FINAL

ENVIRONMENTAL CONDITION OF PROPERTY REPORT

CAMBRIDGE MEMORIAL
U.S. ARMY RESERVE CENTER (MN006)
540 FIFTH AVENUE NORTHWEST
CAMBRIDGE, MINNESOTA 55008

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

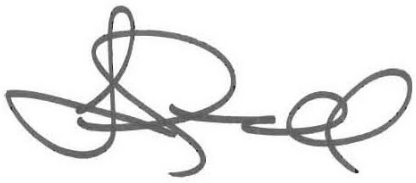
MARCH 2007

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 report.



March 19, 2007

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

Executive Summary

CH2M HILL and Plexus Scientific Corporation (Plexus), under contract to the United States Army Corps of Engineers (USACE), Louisville District, have prepared this Environmental Condition of Property (ECP) Report for the Cambridge Memorial United States Army Reserve Center (USAR Center) (Facility ID MN006), hereafter referred to as the "Property" or "USAR Center." The Property is in Cambridge, Isanti County, Minnesota and encompasses approximately 4.12 acres.

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

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

The USAR Center is on approximately 4.12 acres of land with two permanent structures, a 4,316 square-foot administration building and a 1,313 square-foot organizational maintenance shop (OMS) building. The USAR Center is currently occupied by the 704th Chemical Company Detachment 1.

Based on a review of aerial photographs and United States Geological Survey (USGS) topographical maps dating back to 1938, the Property was open fields used for agricultural purposes prior to acquisition by the U.S. Government in 1959.

Areas of potential environmental concern were reviewed, and CH2M HILL and Plexus found evidence indicating that during the 1992 removal of the 2,000-gallon underground storage tank (UST) associated with the administrative building, petroleum-impacted soil was identified in the vicinity of a broken fill pipe at the end of the tank. The Army remediated this soil concurrent with the removal of the tank by excavating approximately 20 cubic yards of petroleum-impacted soil for off-site thermal treatment. The analysis of soil samples collected from the excavation confirmed that petroleum-impacted soil was removed to below regulatory action levels. The site was back-filled with clean soils and a closure report was submitted to the Minnesota Pollution Control Agency (MPCA), which subsequently approved a Complete Site Closure status in 1993.

In accordance with Department of Defense (DoD) policy defining the classifications (See Sherri Goodman Memorandum dated 21 October 1996), the Property has been classified as Type 2. This classification does not include categorizing the property based on *de minimis* conditions that generally do not present material risk of harm to the public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

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Appendixes

Abbreviations and Acronyms

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

ACM	Asbestos-Containing Material
AMSA	Area Maintenance and Support Activity
AR	Army Regulation
AST	Aboveground Storage Tank
ASTM	American Society for Testing and Materials
BRAC	Base Realignment and Closure
BRRM	Base Redevelopment and Realignment Manual
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	CERCLA Information System
CFR	Code of Federal Regulations
CONEX	Container Express
CORRACTS	Corrective Action Sites
DoD	Department of Defense
DPLP	Delisted from the Permanent List of Priorities
ECP	Environmental Condition of Property
EDR	Environmental Data Resources, Inc.
ERNS	Emergency Response Notification System
FEMA	Federal Emergency Management Agency
HW PERM	Hazardous Waste Permit Unit Project Facilities
kg	kilogram
LBP	Lead-Based Paint
LCP	Closed Landfill Sites Undergoing Cleanup
LUST	Leaking Underground Storage Tank
MDNR	Minnesota Department of Natural Resources
MEC	Munitions and Explosives of Concern
MEP	Military Equipment Parking

mg/L	milligrams per liter
mm	millimeter
MPCA	Minnesota Pollution Control Agency
msl	mean sea level
NGVD	National Geodetic Vertical Datum
NPL	National Priorities List
NRCS	National Resource Conservation Service
NRHP	National Register of Historic Places
ODI	Outstate Dump Inventory
OMS	Organizational Maintenance Shop
OWS	Oil/Water Separator
PCB	Polychlorinated Biphenyl
pCi/L	pcioCuries per liter of air
POL	Petroleum, Oil, and Lubricant
POV	Privately Owned Vehicle
RCRA	Resource Conservation and Recovery Act
RCRIS	RCRA Information System
RQ	Reportable Quantity
RRC	Regional Readiness Command
STATSGO	State Soil Geographic Database
SW PERM	Permitted Solid Waste Facilities
TCLP	Toxicity Characteristic Leachate Procedure
TSD	Treatment, Storage, or Disposal
TSI	Thermal System Insulation
USACE	United States Army Corps of Engineers
USAR	United States Army Reserve
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
UST	Underground Storage Tank
VIC	Voluntary Investigation and Cleanup

