt Coated or Bare Steel	X				
	Cathodically Protected Steel					
	Epoxy Coated Steel					
	Composite (Steel with Fiberglass)					
	Fiberglass Reinforced Plastic					
Interior:	Lined Interior					
	Double Walled					
	Polyethylene Tank Jacket					
	Concrete					
	Excavation Liner					
	Unknown	X				
	Other (please specify)					
	Has tank been repaired?					
5. Piping (Material) (Mark all that apply)						
	Bare Steel	X				
	Galvanized Steel					
	Fiberglass Reinforced Plastic					
	Copper					
	Cathodically Protected					
	Double Walled					
	Secondary Containment					
	Unknown					
	Other, please specify					

Tank Identification Number	Tank No 1	Tank No	Tank No	Tank No	Tank No
6. Piping (type) (mark all that apply)					
Suction: no valve at tank					
Suction: valve at tank					
Pressure					
Gravity Feed	X				
Has piping been repaired?					
7. Substance Currently or Last Stored in Greatest Quantity by Volume					
Gasoline					
Diesel					
Gasohol					
Kerosene					
Heating Oil					
Used Oil	X				
Other (please specify)					
Hazardous Substance					
CERCLA name and/or CAS Number					
CAS Number					
Mixture of Substances					
(Please specify)					
X. TANKS OUT OF USE					
1. Closing of Tank					
A. Estimated date last used (mo./day/year)					
B. Date tank was removed (mo./day/year)					
C. Date tank was closed in ground and filled with inert material					
D. Describe inert material					
2. Site Assessment Completed					
Evidence of a leak detected					

XI. LEAK DETECTION METHODS

Tank Identification Number	Tank No 1		Tank No		Tank No		Tank No		Tank No	
1. Release Detection (Mark all that apply)	TANK	PIPING	TANK	PIPING	TANK	PIPING	TANK	PIPING	TANK	PIPING
A. Manual tank gauging	X									
B. Tank tightness testing										
C. Inventory controls										
D. Automatic tank gauging										
E. Vapor monitoring										
F. Groundwater monitoring										
G. Interstitial monitoring double walled tank/piping										
H. Interstitial monitoring/secondary containment										
I. Automatic line leak detectors										
J. Line tightness testing										
K. Other method allowed by state agency-specify										
2. Spill and Overfill Protection										
A. Overfill device installed										
B. Spill device installed										

Appendix E

Regulatory Database Search Reports

The EDR Radius Map
with GeoCheck®

SSG Roy Clifton Scouten USARC
271 HEDGES STREET
MANSFIELD, OH 44902

Inquiry Number: 01714247.98r

July 12, 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

TABLE OF CONTENTS

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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

271 HEDGES STREET
MANSFIELD, OH 44902

COORDINATES

Latitude (North):	40.751000 - 40° 45' 3.6''
Longitude (West):	82.509900 - 82° 30' 35.6''
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	372532.8
UTM Y (Meters):	4512001.5
Elevation:	1286 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	40082-G5 MANSFIELD NORTH, OH
Most Recent Revision:	1982
East Map:	40082-G4 PAVONIA, OH
Most Recent Revision:	1982
Southeast Map:	40082-F4 LUCAS, OH
Most Recent Revision:	1982
South Map:	40082-F5 MANSFIELD SOUTH, OH
Most Recent Revision:	1982

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:

Site	Database(s)	EPA ID
US ARC SCOUTEN 271 HEDGES ST MANSFIELD, OH 44903	RCRA-SQG FINDS	OH9210090248
556 ROY CLIFTON SCOUTEN USARC 271 HEDGES ST MANSFIELD, OH 44903	LUST Facility Status: Inactive FR Status: No Further Action letter issued	N/A

EXECUTIVE SUMMARY

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
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
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	This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.
TOWNGAS	DERR Towngas Database
SWF/LF	Licensed Solid Waste Facilities
HIST LF	Old Solid Waste Landfill
UNREG LTANKS	Ohio Leaking UST File
UST	Underground Storage Tank Tank File
OH Spills	Emergency Response Database
ENG CONTROLS	Sites with Engineering Controls
INST CONTROL	Sites with Institutional Engineering Controls
VCP	Voluntary Action Program Sites
DRYCLEANERS	Drycleaner Facility Listing
BROWNFIELDS	Ohio Brownfield Inventory

EXECUTIVE SUMMARY

CDL Clandestine Drug Lab Locations
NPDES NPDES General Permit List
USD Urban Setting Designation Sites
HIST INST CONTROLS Institutional Controls Database
HIST ENG CONTROLS Operation & Maintenance Agreements Database
HIST USD Urban Setting Designations Database

TRIBAL RECORDS

INDIAN RESERV Indian Reservations

EDR PROPRIETARY RECORDS

EDR Historical Auto Stations EDR 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.

FEDERAL RECORDS

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 03/15/2006 has revealed that there are 2 CORRACTS sites within approximately 1 mile of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
MORITZ INC	***400 PARK AVE E REAR***	***1/2 - 1 NE***	***12***	***10***
MANSFIELD PRODUCT COMPANY	***246 EAST 4TH STREET***	***1/2 - 1 NNE***	***13***	***21***

STATE AND LOCAL RECORDS

DERR: The DERR database is an index of sites for which Ohio EPA maintains files. It includes sites with known or suspected contamination, but a site's inclusion in the database does not mean that it is now or has ever been contaminated.

A review of the DERR list, as provided by EDR, and dated 03/14/2006 has revealed that there are 3

DERR sites within approximately 1 mile of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
MANSFIELD PRODUCT COMPANY	***246 EAST 4TH STREET***	***1/2 - 1 NNE***	***13***	***21***
MANSFIELD GRAPHICS INC	***127 N WALNUT ST***	***1/2 - 1 NNW***	***15***	***24***
CII TECHNOLOGIES HARTMAN DIV	***175 N DIAMOND ST***	***1/2 - 1 NNW***	***16***	***30***
Activity: VAP				

OH MSL: Ohio EPA no longer maintains or publishes the MSL, which was a list of sites with known or suspected contamination. Please be advised that this report does not constitute a determination that any site identified in the report is or may be contaminated.

A review of the MSL list, as provided by EDR, and dated 03/01/1999 has revealed that there is 1 MSL site within approximately 1 mile of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
MANSFIELD PRODUCT COMPANY	***246 EAST 4TH STREET***	***1/2 - 1 NNE***	***13***	***21***

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Commerce Division of State Fire Marshal's List of Reported Petroleum Underground Storage Tank Release Incidents.

A review of the LUST list, as provided by EDR, and dated 03/15/2006 has revealed that there are 9 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
RICHLAND NEWHOPE CENTER	314 CLEVELAND AVE	1/8 - 1/4 SE	3	6
Facility Status: Inactive FR Status: No Further Action letter issued				
ATTENTION CENTER	***411 S DIAMOND***	***1/8 - 1/4 S***	***4***	***7***
Facility Status: Active FR Status: Deficiency				
MANSFIELD CEMETERY ASSOC	389 ALTAMONT AVE	1/4 - 1/2 SW	5	7
Facility Status: Inactive FR Status: No Further Action letter issued				
AP 1943	***128 LEXINGTON***	***1/4 - 1/2 W***	***9***	***9***
Facility Status: Inactive FR Status: No Further Action letter issued				

Lower Elevation	Address	Dist / Dir	Map ID	Page
FORMER SERVICE STATION	199 S MAIN ST	1/4 - 1/2 WNW	6	8
Facility Status: Inactive FR Status: No Further Action letter issued				
BP OIL CO. #06544	102 S MAIN	1/4 - 1/2 NW	7	8
Facility Status: Inactive FR Status: No Further Action letter issued				
SALTZGABER DRILLING CO	57 S FRANKLIN AVE	1/4 - 1/2 NNW	8	8
Facility Status: Active FR Status: No closure report received letter sent				
IDEAL ELECTRIC COMPANY	330 E FIRST ST	1/4 - 1/2 ENE	10	9
Facility Status: Inactive FR Status: No Further Action letter issued				
A. NICKLES BAKERY, INC.	194 PARK AVE E	1/4 - 1/2 N	11	10
Facility Status: Inactive FR Status: No Further Action letter issued				

EXECUTIVE SUMMARY

ARCHIVE UST: Underground storage tank records that have been removed from the Underground Storage Tank database.

A review of the ARCHIVE UST list, as provided by EDR, and dated 03/15/2006 has revealed that there is 1 ARCHIVE UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
ATTENTION CENTER	***411 S DIAMOND***	***1/8 - 1/4 S***	***4***	***7***

EDR PROPRIETARY RECORDS

EDR 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.

A review of the Manufactured Gas Plants list, as provided by EDR, has revealed that there is 1 Manufactured Gas Plants site within approximately 1 mile of the target property.

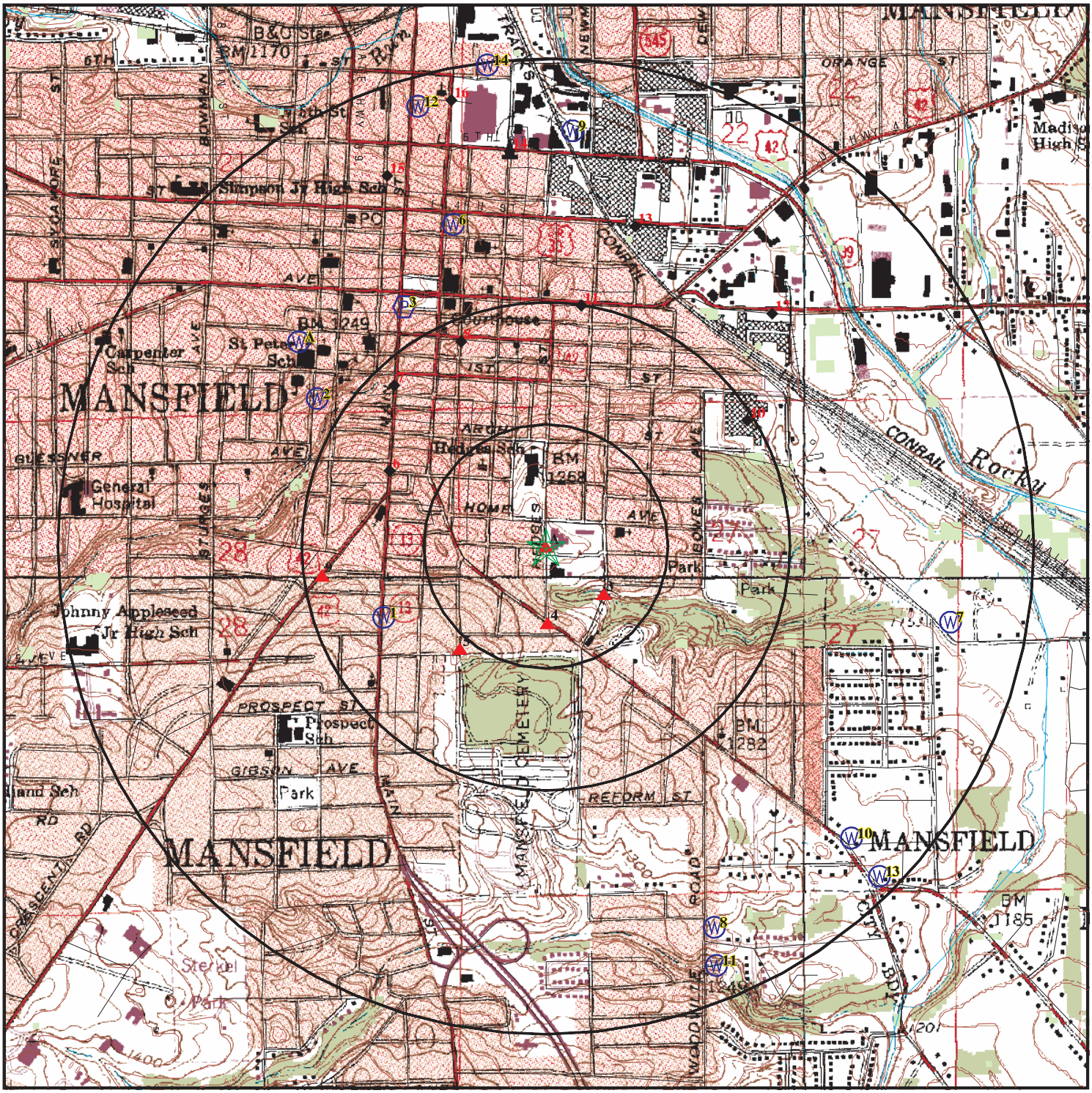
Lower Elevation	Address	Dist / Dir	Map ID	Page
MANSFIELD GAS LIGHT COMPANY	EAST FIFTH AND SOUTH AD	1/2 - 1 N	14	24

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
RT 309 BP	LUST, ARCHIVE UST
CLL TECHNOLOGIES HARTMAN DIV	INST CONTROL
LINCOLN FIELDS COOP WATER ASSN DUKE WELL	CERCLIS, FINDS, DERR
CLEARFORK MARINA	LUST
MUSICK'S SERV STATION MAINT,INC.	LUST
MIFFLIN TWP FIRE DEPT	LUST
FORMER TEXECO	LUST
CHARLES MILL MARINA	LUST
JOHN F. HARING	LUST