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 Cambridge Memorial United States Army Reserve (USAR) Center (MN006). The facility is located at 540 Fifth Avenue Northwest, Cambridge, Isanti County, Minnesota, and is hereafter referred to as the "Property" or "USAR Center." CH2M HILL and Plexus Scientific Corporation prepared this ECP report under contract number W912QR-04-D-0020, Task Order No. 0018, with the Louisville District USACE.

A visual non-intrusive reconnaissance of the Property was conducted on August 2, 2006 in support of the ECP. The reconnaissance purpose was to visually obtain information indicating the likelihood of recognized environmental conditions associated with the Property or adjacent properties.

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

1.1 Purpose of Environmental Condition of Property (ECP)

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

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

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

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

1.2 Scope of Services

This ECP report covers the 4.12-acre Cambridge Memorial USAR Center located at 540 Fifth Avenue Northwest, Cambridge, Minnesota. The Property is bounded by Fifth Avenue Northwest to the south, residential properties to the west and east, and Eighth Avenue Northwest to the north. All site maps, figures and aerial photographs referenced herein are provided in Appendix A, while Appendix B contains the photographs taken during the August 2, 2006 site reconnaissance. Appendix C contains the Property chain of title information, and lease or permit agreements if applicable. Relevant historical environmental documents and reports are provided in Appendix D, while Appendix E contains the Environmental Data Resources, Inc. (EDR) radius search reports commissioned for this effort.

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

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

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

2 Site Location and Physical Description

2.1 Site Location

The Cambridge Memorial USAR Center is located in Isanti County, on the north side of the city of Cambridge, Minnesota, at 540 Fifth Avenue Northwest. Figure 1 in Appendix A shows the site location. The 4.12-acre parcel is situated between city streets, Fifth Avenue Northwest and Eighth Avenue Northwest to the south and north, respectively, and is surrounded on other property boundaries by residential development to the west and east, and a public school to the north.

2.2 Asset Information

Facility Name and Address:	Cambridge U.S. Army Reserve Center 540 Fifth Avenue Northwest Cambridge, Minnesota
Property Owner:	United States Government
Date of Ownership:	April 1, 1959
Current Occupant:	704th Chemical Company Detachment 1
Zoning:	R-1, One Family Residence
County, State:	Isanti, Minnesota
USGS Quadrangle(s):	Cambridge, Minnesota
Section/Township/Range:	Section 29, Township 36 North, Range 23 West
Latitude/longitude:	45 34’ 39”N; 93 13’49.1”W

Legal Description:

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

Being that part of Lot 45 of Auditor’s Subdivision No. 8 in the City of Cambridge, Isanti County, State of Minnesota.

Assessor’s Parcel No: 150411350.

2.3 Physical Description

The Cambridge Memorial USAR Center is located on a 4.12-acre parcel on the northern side of Cambridge, Minnesota. The Property is depicted on the United States Geological Survey

(USGS) 7.5 minute Cambridge Quadrangle map. As shown, the elevation on the Property ranges from approximately 960 feet above mean sea level (msl) in the southern portion to approximately 940 feet above msl in the northern portion. The topography of the southern portion of the Property is generally flat, with a slight decrease in elevation to the north. The topography of the northern portion of the Property steeply slopes to the northern boundary.

The USAR Center contains two permanent structures and two parking lots. Construction of the 4,316 square-foot administration building and the 1,313 square-foot organizational maintenance shop (OMS) building was completed in 1960 and 1961, respectively (Fort McCoy Archaeological Laboratory, 2001; ITI, 2002). Both structures are on concrete foundations, and consist of concrete block walls covered with a brick veneer. A military equipment parking (MEP) area and a privately owned vehicle (POV) parking area are also contained within the Property. Chain-link security fencing topped with barbed wire encloses the MEP area. Figure 2, in Appendix A shows the site layout.

Approximately one-third of the Property is covered by impervious surface features such as asphalt and concrete parking areas, driveways, concrete walkways, and building footprints. The remaining land is grassed with scattered trees and brush on the southern half of the Property.

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

The multi-story OMS building provides unobstructed, open space to perform limited maintenance activities on military equipment. The building contains one service bay with 1-vehicle capacity and is currently used for storage purposes. At the time of the site reconnaissance, no vehicle was present in the OMS and no evidence of recent vehicle maintenance was observed.

2.4 Site Hydrology and Geology

Cambridge Memorial USAR Center and Cambridge are located within the Zimmerman-Lino soil series, which is the most extensive soil association in Isanti County. The topography of the area is level to sloping, but narrow strips of soil on steeper slopes extend into the areas along the drainage ways and around bogs (NRCS, 1959).

Both Cambridge and the Cambridge Memorial USAR Center are found on the USGS 7.5 minute Cambridge quadrangle map (Figure 3). As shown on this map, ground surface elevations at the center average 960 feet msl.

2.4.1 Surface Water Characteristics

Figure 3 in Appendix A provides a portion of the 1983 Cambridge, Minnesota USGS topographic map which includes the Property. As shown, the elevation on the Property ranges from approximately 960 feet above msl in the southern portion to approximately 940 feet above msl in the northern portion. The southern portion of the property is relatively flat and the northern portion drastically slopes downward to the north. In the immediate

vicinity of the Property, the land surface is situated on a plateau like plain that gently slopes towards Rum River located west of the Property.

In general, storm water sheet flows in a northerly direction across the site. Unlined shallow ditches are present to the west and east of the MEP and pavement in the OMS area. These ditches discharged to the steeply sloping northern portion of the Property.

When storm water reaches the low-lying area along the northern boundary, storm water flows to the west and along a ditch along the south side of Eighth Avenue Northwest. Storm water in this ditch appears to collect in a low-lying area to the northwest of the Property. No storm drains are located on the Property, including the MEP area and POV parking area. The nearest storm drain is located along the north side of Fifth Avenue Northwest near the southwestern corner of the Property. The storm drain captures water that sheet flows from the southern edge of the property to Fifth Avenue Northwest. Water that enters this storm drain flows into the municipal storm water system where it flows to the west along Fifth Avenue Northwest to Maple Dell Road where it connects with a storm water lateral pipe that flows north to Eight Avenue Northwest. Storm water then connects with a lateral that flows east where it eventually discharges into a low-lying area near the northeastern intersection of Cypress Street and Eighth Avenue Northwest (located northeast of the Property). This low-lying area is part of the Rum River watershed. The Rum River is located approximately 3,500 feet northwest of storm water outfall.

In a letter dated January 28, 2005, the U.S. Army issued a No Exposure Certification form for the Cambridge Memorial USAR Center. This form states that the facility is in compliance with the requirement for the no Exposure Exclusion as defined in 40 CFR 122.26(g) and the Unites States Environmental Protection Agency (USEPA) *Guidance Manual for Conditional Exclusion from Storm Water Permitting Based on "No Exposure" of Industrial Activities to Storm Water* (U.S. Army, 2005a).

No surface water features are located in the immediate vicinity of the Property. Rum River, located approximately 0.5-mile west of the Property, is the closest major surface water feature. The Rum River ultimately discharges to the Mississippi River.

According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map, Community Panel 27059C0180D, the Property is not included in the 100-year floodplain elevation (EDR 2006, Appendix E).

2.4.2 Hydrogeological Characteristics

According to information acquired from the Soil Conservation Service's State Soil Geographic Database (STATSGO) for Isanti County, specific types of soil at the Property are from the Zimmerman Series. The Zimmerman Series is listed as well-drained fine sands (Class A) with high infiltration rates. The soil beneath the Property does not meet the requirements of a hydric soil (i.e., wetland indicator soils).

The Property is located within the Anoka Sand Plain region and is underlain by approximately 100 feet of unconsolidated sediments, according to regional well logs (Meyer *et al*, 1993). Pleistocene-aged lake sediments associated with the Grantsburg sublobe of the Des Moines glacial lobe are directly beneath the Property. These lake sediments consist primarily of very fine to medium sand with minor amounts of silt. Till deposits associated

with the Grantsburg sublobe and recent alluvium and organic deposits occur elsewhere in the region. The unconsolidated sediments at the Property are underlain by Cambrian-aged sedimentary rocks (Ericson *et al*, 1974).