OVERVIEW MAP - 01714247.98r

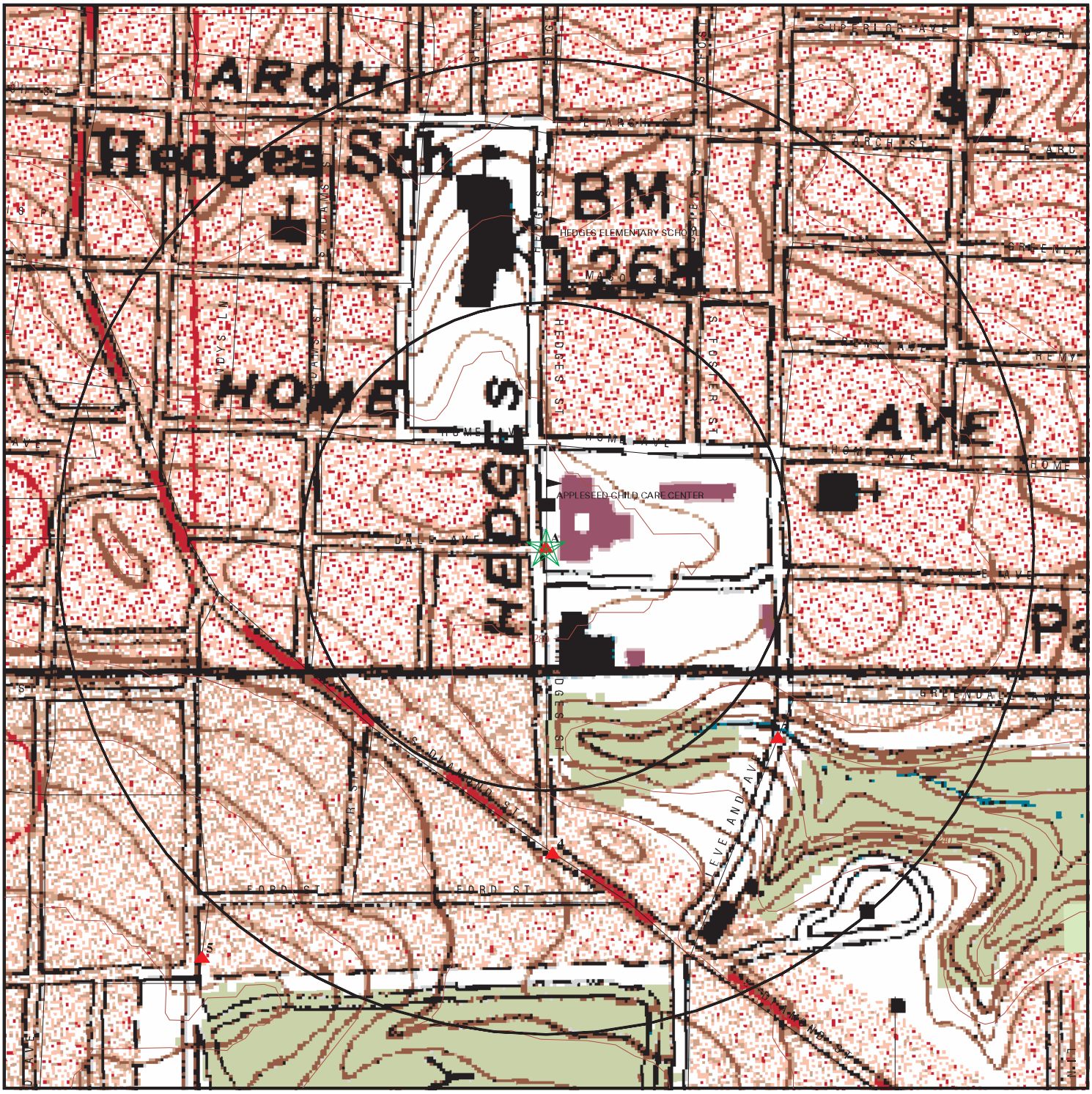


- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines
- National Wetland Inventory
- State Wetlands

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: SSG Roy Clifton Scouten USARC ADDRESS: 271 HEDGES STREET MANSFIELD OH 44902 LAT/LONG: 40.7510 / 82.5099	CLIENT: CH2M Hill CONTACT: Mary Beth Jacques INQUIRY #: 01714247.98r DATE: July 12, 2006

DETAIL MAP - 01714247.98r



- 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
- National Wetland Inventory
- State Wetlands

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:	SSG Roy Clifton Scouten USARC	CLIENT:	CH2M Hill
ADDRESS:	271 HEDGES STREET MANSFIELD OH 44902	CONTACT:	Mary Beth Jacques
LAT/LONG:	40.7510 / 82.5099	INQUIRY #:	01714247.98r
		DATE:	July 12, 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
FEDERAL RECORDS								
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	2	NR	2
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
STATE AND LOCAL RECORDS								
State Haz. Waste		N/A	N/A	N/A	N/A	N/A	N/A	N/A
DERR		1.000	0	0	0	3	NR	3
TOWNGAS		1.000	0	0	0	0	NR	0
MSL		1.000	0	0	0	1	NR	1
State Landfill		0.500	0	0	0	NR	NR	0
HIST LF		0.500	0	0	0	NR	NR	0
LUST	X	0.500	0	2	7	NR	NR	9
UNREG LTANKS		0.500	0	0	0	NR	NR	0
UST		0.250	0	0	NR	NR	NR	0
ARCHIVE UST		0.250	0	1	NR	NR	NR	1
OH Spills		TP	NR	NR	NR	NR	NR	0
ENG CONTROLS		0.500	0	0	0	NR	NR	0
INST CONTROL		0.500	0	0	0	NR	NR	0
VCP		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
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
BROWNFIELDS		0.500	0	0	0	NR	NR	0
CDL		TP	NR	NR	NR	NR	NR	0
NPDES		TP	NR	NR	NR	NR	NR	0
USD		0.500	0	0	0	NR	NR	0
HIST INST CONTROLS		0.500	0	0	0	NR	NR	0
HIST ENG CONTROLS		0.500	0	0	0	NR	NR	0
HIST USD		0.500	0	0	0	NR	NR	0
TRIBAL RECORDS								
INDIAN RESERV		1.000	0	0	0	0	NR	0
EDR PROPRIETARY RECORDS								
Manufactured Gas Plants		1.000	0	0	0	1	NR	1
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

N/A = This State does not maintain a SHWS list. See the Federal CERCLIS list.

A1 **US ARC SCOUTEN** **RCRA-SQG** **1000451299**
Target **271 HEDGES ST** **FINDS** **OH9210090248**
Property **MANSFIELD, OH 44903**

Site 1 of 2 in cluster A

Actual:
1286 ft.

RCRAInfo:
Owner: 83D ARCOM HG
(614) 692-1936
EPA ID: OH9210090248

Contact: SSG CURTIN
(419) 525-1893

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

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.

A2 **556 ROY CLIFTON SCOUTEN USARC** **LUST** **S104973661**
Target **271 HEDGES ST** **N/A**
Property **MANSFIELD, OH 44903**

Site 2 of 2 in cluster A

Actual:
1286 ft.

LUST:
Owner: UNITED STATES ARMY RESERVE
LTF Status: 6 Closure of regulated UST
Release Number: 70002643-N00001
Owner Address: 450 PENNSYLVANIA AVE
DELAWARE, OH 43015
Facility Status: Inactive
FR Status: No Further Action letter issued
Old Facility Id: 702643
Former Lust Release Number: 709027600.0
Release Date: Not reported

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3 **RICHLAND NEWHOPE CENTER** **LUST** **S104778739**
SE **314 CLEVELAND AVE** **N/A**
1/8-1/4 **MANSFIELD, OH 44903**
812 ft.

Relative:
Equal

Actual:
1286 ft.

RICHLAND NEWHOPE CENTER (Continued) **S104778739**

LUST:
Owner: RICHLAND NEWHOPE CENTER
LTF Status: 6 Closure of regulated UST
Release Number: 70008461-N00001
Owner Address: 314 CLEVELAND AVE
MANSFIELD, OH 44903
Facility Status: Inactive
FR Status: No Further Action letter issued
Old Facility Id: 708461
Former Lust Release Number: 704014900.0
Release Date: Not reported

---

4 **ATTENTION CENTER** **LUST** **U003914354**
South **411 S DIAMOND** **ARCHIVE UST** **N/A**
1/8-1/4 **MANSFIELD, OH 44902**
827 ft.

Relative: Equal

Actual: 1286 ft.

LUST:
Owner: RICHLAND COUNTY COMMISSIONERS
LTF Status: 6 Closure of regulated UST
Release Number: 70010130-N00001
Owner Address: 50 PARK AVE E
MANSFIELD, OH 44902
Facility Status: Active
FR Status: Deficiency
Old Facility Id: Not reported
Former Lust Release Number: Not reported
Release Date: 2005-06-15 00:00:00

UST ARCHIVE:
Facility ID: 70010130 Tank ID: T00001
Owner: RICHLAND COUNTY COMMISSIONERS
Owner Address: 50 PARK AVE E
MANSFIELD, OH 44902
Capacity: 500 Tank Status: Currently In Use
Install Date: 1976-11-01 00:00:00
Content: Diesel
Tank Type: Bare Steel

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5 **MANSFIELD CEMETERY ASSOC** **LUST** **S104778720**
SW **389 ALTAMONT AVE** **N/A**
1/4-1/2 **MANSFIELD, OH 44902**
1447 ft.

Relative: Equal

Actual: 1286 ft.

LUST:
Owner: MANSFIELD CEMETERY ASSOC
LTF Status: 1 SUS/CON from regulated UST
Release Number: 70002211-N00001
Owner Address: 389 ALTAMONT AVE
MANSFIELD, OH 44902
Facility Status: Inactive
FR Status: No Further Action letter issued
Old Facility Id: 702211
Former Lust Release Number: 705163501.0
Release Date: 1995-12-19 00:00:00

6
WNW
1/4-1/2
1877 ft.

FORMER SERVICE STATION
199 S MAIN ST
MANSFIELD, OH 44902

LUST

S105501985
N/A

Relative:
Lower

Actual:
1277 ft.

LUST:
Owner: FORMER SERVICE STATION
LTF Status: 6 Closure of regulated UST
Release Number: 70010031-N00001
Owner Address: 199 S MAIN ST
MANSFIELD, OH 44902
Facility Status: Inactive
FR Status: No Further Action letter issued
Old Facility Id: Not reported
Former Lust Release Number: 705141800.0
Release Date: Not reported

7
NW
1/4-1/2
2392 ft.

BP OIL CO. #06544
102 S MAIN
MANSFIELD, OH 44902

LUST

S104778710
N/A

Relative:
Lower

Actual:
1212 ft.

LUST:
Owner: SAM PATTERSON
LTF Status: 1 SUS/CON from regulated UST
Release Number: 70000396-N00001
Owner Address: P.O. BOX 6038
ARTESIA, CA 90702
Facility Status: Inactive
FR Status: No Further Action letter issued
Old Facility Id: 700396
Former Lust Release Number: 705084900.0
Release Date: 1995-06-26 00:00:00

8
NNW
1/4-1/2
2399 ft.

SALTZGABER DRILLING CO
57 S FRANKLIN AVE
MANSFIELD, OH 44903

LUST

S104269840
N/A

Relative:
Lower

Actual:
1201 ft.

LUST:
Owner: SALTZGABER DRILLING CO
LTF Status: 6 Closure of regulated UST
Release Number: 70010000-N00001
Owner Address: 57 S FRANKLIN AVE
MANSFIELD, OH 44903
Facility Status: Active
FR Status: No closure report received letter sent
Old Facility Id: Not reported
Former Lust Release Number: 701217100.0
Release Date: 1991-08-26 00:00:00

9
West
1/4-1/2
2439 ft.

AP 1943
128 LEXINGTON
MANSFIELD, OH 44906

LUST
UST

U000694143
N/A

Relative:
Higher

Actual:
1313 ft.

LUST:
Owner: TOM ABDALLAH
LTF Status: 6 Closure of regulated UST
Release Number: 70000386-N00001
Owner Address: 205 S MAIN ST
AKRON, OH 44308
Facility Status: Inactive
FR Status: No Further Action letter issued
Old Facility Id: 700386
Former Lust Release Number: 707002900.0
Release Date: Not reported

UST:

Facility ID:	70000386	Tank ID:	T00001
Owner:	NORTH COAST OIL INC		
Owner Address:	205 S MAIN ST AKRON, OH 44308		
Capacity:	12000	Tank Status:	Currently In Use
Install Date:	12/09/96		
Content:	Gasoline		
Tank Type:	Double Walled Fiberglass		
Facility ID:	70000386	Tank ID:	T00002
Owner:	NORTH COAST OIL INC		
Owner Address:	205 S MAIN ST AKRON, OH 44308		
Capacity:	12000	Tank Status:	Currently In Use
Install Date:	12/09/96		
Content:	Gasoline		
Tank Type:	Double Walled Fiberglass		
Facility ID:	70000386	Tank ID:	T00003
Owner:	NORTH COAST OIL INC		
Owner Address:	205 S MAIN ST AKRON, OH 44308		
Capacity:	1000	Tank Status:	Currently In Use
Install Date:	12/09/96		
Content:	Kerosene		
Tank Type:	Double Walled Fiberglass		

10
ENE
1/4-1/2
2573 ft.

IDEAL ELECTRIC COMPANY
330 E FIRST ST
MANSFIELD, OH 44902

LUST

S104259904
N/A

Relative:
Lower

Actual:
1171 ft.

LUST:
Owner: IDEAL ELECTRIC COMPANY
LTF Status: 6 Closure of regulated UST
Release Number: 70002017-N00001
Owner Address: 330 E FIRST ST
MANSFIELD, OH 44902
Facility Status: Inactive
FR Status: No Further Action letter issued
Old Facility Id: 702017
Former Lust Release Number: 705143500.0
Release Date: Not reported

11
North
1/4-1/2
2636 ft.

A. NICKLES BAKERY, INC.
194 PARK AVE E
MANSFIELD, OH 44902

LUST **S104778693**
N/A

Relative:
Lower

Actual:
1176 ft.

LUST:
Owner: A. NICKLES BAKERY, INC.
LTF Status: 6 Closure of regulated UST
Release Number: 70000220-N00001
Owner Address: 26 N MAIN ST
NAVARRE, OH 44662
Facility Status: Inactive
FR Status: No Further Action letter issued
Old Facility Id: 700220
Former Lust Release Number: 703256000.0
Release Date: Not reported

12
NE
1/2-1
3514 ft.

MORITZ INC
400 PARK AVE E REAR
MANSFIELD, OH 44905

RCRA-SQG **1000265033**
FINDS **OHD982218489**
RCRA-TSDF
CORRACTS

Relative:
Lower

Actual:
1143 ft.

CORRACTS Data:

EPA Id: OHD982218489
Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 03/31/1993
Corrective Action: CA075ME - CA Prioritization, Facility or area was assigned a medium corrective action priority
2002 NAICS Title: Not reported

RCRAInfo Corrective Action Summary:
Event: CA Prioritization, Facility or area was assigned a medium corrective action priority.
Event Date: 03/31/1993

RCRAInfo:
Owner: TONY BANDY
(419) 522-7802
EPA ID: OHD982218489

Contact: Not reported

Classification: TSDF
TSDF Activities: Not reported

Violation Status: Violations exist

Regulation Violated: 3745-66-47
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 12/29/2002
Actual Date Achieved Compliance: 02/23/2004

Regulation Violated: 3745-66-42
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 12/29/2002
Actual Date Achieved Compliance: 02/23/2004

Regulation Violated: 3745-66-43
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 12/29/2002
Actual Date Achieved Compliance: 02/23/2004

Regulation Violated: 3745-66-42 & 66-44

MORITZ INC (Continued) **1000265033**

Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 02/24/1997
Actual Date Achieved Compliance: 02/23/2004

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 03/10/1997
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/23/1997
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 11/30/1999
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 04/13/2001
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/13/2001
Penalty Type: Not reported

Regulation Violated: 3745-66-43 & 66-45
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 02/24/1997
Actual Date Achieved Compliance: 02/23/2004

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 03/10/1997
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/23/1997
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 11/30/1999
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 04/13/2001
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/13/2001
Penalty Type: Not reported

Regulation Violated: 3745-66-47
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 02/24/1997
Actual Date Achieved Compliance: 02/23/2004

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 03/10/1997
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/23/1997
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 11/30/1999
Penalty Type: Not reported

MORITZ INC (Continued) **1000265033**

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 04/13/2001
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/13/2001
Penalty Type: Not reported

Regulation Violated: 3745-66-42 & 66-44
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 10/23/1995
Actual Date Achieved Compliance: 02/23/2004

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 11/13/1995
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/23/1997
Penalty Type: Not reported

Regulation Violated: 3745-66-43 & 66-45
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 10/23/1995
Actual Date Achieved Compliance: 02/23/2004

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 11/13/1995
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/23/1997
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 04/13/2001
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/13/2001
Penalty Type: Not reported

Regulation Violated: 3745-66-47
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 10/23/1995
Actual Date Achieved Compliance: 02/23/2004