Based on the "Water-Table Hydrology" for the Anoka Sand Plain Region and the approximate topographic elevations for the Property, the near-surface groundwater occurs under generally unconfined conditions at depths ranging from approximately 15 feet to 30 feet below the surface in the northern and southern portions of the Property, respectively (Palen *et al*, 1993). Based on the topography at the site, the near-surface ground water would be expected to flow in a northerly direction; however, the hydraulic gradient may be locally affected by water wells in the surrounding area (Section 2.6).

Geologic sensitivity is the potential due to geologic characteristics for surface contamination to reach ground water resources. The geologic sensitivity of the uppermost aquifer in the Anoka Sand Plain Study area is generally very high in Isanti County (MDNR, 1991; Meyer, 1993).

The aquifer system in Isanti County is the Uppermost Aquifer in the Anoka Sand Plain. Residents of Isanti County obtain their water solely from ground water resources. The municipal wells provide water for the majority of the residents in Cambridge. Rural residents are served by individual wells (East Central Regional Development Commission, 2005).

2.5 Site Utilities

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

***Sanitary Sewer System*—**The City of Cambridge 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*—**Center Point Energy Minnegasco provides natural gas service to the Property, while East Central Energy provides electric service to the Property.

2.6 Water Supply Wells and Septic Systems

Based upon a review of available historical site and agency records and interviews with site personnel, neither a water supply well nor a septic system is or was located at the Property. Potable water is supplied by the City of Cambridge.

A search of Federal and State water well databases did not identify any water supply sources within a 0.25-mile radius of the property. Forty-three water supply sources were identified within a 0.25 to 1-mile radius of the Property with the nearest wells located approximately 0.5-mile southeast of the Property. These wells are located topographically up-gradient of the Property (EDR, 2006).

3 Site History

3.1 History of Ownership

Land titles for the Property, which are included in the chain of title report in Appendix C, were available back to 1926. According to the chain of title provided by NETR-Real Estate Research & Information, the Property (Assessor's Parcel No: 150411350) was purchased by the United States of America on April 1, 1959, from a group of private citizens (identified in Appendix C). The report did not identify any environmental liens, institutional controls or engineering controls for the USAR Center Property.

Similar to the chain of title, historical documentation (including Warranty Deed – Instrument No. 92456, Deed Record No. 50, page 45) provided by the U.S. Army indicated that the United States government purchased the unimproved 4.12 acres in March 1959 from a group of private citizens (U.S. Army, 1959).

According to a City Directory *Abstract* provided by EDR and dated July 13, 2006, there is "No Coverage" for address of the USAR Center and the immediate area around the Property. A copy of the City Directory *Abstract* is included in Appendix E.

3.2 Past Uses and Operations

In 1959, the U.S. Government purchased the 4.12 acres of land for construction of the USAR Center (U.S. Army, 1959). Construction of the administration building and OMS building occurred in 1960 and 1961, respectively (Fort McCoy Archaeological Laboratory, 2001). Historical information sources suggest that the Property was formerly undeveloped and utilized for agricultural purposes. The Property has served as a reserve and mobilization center for the USAR since the U.S. Government acquired the land in 1959.

The Property primarily functioned as an administrative, logistical, and educational facility, with limited maintenance of military vehicles occurring in the OMS building. The Property was historically used by reservists for drill activities on various weekends throughout the year. The 704th Chemical Company Detachment 1 is the current unit at the USAR Center. The mission of this unit is to provide nuclear, biological and chemical reconnaissance support in the Forward Theater of Operations. At the time of the site reconnaissance, the administration building contained various items, including desks, office furniture, folding tables, military clothing, hazardous material responder equipment, and miscellaneous office equipment.

The OMS building was previously used to perform limited maintenance activities on military equipment. Activities inside the OMS building were limited to preventative maintenance checks, including checking vehicle fluids such as lube oil, water, and antifreeze, and light maintenance activities. Any equipment requiring heavier maintenance activities was sent to an Area Maintenance Support Activity (AMSA) shop located at one of

the other Reserve Centers in Minnesota. Equipment requiring major overhaul was also sent offsite.

At the time of the site reconnaissance, the OMS building contained a 50-gallon drum for used absorbents, a 50-gallon drum for clean absorbents, empty 5-gallon water containers, light bulbs, plastic tubing, tents, and other miscellaneous parts and supplies. A flammable storage cabinet in the OMS contained small quantities (one gallon or less) of paints, personal tick repellant, and charcoal lighting fluid. A second flammable storage cabinet in the OMS contained small quantities (one gallon or less) of automatic transmission fluid, lube oil, deicer, grease, and diesel fuel supplement (see Photograph 12 in Appendix B). A storage room located in the OMS building was locked and not accessible at the time of the site reconnaissance. According to the Minnesota State Environmental Manager for the 88th Regional Readiness Command (RRC), the storage room was empty.

At the time of the site reconnaissance, two four-wheeled military vehicles were located in the fenced MEP. Also present in the MEP were a hazardous materials storage shed and Container Express (CONEX) box. Neither the flammable storage shed nor CONEX box could be accessed at the time of the site reconnaissance. According to the Minnesota State Environmental Manager for the 88th RRC, the flammable storage shed contains small quantities (two gallons or less) of automatic transmission fluid, brake fluid, lube oil, and anti-freeze. The CONEX box was reportedly empty.

Vehicle washing would have historically occurred outside of the OMS building on the concrete paved area to the west of the building. Floor drains were not present in the OMS building. No drains were located in the suspected vehicle washing area and wash water would have radially flowed over the paved surface onto the grassed areas surrounding this area. At the time of the site reconnaissance, the concrete was in good condition and no large cracks were visible; however, numerous expansion joints are present. Wash water that did not infiltrate the underlying sandy soil around the suspected wash area would have flowed into the shallow unlined ditches to the west and east of paved area. These ditches discharged to the steeply sloping northern portion of the Property. An oil/water separator (OWS) was not located on the Property. A USAR Facility Environmental Assessment Report, dated 1996, recommended that an OWS be installed on the Property to pass storm water runoff from the MEP through an OWS (U.S. Army, 1996). However, according to the Minnesota State Environmental Manager for the 88th RRC, an OWS was never installed on the Property. No information indicating the use of degreasing agents on vehicles on the Property was identified during this survey. Nor was there any evidence to the frequency of use at this suspected wash area. Fluids generated at the suspected wash rack area (likely containing POLs) would have been diluted with water from spray hoses, thus only de minimis quantities would be suspected to have the potential to be released.

Historical aerial photographs and topographic maps were the primary source of information on the past use and operations at the Property. Figures 3 - 9 in Appendix A provide USGS topographical maps and aerial views of the Property and surrounding areas in 1938, 1957, 1961, 1965, 1973, 1983, and 1991.

The 1938 aerial photograph (Figure4, Appendix A) shows the Property and adjacent properties as undeveloped and used for agricultural purposes. The 1957 aerial photograph (Figure 5, Appendix A) still shows the Property and adjacent properties as undeveloped;

however, land clearing activities are evident to the west and south. The Property and adjacent properties to the north and east still appear to be used for agricultural purposes. A road (Fifth Avenue Northwest) is now present. Also evident in the 1957 aerial photograph is the baseball diamond to the southwest of the Property.

The 1961 USGS topographical map (Figure 6, Appendix A) shows the Property and areas to the north as undeveloped. Residential development is visible west, east, and south of the Property. The City of Cambridge is established to the south and southeast. The high school, presently located north of the Property has not yet been constructed.

The 1965 aerial photograph (Figure 7, Appendix A) shows the Property as it presently exists with the exception of present day trees and brush. The adjacent properties to the east, north, and south are undeveloped and appear to be grassed fields. A small unpaved vehicular path (oriented in a north-south direction) is evident on the adjacent property to the east. This road appears to provide access from Fifth Avenue Northwest to the agricultural field further to the north of the Property. Four single-family residences are located to the west (including the western adjacent property) of the Property. Additional single-family residences are present further to the east and southeast of the Property.

The 1973 aerial photograph (Figure 8, Appendix A) shows the Property and western adjacent property relatively unchanged from the 1965 aerial photograph. A tree line is located along the northern portion of the eastern property boundary. Single-family residences have been constructed on the adjacent properties to the east and south. The high school is present on the adjacent property to the north; however, the abutting property still appears mostly grassed and undeveloped. A baseball diamond is present on the northern portion of the eastern adjacent property. Three additional residences have been constructed on the adjacent property to the west (northern portion).

The 1983 USGS topographical map (Figure 3, Appendix A) shows the OMS building but not the administrative building. The high school is depicted to the north of the Property.