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 11/13/1995
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/23/1997
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 04/13/2001
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/13/2001
Penalty Type: Not reported

Regulation Violated: 3745-65-90(A)(B)
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS

MORITZ INC (Continued) **1000265033**

Date Violation Determined: 07/28/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 11/01/1993
Penalty Type: Not reported

Regulation Violated: 3745-65-91(A)(1)(a)
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 07/28/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 11/01/1993
Penalty Type: Not reported

Regulation Violated: 3745-65-91(C)
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 07/28/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 11/01/1993
Penalty Type: Not reported

Regulation Violated: 3745-65-91(A)(2)
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 07/28/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 11/01/1993
Penalty Type: Not reported

Regulation Violated: 3745-65-92(A)
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 07/28/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 11/01/1993
Penalty Type: Not reported

Regulation Violated: 3745-65-93(B) thru (F), 65-94
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 07/28/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 11/01/1993
Penalty Type: Not reported

Regulation Violated: 3745-65-75(F)
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 07/28/1993
Actual Date Achieved Compliance: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 11/01/1993
Penalty Type: Not reported

Regulation Violated: 3745-65-92(A) thru (E)
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 07/28/1993

MORITZ INC (Continued) **1000265033**

Actual Date Achieved Compliance: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 11/01/1993
Penalty Type: Not reported

Regulation Violated: 3745-66-43, 66-45, 66-47
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 11/18/1992
Actual Date Achieved Compliance: 02/23/2004

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 09/16/1993
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/23/1997
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 04/13/2001
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/13/2001
Penalty Type: Not reported

Regulation Violated: 3745-66-42 & 66-44
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 11/18/1992
Actual Date Achieved Compliance: 02/23/2004

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 09/16/1993
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/23/1997
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 04/13/2001
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/13/2001
Penalty Type: Not reported

Regulation Violated: 3745-52-11
Area of Violation: GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined: 10/14/1992
Actual Date Achieved Compliance: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 10/23/1992
Penalty Type: Not reported

Regulation Violated: 3745-52-34(C)
Area of Violation: GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined: 10/14/1992
Actual Date Achieved Compliance: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 10/23/1992
Penalty Type: Not reported

MORITZ INC (Continued) **1000265033**

Regulation Violated: 3745-65-15(A)(1)(2)
Area of Violation: TSD-GENERAL STANDARDS
Date Violation Determined: 10/14/1992
Actual Date Achieved Compliance: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 10/23/1992
Penalty Type: Not reported

Regulation Violated: 3745-65-17
Area of Violation: TSD-GENERAL STANDARDS
Date Violation Determined: 10/14/1992
Actual Date Achieved Compliance: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 10/23/1992
Penalty Type: Not reported

Regulation Violated: 3745-59-07(A)
Area of Violation: GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined: 10/14/1992
Actual Date Achieved Compliance: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 10/23/1992
Penalty Type: Not reported

Regulation Violated: 3745-59-07(A)(1)
Area of Violation: GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined: 10/14/1992
Actual Date Achieved Compliance: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 10/23/1992
Penalty Type: Not reported

Regulation Violated: 3745-66-73(A)
Area of Violation: GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined: 10/14/1992
Actual Date Achieved Compliance: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 10/23/1992
Penalty Type: Not reported

Regulation Violated: 3745-65-33(B)
Area of Violation: GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined: 10/14/1992
Actual Date Achieved Compliance: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 10/23/1992
Penalty Type: Not reported

Regulation Violated: 3745-65-33, 65-33(B)
Area of Violation: GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined: 10/14/1992
Actual Date Achieved Compliance: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 10/23/1992
Penalty Type: Not reported

Regulation Violated: Not reported

MORITZ INC (Continued) **1000265033**

Area of Violation: GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined: 10/29/1990
Actual Date Achieved Compliance: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 01/10/1991
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 10/31/1991
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 02/12/1992
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 06/19/1992
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-LAND BAN REQUIREMENTS
Date Violation Determined: 10/29/1990
Actual Date Achieved Compliance: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 01/10/1991
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 10/31/1991
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 02/12/1992
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 06/19/1992
Penalty Type: Not reported

Regulation Violated: 3745-52-34(D)(5)(b)
Area of Violation: GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined: 10/29/1990
Actual Date Achieved Compliance: 10/23/1992

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 01/10/1991
Penalty Type: Not reported

Regulation Violated: 3745-65-15
Area of Violation: TSD-GENERAL STANDARDS
Date Violation Determined: 10/29/1990
Actual Date Achieved Compliance: 10/04/1991

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 01/10/1991
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 10/31/1991
Penalty Type: Not reported

Regulation Violated: 3745-65-55
Area of Violation: TSD-CONTINGENCY PLAN REQUREMENTS

MORITZ INC (Continued) **1000265033**

Date Violation Determined: 10/29/1990
Actual Date Achieved Compliance: 06/19/1992

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 01/10/1991
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 10/31/1991
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 02/12/1992
Penalty Type: Not reported

Regulation Violated: 3745-65-51
Area of Violation: TSD-CONTINGENCY PLAN REQUREMENTS
Date Violation Determined: 10/29/1990
Actual Date Achieved Compliance: 06/19/1992

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 01/10/1991
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 10/31/1991
Penalty Type: Not reported

Regulation Violated: 3745-65-16
Area of Violation: TSD-GENERAL STANDARDS
Date Violation Determined: 10/29/1990
Actual Date Achieved Compliance: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 01/10/1991
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 10/31/1991
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 06/19/1992
Penalty Type: Not reported

Regulation Violated: 3745-65-13
Area of Violation: TSD-GENERAL STANDARDS
Date Violation Determined: 10/29/1990
Actual Date Achieved Compliance: 10/23/1992

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 01/10/1991
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 10/31/1991
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 06/19/1992
Penalty Type: Not reported

Regulation Violated: 3745-65-73
Area of Violation: TSD-MANIFEST REQUIREMENTS
Date Violation Determined: 10/29/1990

MORITZ INC (Continued) **1000265033**

Actual Date Achieved Compliance: 10/04/1991

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 01/10/1991
Penalty Type: Not reported

Regulation Violated: 3745-68-10
Area of Violation: TSD-LANDFILLS REQUIREMENTS
Date Violation Determined: 10/29/1990
Actual Date Achieved Compliance: 02/12/1992

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 01/10/1991
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 10/31/1991
Penalty Type: Not reported

Regulation Violated: 3745-68-02
Area of Violation: TSD-LANDFILLS REQUIREMENTS
Date Violation Determined: 10/29/1990
Actual Date Achieved Compliance: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 01/10/1991
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 10/31/1991
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 02/12/1992
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 06/19/1992
Penalty Type: Not reported

Regulation Violated: 3745-66-12(B)(5)
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 10/29/1990
Actual Date Achieved Compliance: 06/19/1992

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 01/10/1991
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 10/31/1991
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 10/31/1989
Actual Date Achieved Compliance: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 11/16/1989
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined: 10/31/1989

MORITZ INC (Continued) **1000265033**

Actual Date Achieved Compliance: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-LAND BAN REQUIREMENTS
Date Violation Determined: 10/31/1989
Actual Date Achieved Compliance: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 03/16/1989
Actual Date Achieved Compliance: 02/23/2004

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 11/17/1988
Actual Date Achieved Compliance: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 01/10/1989
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 10/27/1988
Actual Date Achieved Compliance: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 11/09/1988
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 10/27/1988
Actual Date Achieved Compliance: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 11/09/1988
Penalty Type: Not reported

There are 47 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance
Financial Record Review	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
Financial Record Review	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
Financial Record Review	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
Financial Record Review	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223

MORITZ INC (Continued)			**1000265033**
		TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
	Financial Record Review	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
		TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
		TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
	Financial Record Review	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
		TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
		TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
		TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
		TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
		TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
		TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
		TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
	Financial Record Review	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
		TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
		TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
	Financial Record Review	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
		TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
		TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
	Compliance GW Monitoring Evaluation	TSD-GOUNDWATER MONITORING REQUIREMENTS	
		TSD-GOUNDWATER MONITORING REQUIREMENTS	
		TSD-GOUNDWATER MONITORING REQUIREMENTS	
		TSD-GOUNDWATER MONITORING REQUIREMENTS	
		TSD-GOUNDWATER MONITORING REQUIREMENTS	
		TSD-GOUNDWATER MONITORING REQUIREMENTS	
		TSD-GOUNDWATER MONITORING REQUIREMENTS	
		TSD-GOUNDWATER MONITORING REQUIREMENTS	
	Financial Record Review	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
		TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
	Compliance Evaluation Inspection	GENERATOR-PRE-TRANSPORT REQUIREMENTS	
		GENERATOR-PRE-TRANSPORT REQUIREMENTS	
		TSD-GENERAL STANDARDS	
		TSD-GENERAL STANDARDS	
		GENERATOR-PRE-TRANSPORT REQUIREMENTS	
		GENERATOR-PRE-TRANSPORT REQUIREMENTS	
		GENERATOR-PRE-TRANSPORT REQUIREMENTS	
		GENERATOR-LAND BAN REQUIREMENTS	
		GENERATOR-LAND BAN REQUIREMENTS	
	Compliance Evaluation Inspection	GENERATOR-LAND BAN REQUIREMENTS	
		TSD-LAND BAN REQUIREMENTS	
		GENERATOR-PRE-TRANSPORT REQUIREMENTS	19921023
		TSD-GENERAL STANDARDS	19921023
		TSD-GENERAL STANDARDS	19911004
		TSD-GENERAL STANDARDS	
		TSD-CONTINGENCY PLAN REQUREMENTS	19920619
		TSD-CONTINGENCY PLAN REQUREMENTS	19920619
		TSD-MANIFEST REQUIREMENTS	19911004
		TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19920619
		TSD-LANDFILLS REQUIREMENTS	
		TSD-LANDFILLS REQUIREMENTS	19920212
	Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS (OVERSIGHT)	
	Other Evaluation	GENERATOR-LAND BAN REQUIREMENTS	
		TSD-LAND BAN REQUIREMENTS	
	Financial Record Review	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040223
	Compliance GW Monitoring Evaluation	TSD-GOUNDWATER MONITORING REQUIREMENTS	
	Compliance Evaluation Inspection	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	
		TSD-OTHER REQUIREMENTS (OVERSIGHT)	

MORITZ INC (Continued) **1000265033**

FINDS:
Other Pertinent Environmental Activity Identified at Site:
CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

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.

13
NNE
1/2-1
3596 ft.

Relative:
Lower

Actual:
1156 ft.

MANSFIELD PRODUCT COMPANY
246 EAST 4TH STREET
MANSFIELD, OH 44902

RCRA-SQG **1000381016**
FINDS **OHD000723601**
DERR
CORRACTS
CERC-NFRAP
MSL
NY MANIFEST

CERCLIS-NFRAP Classification Data:

Federal Facility:	Not a Federal Facility
Non NPL Code:	NFRAP
NPL Status:	Not on the NPL

CERCLIS-NFRAP Assessment History:

Assessment:	DISCOVERY	Completed:	08/01/1980
Assessment:	PRELIMINARY ASSESSMENT	Completed:	03/13/1985
Assessment:	SITE INSPECTION	Completed:	05/21/1991
Assessment:	ARCHIVE SITE	Completed:	09/19/1995

CERCLIS-NFRAP Alias Name(s):
MANSFIELD PROD CO

CORRACTS Data:

EPA Id:	OHD000723601
Region:	05
Area Name:	ENTIRE FACILITY
Actual Date:	12/31/1993
Corrective Action:	CA075ME - CA Prioritization, Facility or area was assigned a medium corrective action priority
2002 NAICS Title:	Not reported

RCRAInfo Corrective Action Summary:

Event:	CA Prioritization, Facility or area was assigned a medium corrective action priority.
Event Date:	12/31/1993

MANSFIELD PRODUCT COMPANY (Continued) **1000381016**

RCRAInfo:
Owner: NAME NOT REPORTED
(312) 555-1212
EPA ID: OHD000723601

Contact: M TIDMORE
(419) 755-6560

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: Violations exist

Regulation Violated: Not reported
Area of Violation: GENERATOR-ALL REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 08/27/1990
Actual Date Achieved Compliance: 10/07/1990

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 09/17/1990
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: GENERATOR-ALL REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 08/22/1989
Actual Date Achieved Compliance: 02/07/1990

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 09/11/1989
Penalty Type: Not reported

Regulation Violated: 40 CFR 268
Area of Violation: GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined: 08/22/1989
Actual Date Achieved Compliance: 09/20/1990

Regulation Violated: Not reported
Area of Violation: GENERATOR-ALL REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 04/14/1988
Actual Date Achieved Compliance: 02/07/1990

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 12/07/1988
Penalty Type: Proposed Monetary Penalty

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 04/20/1988
Penalty Type: Proposed Monetary Penalty

There are 4 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance
Compliance Evaluation Inspection	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)	19901007
Compliance Evaluation Inspection	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)	19900207
Other Evaluation	GENERATOR-LAND BAN REQUIREMENTS	19900920
Other Evaluation	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)	19900207

MANSFIELD PRODUCT COMPANY (Continued) **1000381016**

FINDS:
Other Pertinent Environmental Activity Identified at Site:
The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

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.

TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

OH MSL:

Facility ID:	370-0493
EPA ID:	OHD000723601
Lat/Long:	40 45 49 / 82 30 20
Facility Type:	None

DERR:

Facility Id:	370000493
EPA Id:	OHD000723601
Lat/Long:	40.76361111 / -82.50555556
Alias:	Not reported
District:	NWDO
Activity:	Not reported
Site Info:	419-352-8461

NY MANIFEST:

Document ID:	NYA8033796
Manifest Status:	K
Trans1 State ID:	000000000
Trans2 State ID:	000000000
Generator Ship Date:	890310
Trans1 Recv Date:	890310
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	890310
Part A Recv Date:	890421
Part B Recv Date:	890316
Generator EPA ID:	OHD000723601
Trans1 EPA ID:	NYD099328395
Trans2 EPA ID:	Not reported
TSDF ID:	NYD043815703
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	04840
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	088
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	89
Facility Type:	Generator
EPA ID:	OHD000723601

MANSFIELD PRODUCT COMPANY (Continued) **1000381016**

Facility Name:	WCI LAUNDRY DIV
Facility Address:	246 E FOURTH STREET
Facility City:	MANSFIELD
Facility Zip 4:	Not reported
Country:	Not reported
County:	Not reported
Mailing Name:	WCI LAUNDRY DIV
Mailing Contact:	Not reported
Mailing Address:	246 E FOURTH STREET
Mailing City:	MANSFIELD
Mailing State:	OH
Mailing Zip:	44902
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	419-755-6214

Click this hyperlink while viewing on your computer to access
1 additional NY MANIFEST: record(s) in the EDR Site Report.

14
North
1/2-1
4292 ft.

Relative:
Lower

Actual:
1152 ft.

MANSFIELD GAS LIGHT COMPANY **Manufactured Gas Plants** **1008407606**
EAST FIFTH AND SOUTH ADAMS **N/A**
MANSFIELD, OH 44901

15
NNW
1/2-1
4363 ft.

Relative:
Lower

Actual:
1190 ft.

MANSFIELD GRAPHICS INC **FINDS** **1000381015**
127 N WALNUT ST **RCRA-LQG** **OHD004186433**
MANSFIELD, OH 44902 **DERR**
CERC-NFRAP

CERCLIS-NFRAP Classification Data:

Federal Facility:	Not a Federal Facility		
Non NPL Code:	NFRAP		
NPL Status:	Not on the NPL		

CERCLIS-NFRAP Assessment History:

Assessment:	DISCOVERY	Completed:	05/01/1981
Assessment:	PRELIMINARY ASSESSMENT	Completed:	03/01/1984
Assessment:	PRELIMINARY ASSESSMENT	Completed:	12/02/1991
Assessment:	SITE INSPECTION	Completed:	09/17/1992
Assessment:	ARCHIVE SITE	Completed:	09/17/1992

MANSFIELD GRAPHICS INC (Continued) **1000381015**

RCRAInfo:
Owner: CHUCK MCCARTNEY
EPA ID: OHD004186433

Contact: JASON MCCARTNEY
(419) 468-1814

Classification: Large Quantity Generator
TSDF Activities: Not reported

BIENNIAL REPORTS:
Last Biennial Reporting Year: 2003

Waste	Quantity (Lbs)	Waste	Quantity (Lbs)
D002	32894.77	D007	32894.77
D008	32894.77	F006	14495.00

Violation Status: Violations exist

Regulation Violated: 3745-52-41
Area of Violation: GENERATOR-RECORDKEEPING REQUIREMENTS
Date Violation Determined: 09/03/2003
Actual Date Achieved Compliance: 09/19/2003

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 09/03/2003
Penalty Type: Not reported

Regulation Violated: 3745-52-41(A)
Area of Violation: GENERATOR-RECORDKEEPING REQUIREMENTS
Date Violation Determined: 12/11/1998
Actual Date Achieved Compliance: 12/14/1999

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 11/05/1997
Penalty Type: Final Monetary Penalty

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/11/1998
Penalty Type: Final Monetary Penalty

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/02/1999
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 04/06/2000
Penalty Type: Final Monetary Penalty

Regulation Violated: 3745-52-34(A)(2)(3)
Area of Violation: GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined: 10/24/1997
Actual Date Achieved Compliance: 09/20/1999

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 11/05/1997
Penalty Type: Final Monetary Penalty

Enforcement Action: TEN DAY LETTER
Enforcement Action Date: 06/02/1998
Penalty Type: Final Monetary Penalty

Enforcement Action: TEN DAY LETTER
Enforcement Action Date: 05/13/1998
Penalty Type: Final Monetary Penalty

MANSFIELD GRAPHICS INC (Continued) **1000381015**

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/11/1998
Penalty Type: Final Monetary Penalty

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/02/1999
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 04/06/2000
Penalty Type: Final Monetary Penalty

Regulation Violated: 3745-52-34(C)(1)
Area of Violation: GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined: 10/24/1997
Actual Date Achieved Compliance: 09/20/1999

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 11/05/1997
Penalty Type: Final Monetary Penalty

Enforcement Action: TEN DAY LETTER
Enforcement Action Date: 06/02/1998
Penalty Type: Final Monetary Penalty

Enforcement Action: TEN DAY LETTER
Enforcement Action Date: 05/13/1998
Penalty Type: Final Monetary Penalty

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/11/1998
Penalty Type: Final Monetary Penalty

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/02/1999
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 04/06/2000
Penalty Type: Final Monetary Penalty

Regulation Violated: 3745-65-16(A)(B)
Area of Violation: GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined: 10/24/1997
Actual Date Achieved Compliance: 12/14/1999

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 11/05/1997
Penalty Type: Final Monetary Penalty

Enforcement Action: TEN DAY LETTER
Enforcement Action Date: 06/02/1998
Penalty Type: Final Monetary Penalty

Enforcement Action: TEN DAY LETTER
Enforcement Action Date: 05/13/1998
Penalty Type: Final Monetary Penalty

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/11/1998
Penalty Type: Final Monetary Penalty

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/02/1999
Penalty Type: Final Monetary Penalty

MANSFIELD GRAPHICS INC (Continued) **1000381015**

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 04/06/2000
Penalty Type: Final Monetary Penalty

Regulation Violated: 3745-65-31
Area of Violation: GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined: 10/24/1997
Actual Date Achieved Compliance: 12/11/1998

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 11/05/1997
Penalty Type: Final Monetary Penalty

Enforcement Action: TEN DAY LETTER
Enforcement Action Date: 06/02/1998
Penalty Type: Final Monetary Penalty

Enforcement Action: TEN DAY LETTER
Enforcement Action Date: 05/13/1998
Penalty Type: Final Monetary Penalty

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/02/1999
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 04/06/2000
Penalty Type: Final Monetary Penalty

Regulation Violated: 3745-65-33(A)(B)
Area of Violation: GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined: 10/24/1997
Actual Date Achieved Compliance: 12/11/1998

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 11/05/1997
Penalty Type: Final Monetary Penalty

Enforcement Action: TEN DAY LETTER
Enforcement Action Date: 06/02/1998
Penalty Type: Final Monetary Penalty

Enforcement Action: TEN DAY LETTER
Enforcement Action Date: 05/13/1998
Penalty Type: Final Monetary Penalty

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/02/1999
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 04/06/2000
Penalty Type: Final Monetary Penalty

Regulation Violated: 3745-66-74(B)
Area of Violation: GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined: 10/24/1997
Actual Date Achieved Compliance: 12/11/1998

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 11/05/1997
Penalty Type: Final Monetary Penalty

Enforcement Action: TEN DAY LETTER
Enforcement Action Date: 06/02/1998

MANSFIELD GRAPHICS INC (Continued) **1000381015**

Penalty Type: Final Monetary Penalty

Enforcement Action: TEN DAY LETTER
Enforcement Action Date: 05/13/1998
Penalty Type: Final Monetary Penalty

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/02/1999
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 04/06/2000
Penalty Type: Final Monetary Penalty

Regulation Violated: 3745-65-32(B)
Area of Violation: GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined: 10/24/1997
Actual Date Achieved Compliance: 12/11/1998

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 11/05/1997
Penalty Type: Final Monetary Penalty

Enforcement Action: TEN DAY LETTER
Enforcement Action Date: 06/02/1998
Penalty Type: Final Monetary Penalty

Enforcement Action: TEN DAY LETTER
Enforcement Action Date: 05/13/1998
Penalty Type: Final Monetary Penalty

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/02/1999
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 04/06/2000
Penalty Type: Final Monetary Penalty

Regulation Violated: 3745-65-16(D)(E)
Area of Violation: GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined: 10/24/1997
Actual Date Achieved Compliance: 12/14/1999

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 11/05/1997
Penalty Type: Final Monetary Penalty

Enforcement Action: TEN DAY LETTER
Enforcement Action Date: 06/02/1998
Penalty Type: Final Monetary Penalty

Enforcement Action: TEN DAY LETTER
Enforcement Action Date: 05/13/1998
Penalty Type: Final Monetary Penalty

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/11/1998
Penalty Type: Final Monetary Penalty

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 07/02/1999
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER

MANSFIELD GRAPHICS INC (Continued) **1000381015**

Enforcement Action Date: 04/06/2000
Penalty Type: Final Monetary Penalty

Regulation Violated: Not reported
Area of Violation: GENERATOR-ALL REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 08/03/1989
Actual Date Achieved Compliance: 03/30/1990

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 08/08/1989
Penalty Type: Not reported

Penalty Summary:

Penalty Description	Penalty Date	Penalty Amount	Lead Agency
Final Monetary Penalty	4/6/2000	14000	STATE
Final SEP Credit	4/6/2000	10000	STATE

There are 11 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance
Non-Financial Record Review	GENERATOR-RECORDKEEPING REQUIREMENTS	20030919
Compliance Evaluation Inspection	GENERATOR-PRE-TRANSPORT REQUIREMENTS	19990920
	GENERATOR-PRE-TRANSPORT REQUIREMENTS	19990920
	GENERATOR-PRE-TRANSPORT REQUIREMENTS	19991214
	GENERATOR-PRE-TRANSPORT REQUIREMENTS	19991214
	GENERATOR-PRE-TRANSPORT REQUIREMENTS	19981211
	GENERATOR-PRE-TRANSPORT REQUIREMENTS	19981211
	GENERATOR-PRE-TRANSPORT REQUIREMENTS	19981211
	GENERATOR-PRE-TRANSPORT REQUIREMENTS	19981211
	GENERATOR-RECORDKEEPING REQUIREMENTS	19991214
Compliance Evaluation Inspection	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)	19900330

FINDS:

Other Pertinent Environmental Activity Identified at Site:

The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

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.

DERR:

Facility Id: 370000483
EPA Id: OHD004186433
Lat/Long: 40.762151 / -82.5163
Alias: Not reported
District: NWDO
Activity: Not reported
Site Info: 419-352-8461

16
NNW
1/2-1
4937 ft.

CII TECHNOLOGIES HARTMAN DIV
175 N DIAMOND ST
MANSFIELD, OH 44902

DERR
VCP
HIST USD

S106697563
N/A

Relative:
Lower

Actual:
1156 ft.

DERR:

Facility Id:	370002023
EPA Id:	Not reported
Lat/Long:	40.763614 / -82.514503
Alias:	Communications Ins
District:	NWDO
Activity:	VAP
Site Info:	419-352-8461

OH VCP:

Facility ID:	370-2023-001
DERR ID:	370-2023
OH EPA District:	NWDO
Program Area:	VAP
Project Type:	NFA 90 Day

HISTORICAL USD:

Alias Name:	NA
Date UDS Submitted:	01/12/1998
USD Status:	ISSUED
Date USD Approved / DisApproved:	09/01/1998
District Office:	NWDO
Area Wide / Site Specific:	Site Specific
Total Acres:	Not reported
Data of Public Meeting:	02/26/1998
CP Name(s):	William R. Rish
Certification #:	CP140
Compliance :	F
5-Yr USD Review Date::	NA (Site Specific)
Review Conclusion:	NA
History:	NA
GW Reviewer:	Lisa Koenig, DDAGW/CO
VAP/Lead Reviewer:	Not reported
Legal Reviewer:	Mortland
Initial Volunteer:	Figgie Properties
Current Volunteer:	Figgie Properties
CV Street:	1049 Technology Park Dr.
CV City/State/Zip:	Glen Allen, VA 23060
CV Contact:	Richard Kiefer
CV Phone:	Not reported
CV Fax:	Not reported
CV Email:	Not reported
History/Notes:	Not reported
USD Info:	Not reported

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LEXINGTON	1002540952	CLEARFORK MARINA	7471 ST RT 97	44903	LUST
MANSFIELD	S104259937	MUSICK'S SERV STATION MAINT,INC.	RT 12	44903	LUST
MANSFIELD	S107610324	CLL TECHNOLOGIES HARTMAN DIV	175 N DIAMOND ST	44902	INST CONTROL
MANSFIELD	1000851375	LINCOLN FIELDS COOP WATER ASSN DUKE WELL	DUKE AVENUE	44905	CERCLIS, FINDS, DERR
MANSFIELD	S106097378	RT 309 BP	616 N LEXINGTON	44907	LUST, ARCHIVE UST
MANSFIELD	S104259795	MIFFLIN TWP FIRE DEPT	2326 PARK AVE E	44903	LUST
MANSFIELD	S104269904	FORMER TEXECO	1009 PARK RD		LUST
MANSFIELD	S104259915	CHARLES MILL MARINA	1277 ST RT 430	44903	LUST
MANSFIELD	S104778747	JOHN F. HARING	ST RT 53-LEXINGTON AVE	44903	LUST

EPA Waste Codes Addendum

Code	Description
D002	A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
D007	CHROMIUM
D008	LEAD
F006	WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

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
Date Data Arrived at EDR: 05/05/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 17

Source: EPA
Telephone: N/A
Last EDR Contact: 05/05/2006
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
Date Data Arrived at EDR: 05/05/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 17

Source: EPA
Telephone: N/A
Last EDR Contact: 05/05/2006
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
Date Data Arrived at EDR: 05/05/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 17

Source: EPA
Telephone: N/A
Last EDR Contact: 05/05/2006
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
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 05/23/2006
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
Date Data Arrived at EDR: 03/21/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 23

Source: EPA
Telephone: 703-413-0223
Last EDR Contact: 06/22/2006
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
Date Data Arrived at EDR: 03/21/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 23

Source: EPA
Telephone: 703-413-0223
Last EDR Contact: 06/23/2006
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
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 05/21/2006
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
Date Data Arrived at EDR: 04/27/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 33

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/28/2006
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
Date Data Arrived at EDR: 01/12/2006
Date Made Active in Reports: 02/21/2006
Number of Days to Update: 40

Source: National Response Center, United States Coast Guard
Telephone: 202-260-2342
Last EDR Contact: 04/26/2006
Next Scheduled EDR Contact: 07/24/2006
Data Release Frequency: Annually

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
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 46

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 04/14/2006
Next Scheduled EDR Contact: 07/17/2006
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
Date Data Arrived at EDR: 03/27/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 703-603-8905
Last EDR Contact: 07/03/2006
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
Date Data Arrived at EDR: 03/27/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 703-603-8905
Last EDR Contact: 07/03/2006
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
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: 703-692-8801
Last EDR Contact: 05/12/2006
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
Date Data Arrived at EDR: 01/19/2006
Date Made Active in Reports: 02/21/2006
Number of Days to Update: 33

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Varies

US BROWNFIELDS: A Listing of Brownfields Sites

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
Date Data Arrived at EDR: 04/27/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 33

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/12/2006
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
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 04/25/2005
Number of Days to Update: 69

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/13/2006
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
Date Data Arrived at EDR: 04/28/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 32

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 07/06/2006
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
Date Data Arrived at EDR: 11/28/2005
Date Made Active in Reports: 01/30/2006
Number of Days to Update: 63

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 06/21/2006
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
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
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
Date Data Arrived at EDR: 07/13/2005
Date Made Active in Reports: 08/17/2005
Number of Days to Update: 35

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 06/22/2006
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
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 46

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 04/12/2006
Next Scheduled EDR Contact: 07/17/2006
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
Date Data Arrived at EDR: 04/26/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 34

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 06/19/2006
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
Date Data Arrived at EDR: 04/26/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 34

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 06/19/2006
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
Date Data Arrived at EDR: 05/11/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 11

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 03/06/2006
Next Scheduled EDR Contact: 07/17/2006
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
Date Data Arrived at EDR: 04/21/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 20

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 04/11/2006
Next Scheduled EDR Contact: 07/17/2006
Data Release Frequency: Quarterly

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
Date Data Arrived at EDR: 02/08/2006
Date Made Active in Reports: 02/27/2006
Number of Days to Update: 19

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 06/28/2006
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
Date Data Arrived at EDR: 04/26/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 34

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 07/03/2006
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
Date Data Arrived at EDR: 03/29/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 62

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 06/28/2006
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
Date Data Arrived at EDR: 05/02/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 28

Source: EPA
Telephone: N/A
Last EDR Contact: 04/03/2006
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
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/05/2006
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.