The 1991 aerial photograph (Figure 9, Appendix A) shows the Property and adjacent properties to the west, east, and south relatively unchanged from the 1965 aerial photograph. Numerous vehicles are parked in the MEP and POV areas. A paved parking area and tennis courts appear to have been constructed on the high school property adjacent to the north of the Property. Additional single-family residences have been constructed to the west and northwest of the Property.

No staining or distressed areas were discernible on the Property in the reviewed aerial photographs.

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

3.3.1 Past Use and Storage of Hazardous Substances

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

formerly used and stored at the Property were associated with vehicle and facility maintenance activities, and janitorial services. Janitorial chemicals and building maintenance-related products were stored in the designated storage area within the janitorial closet located in the administration building. Vehicle maintenance products and small amounts of petroleum, oil, and lubricant (POL) products were also stored within designated areas within the OMS building. Other potentially hazardous materials and POL products would have been stored in the outdoor hazardous material storage shed located west of the OMS building within the MEP area.

Certain types of chemical products used and stored at the Property would have contained CERCLA hazardous substances and would have been stored on a rotational basis in amounts necessary to support the unit through direct support level maintenance. However, there is no indication that CERCLA hazardous substances 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 Army Reserve personnel. According to Army Reserve personnel and site records, there is no evidence that hazardous substances above reportable quantities were released or disposed at the Property. No stained soil or stressed vegetation was observed during the August 2, 2006, site reconnaissance. Additionally, the MEP area and POV parking area did not show any signs of staining and no noxious or foul odors were noted during the site reconnaissance.

3.4 Past Presence of Bulk Petroleum Storage Tanks

Based upon a review of available site records, a search of Federal and State environmental databases, and interviews with Army Reserve personnel, it was determined that two underground storage tanks (USTs) were previously located at this facility (Tank 1 and Tank 2), but they were removed on August 25, 1992. The former 2,000-gallon and 1,000-gallon USTs were used to store fuel oil used to heat the administrative and OMS buildings, respectively. The former 2,000-gallon UST was located near the northwest corner of the administration building and the former 1,000-gallon UST was located near the northeast corner of the OMS building (see Photographs 5 and 6, Appendix B) (U.S. Army, 1992).

During the removal of the 2,000-gallon UST, petroleum-impacted soil was identified in the vicinity of a broken fill pipe at the end of the tank. The quantity of discharged fuel due to the broken fill pipe was unknown. The Army remediated affected soil during the August 25, 1992, removal of the tank by excavating approximately 20 cubic yards of petroleum-impacted soil. The petroleum-impacted soil was removed from the Property for off-site thermal treatment, as approved by the Minnesota Pollution Control Agency (MPCA). Organic vapor field screening and confirmatory laboratory analysis of soil samples collected from the excavation confirmed that petroleum-impacted soil was removed to below regulatory action levels. The site was back-filled with clean soil and a closure report submitted to the MPCA for concurrence (U.S. Army, 1992). According to the EDR database

report, the MPCA subsequently granted the facility a Complete Site Closure status on January 20, 1993 (EDR, 2006).

Other potential petroleum-related environmental conditions include a suspected vehicle washing area and the MEP. A concrete paved area is located outside of the OMS building, presumably used historically for vehicle washing. There was no information regarding the frequency of use at this suspected wash area. No drains were located in the suspected vehicle washing area, therefore, wash water would have radially flowed over the paved surface onto the grassed areas surrounding this area. At the time of the site reconnaissance, the concrete was in good condition and no large cracks were visible; however, numerous expansion joints are present. Fluids generated at the suspected vehicle wash area (primarily containing POLs) would have been diluted with water from spray hoses, thus only de minimis quantities would be suspected to have the potential to be released.

A USAR Facility Environmental Assessment Report, dated 1996, recommended that an OWS be installed on the Property to pass storm water runoff from the MEP through an OWS (U.S. Army, 1996). However, according to the Minnesota State Environmental Manager for the 88th RRC, an OWS was never installed on the Property. No information indicating the use of degreasing agents on vehicles on the Property was identified during this survey. Typically, any leaks from vehicles on the MEP would have occurred in de minimis quantities.