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: This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.
State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

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: Ohio EPA
Telephone: 614-644-2924
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: N/A

DERR: Division of Emergency & Remedial Response's Database
The DERR listings contains sites from all of Ohio that are in the Division of Emergency and Remedial Response (DERR) database, which is an index of sites for which our district offices maintain files. The database is NOT a record of contaminated sites or sites suspected of contamination. Not all sites in the database are contaminated, and a site's absence from the database does not imply that it is uncontaminated.

Date of Government Version: 03/14/2006
Date Data Arrived at EDR: 03/15/2006
Date Made Active in Reports: 03/30/2006
Number of Days to Update: 15

Source: Ohio EPA, Div. of Emergency and Remedial Response
Telephone: 614-644-3538
Last EDR Contact: 06/12/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Semi-Annually

TOWNGAS: DERR Towngas Database
The database includes 82 very old sites (circa 1895) which produced gas from coal for street lighting. Most visual evidence of these sites has disappeared, however the potential for buried coal tar remains. The database is no longer in active use.

Date of Government Version: 07/28/1992
Date Data Arrived at EDR: 02/21/2003
Date Made Active in Reports: 03/05/2003
Number of Days to Update: 12

Source: Ohio EPA
Telephone: 614-644-3749
Last EDR Contact: 02/12/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

MSL: Master Sites List
Ohio EPA no longer maintains or publishes the MSL, which was a list of sites with known or suspected contamination. Please be advised that this report does not constitute a determination that any site identified in the report is or may be contaminated.

Date of Government Version: 03/01/1999
Date Data Arrived at EDR: 03/29/1999
Date Made Active in Reports: 04/21/1999
Number of Days to Update: 23

Source: Ohio Environmental Protection Agency
Telephone: 614-644-2068
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: No Update Planned

SWF/LF: Licensed Solid Waste Facilities
Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/23/2006
Date Data Arrived at EDR: 05/24/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 35

Source: Ohio Environmental Protection Agency
Telephone: 614-644-2621
Last EDR Contact: 05/11/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Annually

HIST LF: Old Solid Waste Landfill

A list of about 1200 old abandoned dumps or landfills. This database was developed from Ohio EPA staff notebooks and other information dating from the mid-1970s

Date of Government Version: 01/01/1980
Date Data Arrived at EDR: 07/01/2003
Date Made Active in Reports: 07/17/2003
Number of Days to Update: 16

Source: Ohio EPA
Telephone: 614-644-3749
Last EDR Contact: 06/26/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

LUST: Leaking Underground Storage Tank File

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: 03/15/2006
Date Data Arrived at EDR: 03/15/2006
Date Made Active in Reports: 03/30/2006
Number of Days to Update: 15

Source: Department of Commerce
Telephone: 614-752-7924
Last EDR Contact: 06/14/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Quarterly

UNREG LTANKS: Ohio Leaking UST File

A suspected or confirmed release of petroleum from a non-regulated UST.

Date of Government Version: 08/25/1999
Date Data Arrived at EDR: 08/19/2003
Date Made Active in Reports: 08/26/2003
Number of Days to Update: 7

Source: Department of Commerce
Telephone: 614-752-7938
Last EDR Contact: 08/01/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST: Underground Storage Tank Tank File

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: 03/15/2006
Date Data Arrived at EDR: 03/15/2006
Date Made Active in Reports: 04/03/2006
Number of Days to Update: 19

Source: Department of Commerce
Telephone: 614-752-7938
Last EDR Contact: 06/14/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Quarterly

ARCHIVE UST: Archived Underground Storage Tank Sites

Underground storage tank records that have been removed from the Underground Storage Tank database.

Date of Government Version: 03/15/2006
Date Data Arrived at EDR: 03/15/2006
Date Made Active in Reports: 03/30/2006
Number of Days to Update: 15

Source: Department of Commerce, Division of State Fire Marshal
Telephone: 614-752-7938
Last EDR Contact: 06/14/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Quarterly

SPILLS: Emergency Response Database

Incidents reported to the Emergency Response Unit. The focus of the ER program is to minimize the impact on the environment from accidental releases, spills, and unauthorized discharges from any fixed or mobile sources. Incidents involving petroleum products, hazardous materials, hazardous waste, abandoned drums, or other materials which may pose as a pollution threat to the state?s water, land, or air should be reported immediately. Not all incidents included in the database are actual SPILLS, they can simply be reported incidents.

Date of Government Version: 06/05/2006
Date Data Arrived at EDR: 06/06/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 22

Source: Ohio EPA
Telephone: 614-644-2084
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Varies

ENG CONTROLS: Sites with Engineering Controls
A database that tracks properties with engineering controls.

Date of Government Version: 03/20/2006
Date Data Arrived at EDR: 04/04/2006
Date Made Active in Reports: 05/04/2006
Number of Days to Update: 30

Source: Ohio EPA
Telephone: 614-644-2324
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Semi-Annually

INST CONTROL: Sites with Institutional Engineering Controls
A database that tracks properties with institutional controls.

Date of Government Version: 03/20/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/04/2006
Number of Days to Update: 28

Source: Ohio Environmental Protection Agency
Telephone: 614-644-2324
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Semi-Annually

VCP: Voluntary Action Program Sites
Site involved in the Voluntary Action Program.

Date of Government Version: 03/06/2006
Date Data Arrived at EDR: 03/06/2006
Date Made Active in Reports: 03/30/2006
Number of Days to Update: 24

Source: Ohio EPA, Voluntary Action Program
Telephone: 614-644-1298
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Semi-Annually

DRYCLEANERS: Drycleaner Facility Listing
A listing of drycleaner facility locations.

Date of Government Version: 04/20/2006
Date Data Arrived at EDR: 04/26/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 15

Source: Ohio EPA
Telephone: 614-644-3469
Last EDR Contact: 04/20/2006
Next Scheduled EDR Contact: 07/24/2006
Data Release Frequency: Varies

BROWNFIELDS: Ohio Brownfield Inventory
A statewide brownfields inventory. A brownfield is an abandoned, idled or under-used industrial or commercial property where expansion or redevelopment is complicated by known or potential releases of hazardous substances and/or petroleum.

Date of Government Version: 04/11/2006
Date Data Arrived at EDR: 05/19/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 40

Source: Ohio EPA
Telephone: 614-644-3748
Last EDR Contact: 04/11/2006
Next Scheduled EDR Contact: 07/10/2006
Data Release Frequency: Varies

CDL: Clandestine Drug Lab Locations
A list of clandestine drug lab sites with environmental impact. This list is extracted from the SPILLS database based on the "product" type.

Date of Government Version: 03/22/2006
Date Data Arrived at EDR: 04/10/2006
Date Made Active in Reports: 05/04/2006
Number of Days to Update: 24

Source: Ohio EPA
Telephone: 614-644-2080
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPDES: NPDES General Permit List

General information regarding NPDES (National Pollutant Discharge Elimination System) permits.

Date of Government Version: 05/02/2006
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 26

Source: Ohio EPA
Telephone: 614-644-2031
Last EDR Contact: 06/02/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Semi-Annually

USD: Urban Setting Designation Sites

A USD may be requested for properties participating in the VAP when there is no current or future use of the ground water by local residents for drinking, showering, bathing or cooking. In these areas, an approved USD would lower the cost of cleanup and promote economic redevelopment while still protecting public health and safety. If these USDs were to be approved, the ground water cleanup or response requirements for the areas could be lessened. The Ohio EPA director may approve a USD request based on a demonstration that the USD requirements are met and an evaluation of existing and future uses of ground water in the area. The Ohio EPA director's decision on approval or denial of the request is needed before cleanup requirements for the site can be determined.

Date of Government Version: 03/15/2006
Date Data Arrived at EDR: 04/25/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 16

Source: Ohio EPA
Telephone: 614-644-3749
Last EDR Contact: 06/07/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Varies

HIST INST CONTROLS: Institutional Controls Database

"Institutional control" is a restriction that is recorded in the same manner as a deed which limits access to or use of the property such that exposure to hazardous substances or petroleum are effectively and reliably eliminated or mitigated. Examples of institutional controls include land and water use restrictions. This database is no longer updated or maintained by the state agency.

Date of Government Version: 05/10/2005
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/04/2006
Number of Days to Update: 28

Source: Ohio EPA
Telephone: 614-644-3749
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: No Update Planned

HIST ENG CONTROLS: Operation & Maintenance Agreements Database

Volunteers that complete a voluntary action that relies on the ongoing operation and maintenance (O&M) of an engineered control to make the site protective (e.g" cap systems and ground water treatment systems) must enter into a legally binding agreement with the Ohio EPA before the director issues a covenant not to sue. This O&M Agreement must describe how the remedy is constructed and how itwill be monitored, maintained and repaired. It also lays out inspection opportunities for the agency. Companies must document that they have the financial capability to operate any remedy relied on, before the agency will agree to enter into the O&M Agreement. The statute requires that the agency be notified of any change in ownership. This database is no longer updated or maintained by the state agency.

Date of Government Version: 05/10/2005
Date Data Arrived at EDR: 04/04/2006
Date Made Active in Reports: 05/04/2006
Number of Days to Update: 30

Source: Ohio EPA
Telephone: 614-644-3749
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: No Update Planned

HIST USD: Urban Setting Designations Database

A USD may be requested for properties participating in the VAP when there is no current or future use of the ground water by local residents for drinking, showering, bathing or cooking. In these areas, an approved USD would lower the cost of cleanup and promote economic redevelopment while still protecting public health and safety. If these USDs were to be approved, the ground water cleanup or response requirements for the areas could be lessened. The Ohio EPA director may approve a USD request based on a demonstration that the USD requirements are met and an evaluation of existing and future uses of ground water in the area. The Ohio EPA director's decision on approval or denial of the request is needed before cleanup requirements for the site can be determined. This database is no longer updated or maintained by the state agency.

Date of Government Version: 05/10/2005
Date Data Arrived at EDR: 04/25/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 16

Source: Ohio EPA
Telephone: 614-644-3749
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: No Update Planned

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.

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

PA 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

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.

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: Licensed Child Day Care Facilities
Source: Department of Job & Family Services
Telephone: 614-466-6282

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.

State Wetlands Data: Wetlands Inventory
Source: Department of Natural Resources
Telephone: 614-265-1044

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

SSG ROY CLIFTON SCOUTEN USARC
271 HEDGES STREET
MANSFIELD, OH 44902

TARGET PROPERTY COORDINATES

Latitude (North):	40.75100 - 40° 45' 3.6''
Longitude (West):	82.5099 - 82° 30' 35.7''
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	372532.8
UTM Y (Meters):	4512001.5
Elevation:	1286 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	40082-G5 MANSFIELD NORTH, OH
Most Recent Revision:	1982
East Map:	40082-G4 PAVONIA, OH
Most Recent Revision:	1982
Southeast Map:	40082-F4 LUCAS, OH
Most Recent Revision:	1982
South Map:	40082-F5 MANSFIELD SOUTH, OH
Most Recent Revision:	1982

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).

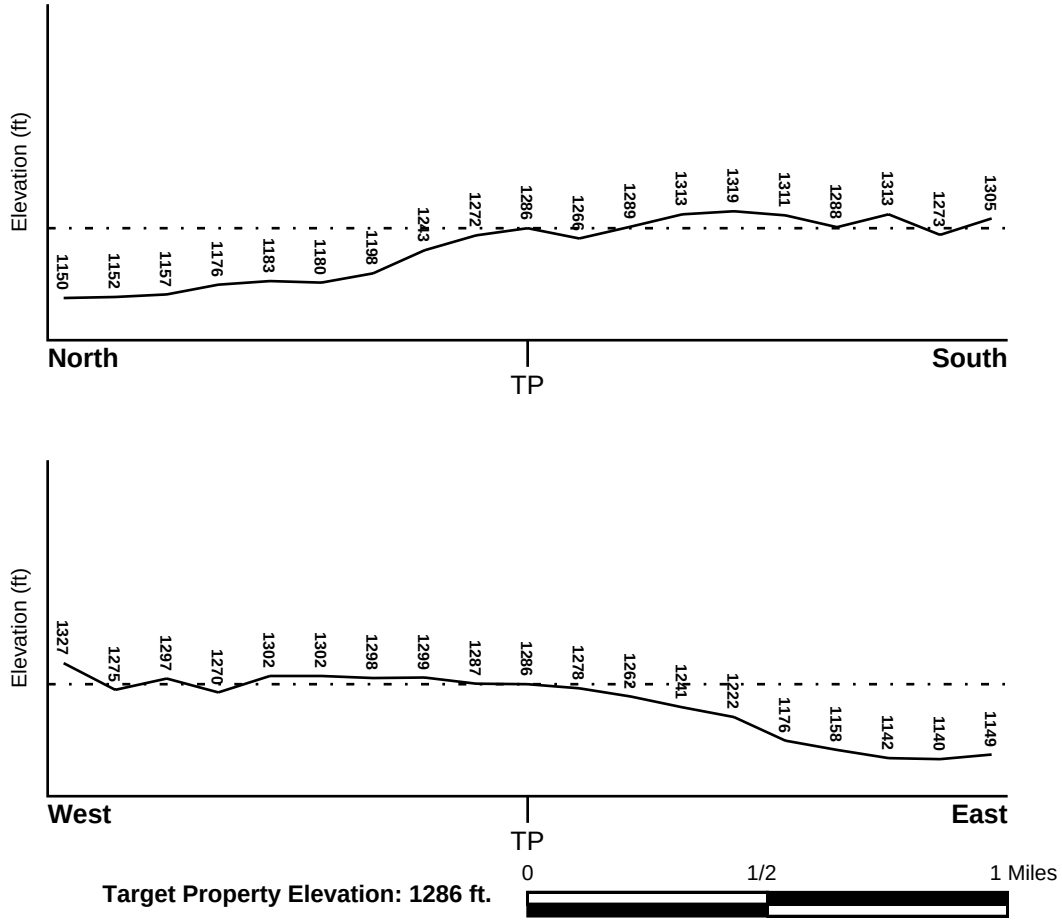
TOPOGRAPHIC INFORMATION

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 NE

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

Target Property County	FEMA Flood Electronic Data
RICHLAND, OH	Not Available

Flood Plain Panel at Target Property: Not Reported

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
MANSFIELD NORTH	Not Available

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.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
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:	Mississippian
Series:	Mississippian
Code:	M *(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:	CANFIELD
Soil Surface Texture:	gravelly - silt loam
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class:	Moderately well drained. Soils have a layer of low hydraulic conductivity, wet state high in the profile. Depth to water table is 3 to 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	MODERATE
Depth to Bedrock Min:	> 60 inches
Depth to Bedrock Max:	> 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	10 inches	gravelly - silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 7.30 Min: 4.50
2	10 inches	26 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 5.50 Min: 4.50
3	26 inches	55 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 0.20 Min: 0.06	Max: 7.30 Min: 4.50
4	55 inches	72 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 0.20 Min: 0.06	Max: 7.80 Min: 5.10

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

Surficial Soil Types: silt loam

Shallow Soil Types: silt loam

Deeper Soil Types: stratified
unweathered bedrock

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.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

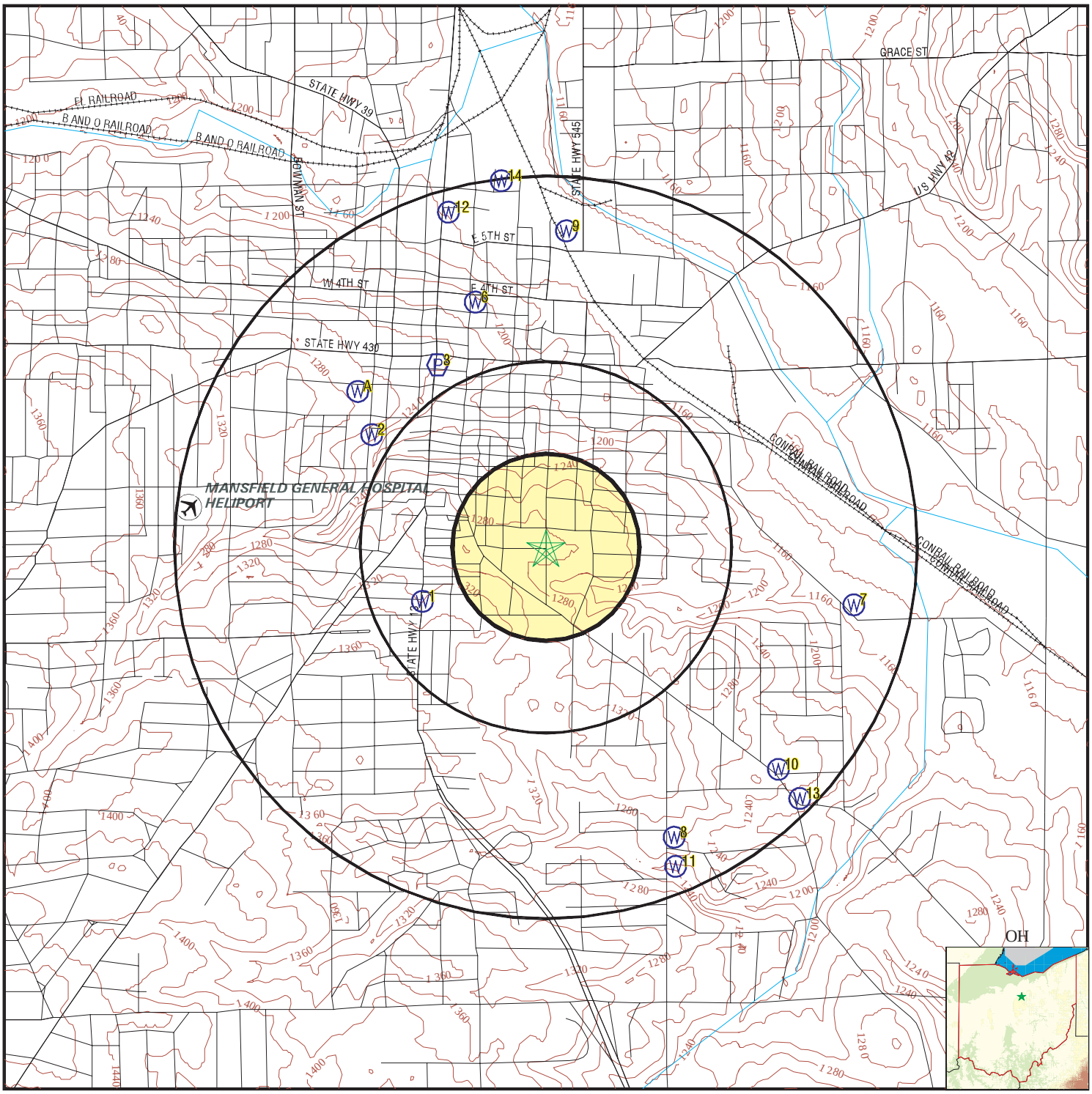
MAP ID	WELL ID	LOCATION FROM TP
3	OH0335112	1/2 - 1 Mile NNW

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	OHD100000067327	1/4 - 1/2 Mile WSW
2	OHD100000067865	1/2 - 1 Mile WNW
A4	OHD100000068039	1/2 - 1 Mile NW
A5	OHD100000068040	1/2 - 1 Mile NW
6	OHD100000068279	1/2 - 1 Mile NNW
7	OHD100000067314	1/2 - 1 Mile East
8	OHD100000066445	1/2 - 1 Mile SSE
9	OHD100000068547	1/2 - 1 Mile North
10	OHD100000066744	1/2 - 1 Mile SE
11	OHD100000066358	1/2 - 1 Mile SSE
12	OHD100000068618	1/2 - 1 Mile NNW
13	OHD100000066599	1/2 - 1 Mile SE
14	OHD100000068770	1/2 - 1 Mile North

PHYSICAL SETTING SOURCE MAP - 01714247.98r



County Boundary
Major Roads
Contour Lines
Airports
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

0 1/4 1/2 1 Miles

Groundwater Flow Direction
GI Indeterminate Groundwater Flow at Location
GV Groundwater Flow Varies at Location

N

SITE NAME:	SSG Roy Clifton Scouten USARC	CLIENT:	CH2M Hill
ADDRESS:	271 HEDGES STREET MANSFIELD OH 44902	CONTACT:	Mary Beth Jacques
LAT/LONG:	40.7510 / 82.5099	INQUIRY #:	01714247.98r
		DATE:	July 12, 2006

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
1 **WSW** **1/4 - 1/2 Mile** **Higher**	**OH WELLS**	**OHD100000067327**

Well log n:	9970096	Well type :	W
Cnty code:	139	Twp code:	1620
Orig owner:	Not Reported	Orig own 1:	GATTON
Well use c:	Not Reported	Aquifer ty:	SST
St dir cod:	S	St no:	432
St name:	MAIN	St type co:	ST
City:	Not Reported	State code:	OH
Zip:	Not Reported	Horiz x:	1995473.04
Horiz y:	394251.93	Latitude:	Not Reported
Longitude:	Not Reported	Total dept:	186

---

2 **WNW** **1/2 - 1 Mile** **Lower**		**OH WELLS**	**OHD100000067865**

Well log n:	106697	Well type :	W
Cnty code:	139	Twp code:	1620
Orig owner:	Not Reported	Orig own 1:	THERM-A-DISC
Well use c:	Not Reported	Aquifer ty:	SST
St dir cod:	Not Reported	St no:	127
St name:	CROUSE	St type co:	ST
City:	Not Reported	State code:	OH
Zip:	Not Reported	Horiz x:	1994753.23
Horiz y:	396621.48	Latitude:	Not Reported
Longitude:	Not Reported	Total dept:	250

---

3 **NNW** **1/2 - 1 Mile** **Lower**		**FRDS PWS**	**OH0335112**

PWS ID:	OH0335112	PWS Status:	Active
Date Initiated:	Not Reported	Date Deactivated:	Not Reported
PWS Name:	MWCD-CHARLES MILL LK PK8 MANAGER 1319 THIRD ST NW MANSFIELD, OH 44903		
Addressee / Facility:	Not Reported		
Facility Latitude:	40 45 29	Facility Longitude:	082 30 56
City Served:	Not Reported		
Treatment Class:	Treated	Population:	00000300

PWS currently has or had major violation(s) or enforcement: No

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database | EDR ID Number

A4
NW
1/2 - 1 Mile
Lower

OH WELLS **OHD100000068039**

Well log n:	135912	Well type :	W
Cnty code:	139	Twp code:	1620
Orig owner:	Not Reported	Orig own 1:	MANSFIELD TELEPHONE
Well use c:	Not Reported	Aquifer ty:	SLS
St dir cod:	S	St no:	Not Reported
St name:	MULLBERRY	St type co:	ST
City:	Not Reported	State code:	OH
Zip:	Not Reported	Horiz x:	1994553.58
Horiz y:	397235.47	Latitude:	Not Reported
Longitude:	Not Reported	Total dept:	300

A5
NW
1/2 - 1 Mile
Lower

OH WELLS **OHD100000068040**

Well log n:	135909	Well type :	W
Cnty code:	139	Twp code:	1620
Orig owner:	Not Reported	Orig own 1:	MANSFIELD TELEPHONE
Well use c:	Not Reported	Aquifer ty:	SST
St dir cod:	W	St no:	Not Reported
St name:	SECOND	St type co:	ST
City:	Not Reported	State code:	OH
Zip:	Not Reported	Horiz x:	1994553.58
Horiz y:	397235.47	Latitude:	Not Reported
Longitude:	Not Reported	Total dept:	250

6
NNW
1/2 - 1 Mile
Lower

OH WELLS **OHD100000068279**

Well log n:	9970028	Well type :	W
Cnty code:	139	Twp code:	1620
Orig owner:	Not Reported	Orig own 1:	FRANK BROS BREWERY
Well use c:	Not Reported	Aquifer ty:	LSS
St dir cod:	Not Reported	St no:	Not Reported
St name:	Not Reported	St type co:	Not Reported
City:	Not Reported	State code:	OH
Zip:	Not Reported	Horiz x:	1996225.52
Horiz y:	398505.6	Latitude:	Not Reported
Longitude:	Not Reported	Total dept:	190

7
East
1/2 - 1 Mile
Lower

OH WELLS **OHD100000067314**

Well log n:	195096	Well type :	W
Cnty code:	139	Twp code:	1620
Orig owner:	Not Reported	Orig own 1:	CITY OF MANSFIELD OH
Well use c:	Not Reported	Aquifer ty:	GST
St dir cod:	Not Reported	St no:	Not Reported
St name:	HESSELTON	St type co:	RD
City:	Not Reported	State code:	OH
Zip:	Not Reported	Horiz x:	2001605.96
Horiz y:	394200.49	Latitude:	Not Reported
Longitude:	Not Reported	Total dept:	120

8
SSE
1/2 - 1 Mile
Lower

OH WELLS **OHD100000066445**

Well log n:	237360	Well type :	W
Cnty code:	139	Twp code:	1620
Orig owner:	CHARLES	Orig own 1:	EAGLESTON
Well use c:	Not Reported	Aquifer ty:	SST
St dir cod:	Not Reported	St no:	693
St name:	WOODVILLE	St type co:	RD
City:	Not Reported	State code:	OH
Zip:	Not Reported	Horiz x:	1999050.78
Horiz y:	390896.99	Latitude:	Not Reported
Longitude:	Not Reported	Total dept:	280

9
North
1/2 - 1 Mile
Lower

OH WELLS **OHD100000068547**

Well log n:	9970035	Well type :	W
Cnty code:	139	Twp code:	1620
Orig owner:	Not Reported	Orig own 1:	HUMPHREYS MFG CO
Well use c:	Not Reported	Aquifer ty:	HDP
St dir cod:	Not Reported	St no:	Not Reported
St name:	Not Reported	St type co:	Not Reported
City:	Not Reported	State code:	OH
Zip:	Not Reported	Horiz x:	1997519.81
Horiz y:	399518.99	Latitude:	Not Reported
Longitude:	Not Reported	Total dept:	232

10
SE
1/2 - 1 Mile
Lower

OH WELLS **OHD100000066744**

Well log n:	99030	Well type :	W
Cnty code:	139	Twp code:	1620
Orig owner:	JOHN	Orig own 1:	CONSTANCE
Well use c:	Not Reported	Aquifer ty:	GRA
St dir cod:	S	St no:	803
St name:	DIAMOND	St type co:	ST
City:	Not Reported	State code:	OH
Zip:	Not Reported	Horiz x:	2000533.42
Horiz y:	391862.86	Latitude:	Not Reported
Longitude:	Not Reported	Total dept:	33

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database | EDR ID Number

11
SSE
1/2 - 1 Mile
Lower

OH WELLS **OHD100000066358**

Well log n:	177190	Well type :	W
Cnty code:	139	Twp code:	1620
Orig owner:	CLARA	Orig own 1:	JONES
Well use c:	Not Reported	Aquifer ty:	GRA
St dir cod:	Not Reported	St no:	717
St name:	WOODVILLE	St type co:	RD
City:	Not Reported	State code:	OH
Zip:	Not Reported	Horiz x:	1999072.17
Horiz y:	390482.94	Latitude:	Not Reported
Longitude:	Not Reported	Total dept:	96

12
NNW
1/2 - 1 Mile
Lower

OH WELLS **OHD100000068618**

Well log n:	9970143	Well type :	W
Cnty code:	139	Twp code:	1620
Orig owner:	Not Reported	Orig own 1:	HARTMAN ELECTRIC & M
Well use c:	Not Reported	Aquifer ty:	SHS
St dir cod:	Not Reported	St no:	Not Reported
St name:	Not Reported	St type co:	Not Reported
City:	Not Reported	State code:	OH
Zip:	Not Reported	Horiz x:	1995843.48
Horiz y:	399784.65	Latitude:	Not Reported
Longitude:	Not Reported	Total dept:	113

13
SE
1/2 - 1 Mile
Lower

OH WELLS **OHD100000066599**

Well log n:	218012	Well type :	W
Cnty code:	139	Twp code:	1620
Orig owner:	JOHN	Orig own 1:	CONSTANCE
Well use c:	Not Reported	Aquifer ty:	SST
St dir cod:	S	St no:	Not Reported
St name:	DIAMOND	St type co:	ST
City:	Not Reported	State code:	OH
Zip:	Not Reported	Horiz x:	2000837.03
Horiz y:	391448.31	Latitude:	Not Reported
Longitude:	Not Reported	Total dept:	210

14
North
1/2 - 1 Mile
Lower

OH WELLS **OHD100000068770**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well log n:	218054	Well type :	W
Cnty code:	139	Twp code:	1620
Orig owner:	Not Reported	Orig own 1:	MANSFIELD ASPHALT
Well use c:	Not Reported	Aquifer ty:	SGR
St dir cod:	Not Reported	St no:	153
St name:	ORANGE	St type co:	ST
City:	Not Reported	State code:	OH
Zip:	Not Reported	Horiz x:	1996595.24
Horiz y:	400231.42	Latitude:	Not Reported
Longitude:	Not Reported	Total dept:	200

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: OH Radon

Radon Test Results

Zip	Total Sites	Median	1st Quartile	3rd Quartile	Min.	Max.
44902	11	2.7	1.48	5.65	0.7	10.2

Federal EPA Radon Zone for RICHLAND 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.

Federal Area Radon Information for Zip Code: 44902

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	1.500 pCi/L	100%	0%	0%

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.

State Wetlands Data: Wetlands Inventory
Source: Department of Natural Resources
Telephone: 614-265-1044

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

Public Water System Data
Source: Ohio Environmental Protection Agency
Telephone: 614-644-3677
The database includes community, transient noncommunity and nontransient noncommunity water wells; and source treatment unit locations.

Water Well Database
Source: Department of Natural Resources
Telephone: 614-265-6747

OTHER STATE DATABASE INFORMATION

RADON

State Database: OH Radon
Source: Department of Health
Telephone: 614-644-2727
Radon Statistics for Zip Code Areas

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.

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

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

Fax To: CH2M Hill
Contact: Mary Beth Jacques
Fax : 404-229-9152
Date: 07/12/2006

Fax From: Bart Sobieralski
EDR
Phone: 1-800-352-0050

EDR PUR-IQ® Report

"the intelligent way to conduct historical research"

for
SSG Roy Clifton Scouten USARC
271 HEDGES STREET
MANSFIELD, OH 44902
Lat./Long. 40.75100 / 82.50990
EDR Inquiry # 01714247.98r

The EDR PUR-IQ report facilitates historical research planning required to complete the Phase I ESA process. The report identifies the *likelihood* of prior use coverage by searching proprietary EDR-Prior Use Reports® comprising nationwide information on: city directories, fire insurance maps, aerial photographs, historical topographic maps, flood maps and National Wetland Inventory maps.

Potential for EDR Historical (Prior Use) Coverage - Coverage in the following historical information sources may be used as a guide to develop your historical research strategy:

1. City Directory: Coverage exists for portions of MANSFIELD, OH for 1909, 1959, 1961, 1963, 1965, 1967, 1969, 1973, 1975, 1976, 1978, 1980, 1986-1990, 1992-1997

2. Fire Insurance Map: When you order online any EDR Package or the EDR Radius Map with EDR Sanborn Map Search/Print, you receive site specific Sanborn Map coverage information at no charge.

3. Aerial Photograph: Aerial photography coverage may exist for portions of Richland County. Please contact your EDR Account Executive for information about USGS photos available through EDR.

4. Topographic Map: The USGS 7.5 min. quad topo sheet(s) associated with this site:

Historical: Coverage exists for Richland County

Current: Target Property: TP | 1982 | 40082-G5 Mansfield North, OH

Additional required for 1 Mile radius: E | 1982 | 40082-G4 Pavonia, OH
SE | 1982 | 40082-F4 Lucas, OH
S | 1982 | 40082-F5 Mansfield South, OH

EDR's network of professional researchers, located throughout the United States, accesses the most extensive national collections of city directory, fire insurance maps, aerial photographs and historical topographic map resources available for MANSFIELD, OH. These collections may be located in multiple libraries throughout the country. To ensure maximum coverage, EDR will often assign researchers at these multiple locations on your behalf. Please call or fax your EDR representative to authorize a search.

EDR - HISTORICAL SOURCE(S) ORDER FORM

CH2M Hill
Mary Beth Jacques
Account # 1592163

SSG Roy Clifton Scouten USARC
271 HEDGES STREET
MANSFIELD, OH 44902
Richland County
Lat./Long. 40.75100 / 82.50990
EDR Inquiry # 01714247.98r

Should you wish to change or add to your order, fax this form to your EDR account executive:

Bart Sobieralski
Ph: 1-800-352-0050 Fax: 1-800-231-6802

Reports

___ EDR Sanborn Map® Search/Print

___ EDR Fire Insurance Map Abstract

___ EDR Multi-Tenant Retail Facility® Report

___ EDR City Directory Abstract

___ EDR Aerial Photo Decade Package

___ USGS Aerial 5 Package

___ USGS Aerial 3 Package

___ EDR Historical Topographic Maps

___ Paper Current USGS Topo (7.5 min.)

___ Environmental Lien Search

___ Chain of Title Search

___ NJ MacRaes Industrial Directory Report

___ EDR Telephone Interview

Shipping:

___ Email
___ Express, Next Day Delivery — RUSH SERVICE IS AVAILABLE
___ Express, Second Day Delivery
___ Express, Next day Delivery — Customer Account — Acct # _____
___ Express, Second Day Delivery — Customer Account — Acct # _____
___ U.S. Mail

Thank you

The EDR Aerial Photo Decade Package

SSG Roy Clifton Scouten USARC
271 HEDGES STREET
MANSFIELD, OH 44902

Inquiry Number: 1714247.101

July 12, 2006

EDR® Environmental Data Resources Inc

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 Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDRs professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

This document reports that EDR searched its own collection or select outside repository collections of aerial photography, and based on client-supplied target property information, aerial photography, including the target property was not deemed reasonably ascertainable by Environmental Data Resources, Inc. (EDR). This no coverage determination reflects a search only of aerial photography repository collections that EDR accessed. It can not be concluded from this search that no coverage for the target property exists anywhere, in any collection.

NO COVERAGE

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

"Linking Technology with Tradition"®

Sanborn® Map Report

Ship To: Mary Beth Jacques
CH2M Hill
1569 Stampmill Way
Lawrenceville, GA 30043

Order Date: 7/12/2006 **Completion Date:** 7/13/2006
Inquiry #: 1714247.99s
P.O. #: NA
Site Name: SSG Roy Clifton Scouten USARC
Address: 271 HEDGES STREET
City/State: MANSFIELD, OH 44902
Cross Streets:

Customer Project: NA
1592163BAS 770-338-1589

Based on client-supplied information, fire insurance maps for the following years were identified

1929 - 1 Map
1949 - 2 Maps
1972 - 2 Maps

Limited Permission to Photocopy Total Maps: 5

USER'S GUIDE

This User's Guide provides guidelines for accessing Sanborn Map® images and for transferring them to your Word Processor.

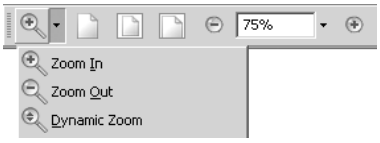
Reading Sanborn Maps

- Sanborn Maps document historical property use by displaying property information through words, abbreviations, and map symbols. The Sanborn Map Key provides information to help interpret the symbols and abbreviations used on Sanborn Maps. The Key is available from EDR's Web Site at: http://www.edrnet.com/reports/samples/key.pdf

Organization of Electronic Sanborn Image File

- Sanborn Map Report, listing years of coverage
- User's Guide
- Oldest Sanborn Map Image
- Most recent Sanborn Map Image

Navigating the Electronic Sanborn Image File

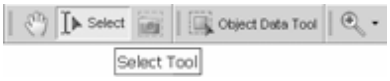


1. Open file on screen.
2. Identify TP (Target Property) on the most recent map.
3. Find TP on older printed images.
4. Using Acrobat® Reader®, zoom to 250% in order to view more clearly. (200-250% is the approximate equivalent scale of hardcopy Sanborn Maps.)
   A. On the menu bar, click "View" and then "Zoom to..."
   B. Or, use the magnifying tool and drag a box around the TP

Printing a Sanborn Map From the Electonic File

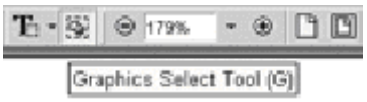
- EDR recommends printing images at 300 dpi (300 dpi prints faster than 600 dpi)
- To print only the TP area, cut and paste from Acrobat to your word processor application.

<u>Acrobat Versions 6 and 7</u>



1. Go to the menu bar
2. Click the "Select Tool"
3. Draw a box around the area selected
4. "Right click" on your mouse
5. Select "Copy Image to Clipboard"
6. Go to Word Processor such as Microsoft Word, paste and print.

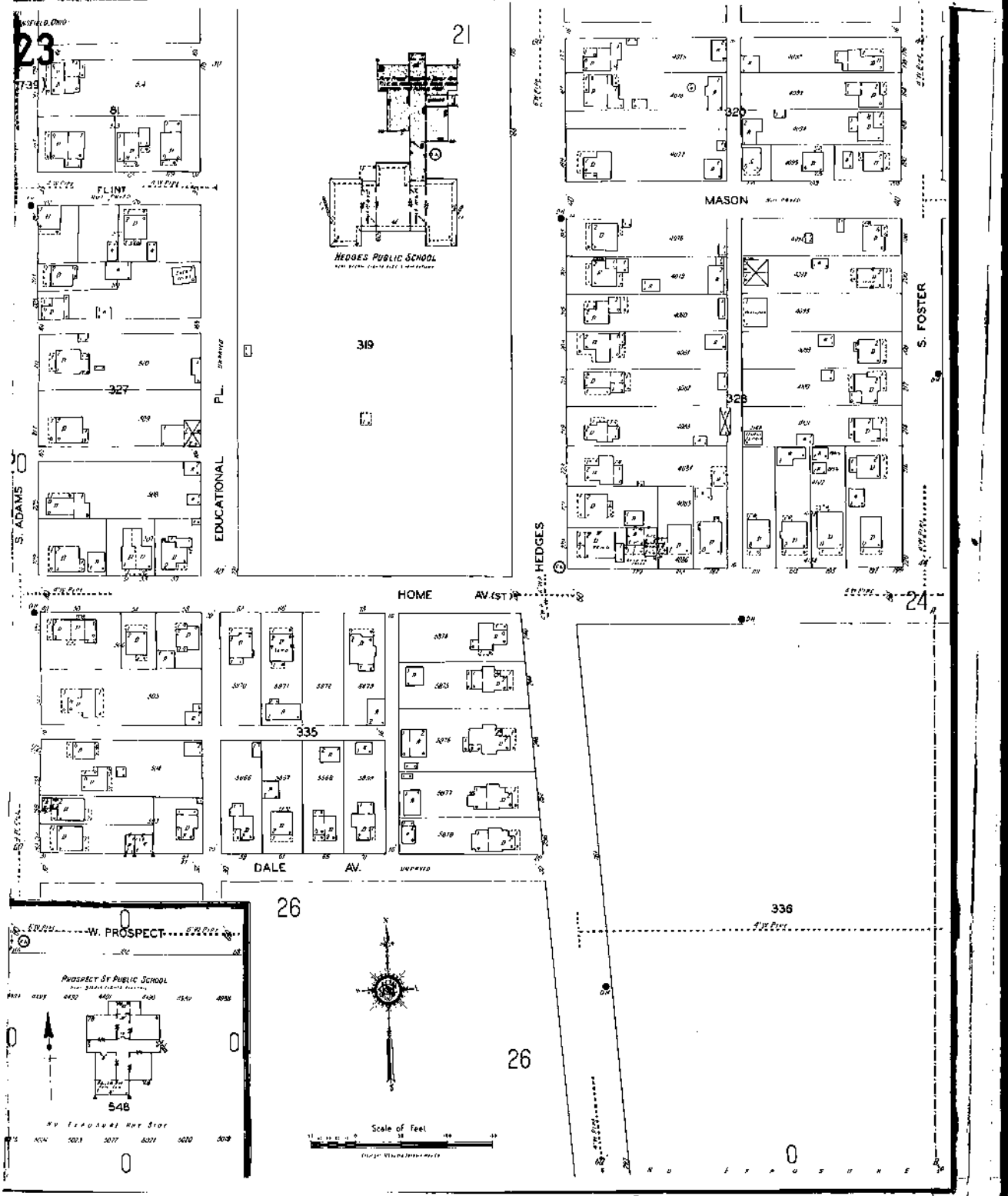
<u>Acrobat Version 5</u>

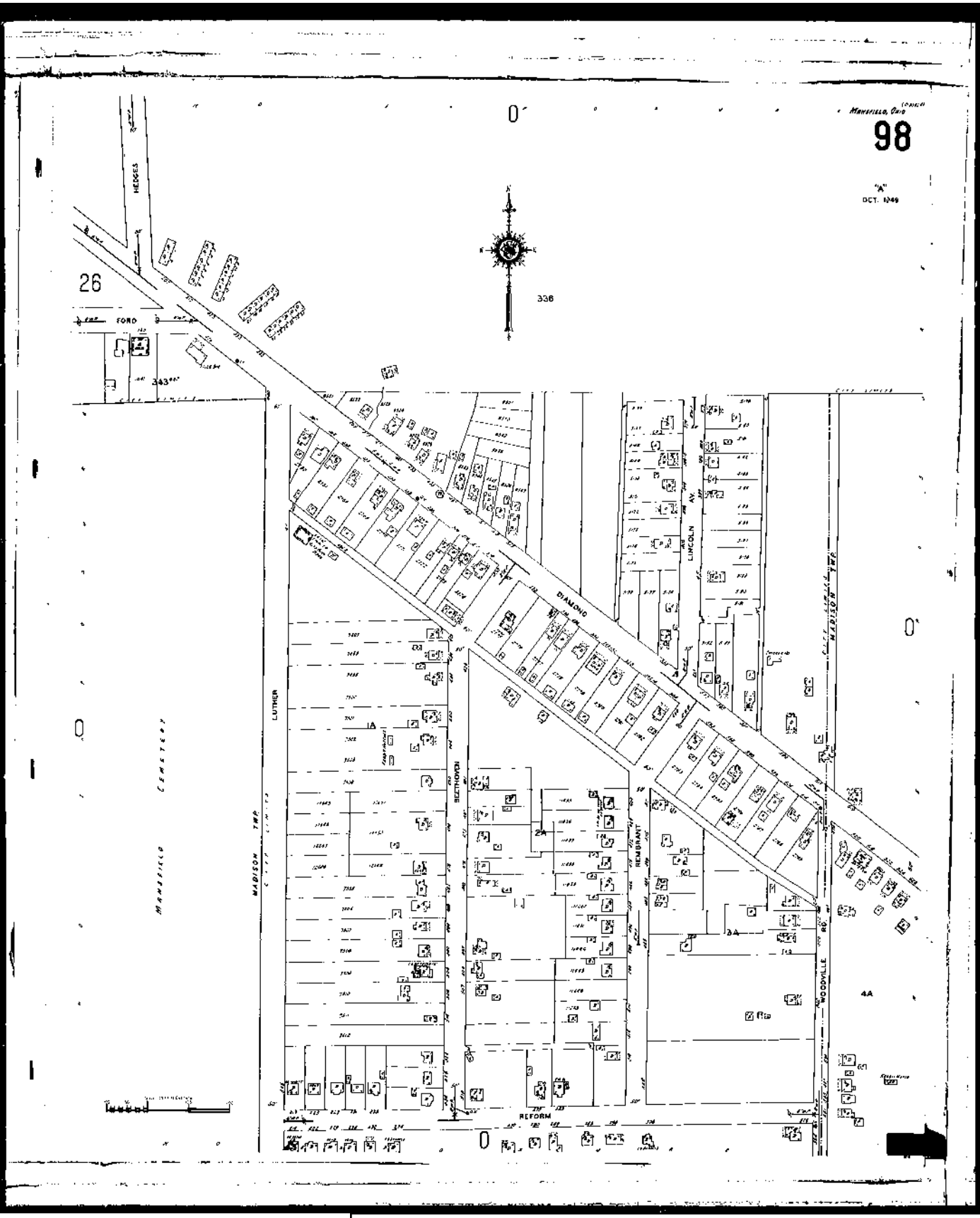


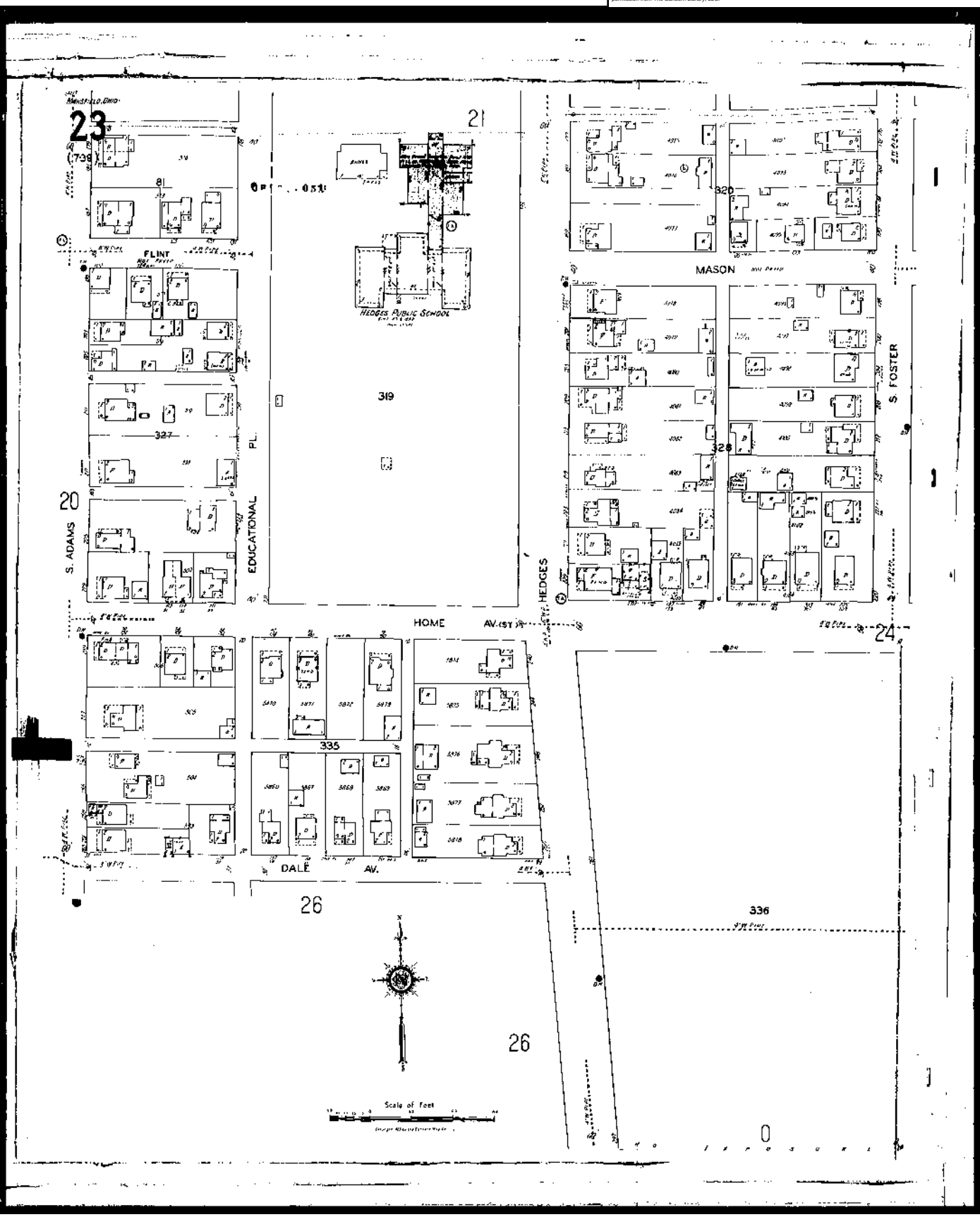
1. Go to the menu bar
2. Click the "Graphics Select Tool"
3. Draw a box around the area selected
4. Go to "Menu"
5. Highlight "Edit"
6. Highlight "Copy"
7. Go to Word Processor such as Microsoft Word, paste and print.

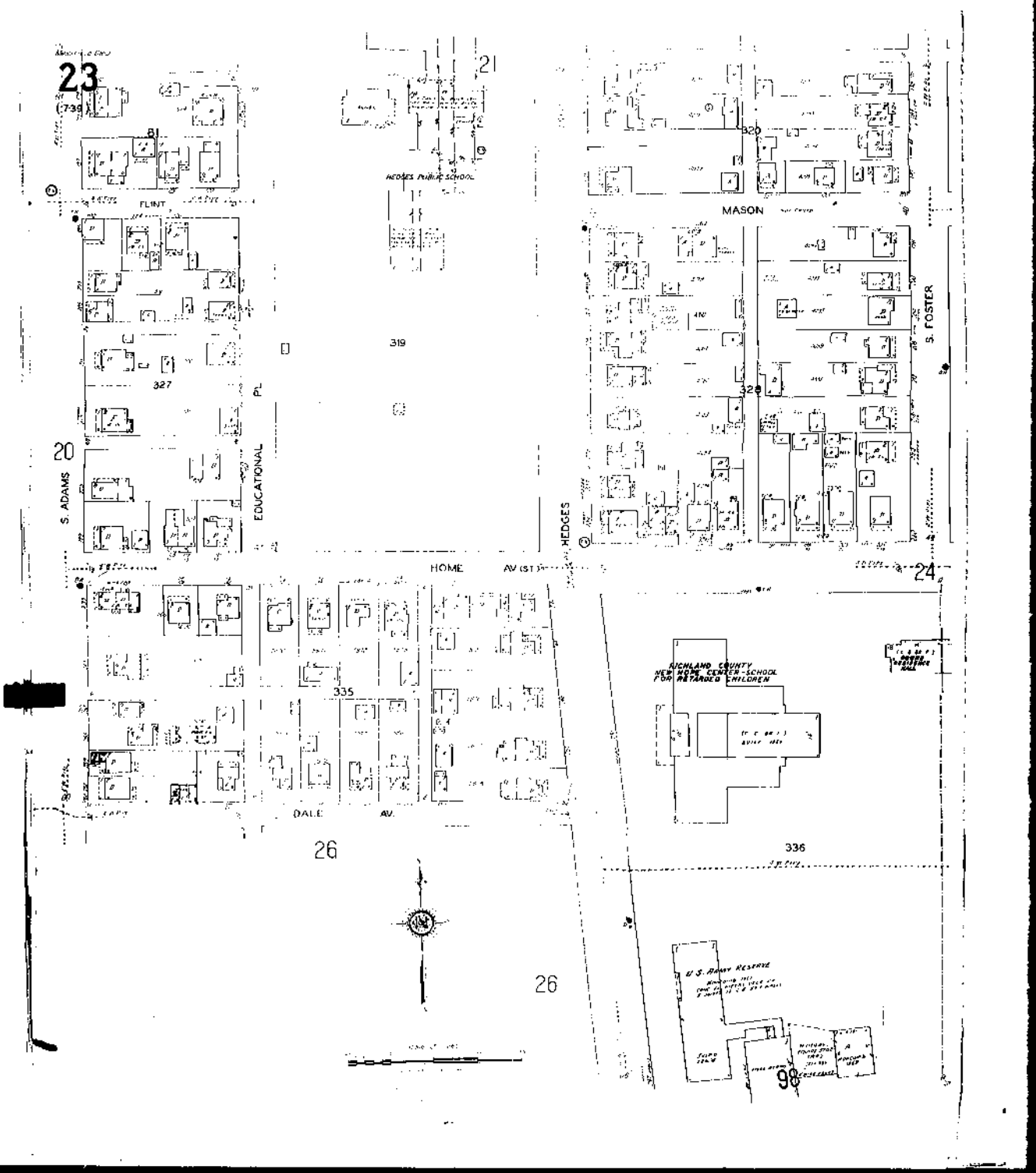
Important Information about Email Delivery of Electronic Sanborn Map Images

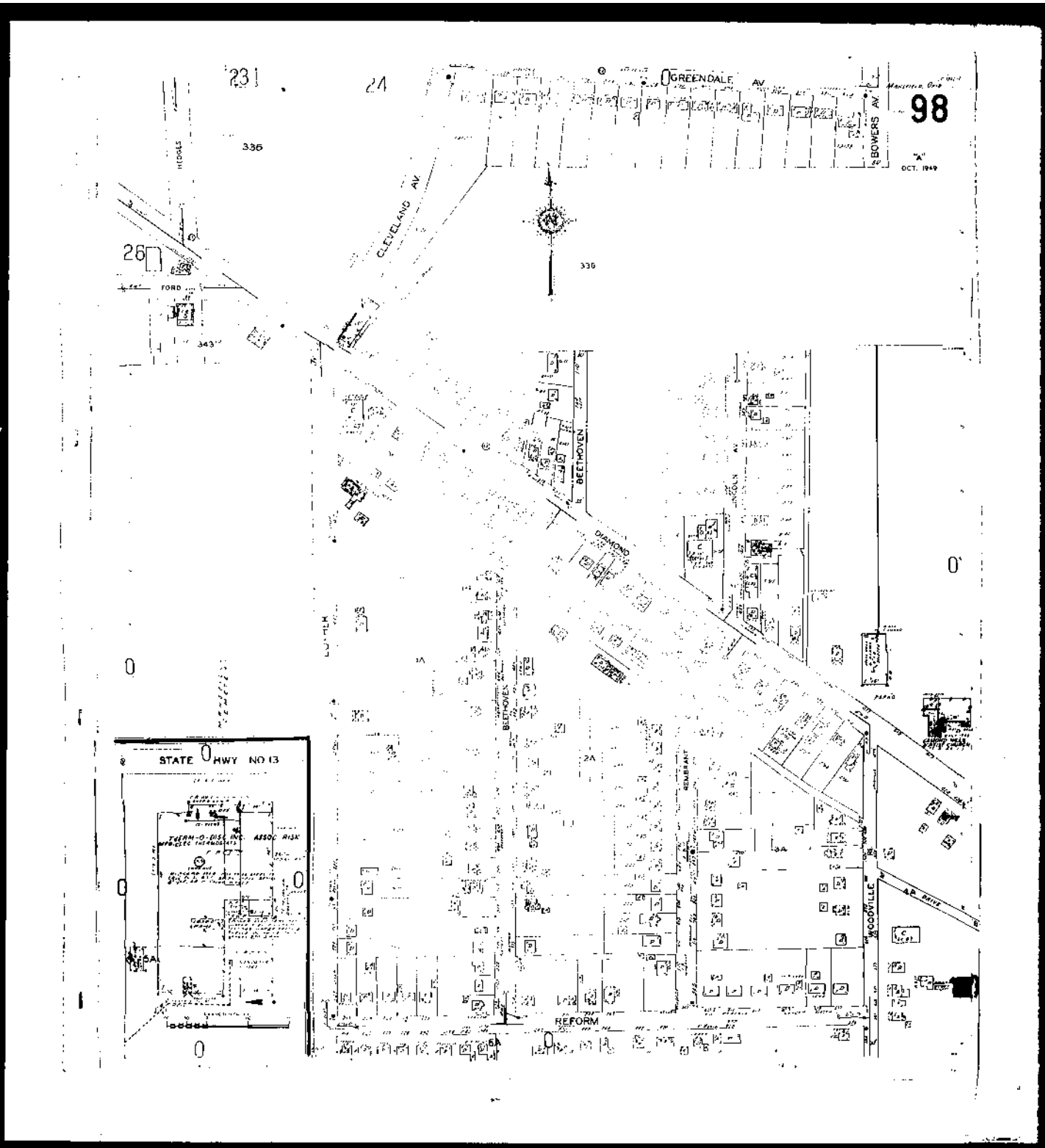
- Images are grouped intro one file, up to 2MB.
- In cases where in excess of 6-7 map years are available, the file size typically exceeds 2MB. In these cases, you will receive multiple files, labeled as "1 of 3", "2 of 3", etc. including all available map years.
- Due to file size limitations, certain ISPs, including AOL, may occasionally delay or decline to deliver files. Please contact your ISP to identify their specific file size limitations.











The EDR-City Directory
Abstract

SSG Roy Clifton Scouten USARC
271 HEDGES STREET
MANSFIELD, OH 44902

Inquiry Number: 1714247.102

Monday, July 17, 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.

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 1967 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 17, 2006

Target Property:
271 HEDGES STREET
MANSFIELD, OH 44902

Year	Uses	Source
1967	Address Not Listed in Research Source	Burch Directory Co
1976	Address Not Listed in Research Source	Burch Directory Co
1986	U S A Reserve Center	Burch Directory Co
1996	US Army Reserve Training	Polk's City Directory
2002	US Army Reserve Training	Polk's City Directory
2005	US Army Reserve Training federal government	Polk's City Directory

Adjoining Properties

SURROUNDING

Multiple Addresses
MANSFIELD, OH 44902

Year	Uses	Source
1967	*Hedges Street*	Burch Directory Co
	Address not listed in research source (255)	Burch Directory Co
	Residence (256)	Burch Directory Co
	Residence (256 1/2)	Burch Directory Co
	Residences (268)	Burch Directory Co
	Address not listed in research source (268 1/2)	Burch Directory Co
	Vacant (272)	Burch Directory Co
	Address not listed in research source (275)	Burch Directory Co
	Address not listed in research source (276)	Burch Directory Co
	Address not listed in research source (277)	Burch Directory Co

Year	Uses	Source
1967	Residence (280)	Burch Directory Co
1976	*Hedges Street*	Burch Directory Co
	Address not listed in research source (255)	Burch Directory Co
	Residence (256)	Burch Directory Co
	Residence (256 1/2)	Burch Directory Co
	Vacant (268)	Burch Directory Co
	Address not listed in research source (268 1/2)	Burch Directory Co
	Residence (272)	Burch Directory Co
	Address not listed in research source (275)	Burch Directory Co
	Apartments (276)	Burch Directory Co
	Address not listed in research source (277)	Burch Directory Co
	Residence (280)	Burch Directory Co
1986	*Hedges Street*	Burch Directory Co
	New hope School (255)	Burch Directory Co
	No Return (256)	Burch Directory Co
	No Return (256 1/2)	Burch Directory Co
	No Return (268)	Burch Directory Co
	Address not listed in research source (268 1/2)	Burch Directory Co
	Vacant (272)	Burch Directory Co
	Juvenile Attention Center (275)	Burch Directory Co
	Apartments (276)	Burch Directory Co
	County Childrens Services (277)	Burch Directory Co

Year	***Uses***	***Source***
1986	No Return (280)	Burch Directory Co
1996	*Hedges Street*	Polk's City Directory
	Richland New hope Sch (255)	Polk's City Directory
	Residence (256)	Polk's City Directory
	No Return (256 1/2)	Polk's City Directory
	No Return (268)	Polk's City Directory
	Residence (268 1/2)	Polk's City Directory
	Residence (272)	Polk's City Directory
	County Juvenile Attention Center (275)	Polk's City Directory
	Vacant (276)	Polk's City Directory
	Vacant (277)	Polk's City Directory
	Residence (280)	Polk's City Directory
2002	*Hedges Street*	Polk's City Directory
	Business Complex (4 occupants) (255)	Polk's City Directory
	Residence (256)	Polk's City Directory
	No Return (256 1/2)	Polk's City Directory
	Address not listed in research source (268)	Polk's City Directory
	No Return (268 1/2)	Polk's City Directory
	No Return (272)	Polk's City Directory
	Richland County Juvenile Court (275)	Polk's City Directory
	Residence (276)	Polk's City Directory
	Residence (280)	Polk's City Directory

Year	***Uses***	***Source***
2005	*Hedges Street*	Polk's City Directory
	Business Complex (7 occupants) (255)	Polk's City Directory
	Residence (256)	Polk's City Directory
	No Return (268)	Polk's City Directory
	No Return (272)	Polk's City Directory
	No Return (276)	Polk's City Directory
	Residence (280)	Polk's City Directory