3.5 Review of Previous Environmental Reports

A review of site records identified 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 1992 Final Report for Underground Storage Tank Removals

The report, prepared by the U.S. Army Fort McCoy, documented the removal of one 2,000-gallon and one 1,000-gallon UST from the Property on August 25, 1992. The former 2,000-gallon and 1,000-gallon USTs were used to store fuel oil used to heat the administrative and OMS buildings, respectively. The report also documents the excavation and disposal of approximately 20 cubic yards of petroleum-impacted soil (conducted concurrently with the removal of the tanks) identified near a broken fill pipe at the end of the 2,000-gallon tank. The petroleum-impacted soil was removed from the Property for off-site thermal treatment. Organic vapor field screening and confirmatory laboratory analysis of soil samples collected from the excavation confirmed that petroleum-impacted soils were removed to below regulatory action levels. The site was back-filled with clean soils and a closure report submitted to the MPCA for concurrence (U.S. Army, 1992). The MPCA subsequently granted the facility a Complete Site Closure status on January 20, 1993 (EDR, 2006).

3.5.2 1996 Environmental Facility Assessment Report

The Fort Snelling Facility Evaluation Team performed an Environmental Facility Assessment Report in May 1996 for the Cambridge Memorial USAR Center. This assessment included an external environmental compliance assessment for the facility. Results of the assessment indicated the presence of no significant environmental issues. It was

recommended that an OWS be installed on the Property to pass storm water runoff from the MEP through an OWS (U.S. Army, 1996).

3.5.3 2000 Internal Environmental Assessment

The U.S. Army Reserve performed an internal environmental assessment in 2000, listing and evaluating areas on the Property where environmental concerns were apparent. Four areas were noted as needing correction at the time of the assessment. The deficiencies included the following: no hazardous materials spill plan, no presence of asbestos survey identifying asbestos-containing materials (ACM), hazardous materials inventory was not available, and flammable materials were not stored in flammable storage cabinets. None of the deficiencies observed posed an immediate risk to the environmental condition at the Property (U.S. Army, 2000).

3.5.4 2001 Cultural Resources Report

A Section 110 cultural resources survey report for the facility was prepared for the 88th RRC by the Fort McCoy Archaeological Laboratory in 2000. The purpose of the survey and subsequent report was to inventory all properties controlled or leased by the 88th RRC in the state of Minnesota. Historical information, setting and landscape, cultural resources, security, architectural information, and structure descriptions are included for each property. Each site was also assessed for its eligibility to the National Register of Historic Places (NRHP). No facilities at the Cambridge Memorial USAR Center were eligible for listing on the NRHP (Fort McCoy Archaeological Laboratory, 2001).

3.5.5 2001 Cross Connection Backflow/Prevention Program Report

The report's objective was to locate and identify the occurrences of cross-connection protection code violations, if any, and make the appropriate backflow prevention device recommendations to correct any deficiencies. Code requirements, facility inspection checklists, and recommendations were included in the report. Deficiencies were noted within the buildings and corrective actions were recommended (U.S Army Corps of Engineers, 2001).

3.5.6 2002 Environmental Survey Report: Asbestos, Polychlorinated Biphenyl (PCB), Lead-Based Paint (LBP), and Radon Survey

ITI of South Florida, Inc. prepared an Environmental Survey Report in May 2002 for the Cambridge Memorial USAR Center. Potential types, quantities, locations, and conditions of asbestos, PCBs, LBP, and radon were examined in the report. Confirmed asbestos was found to be present in the administrative building. Approximately 28 thermal system insulation (TSI) elbows (friable) are present in the mechanical room in the northwestern corner of the administrative building. Also present in the mechanical room is approximately 250 square feet of friable duct work TSI known to contain asbestos. An inspection during the 2002 survey and 2006 site reconnaissance, revealed this material to be in good condition. The asbestos containing roofing flashing is non-friable and was noted to be in good condition during the 2002 survey.

Light ballasts containing labels stating "No PCB's" were observed during the PCB survey in both buildings. A transformer with a "No PCB's" label was also observed on the Property.

Building products consisting of door jambs and ceramic tile walls in the administrative and OMS buildings contained LBP. All measured radon levels were below USEPA's recommended action level of 4 pCi/L of air (ITI, 2002).

3.5.7 2005 Environmental Facility Assessment Report

The Northwest Facility Engineer Center of Fort McCoy prepared an Environmental Facility Assessment Report in March 2005 for the Cambridge Memorial USAR Center. This assessment included an external environmental compliance assessment for the facility. Results of the assessment indicated the presence of no serious environmental issues. Ten findings were identified for the two buildings located on the Property. Four findings were administrative documentation and environmental survey related. The remaining six findings were minor waste labeling and storage issues. Areas of concern identified by the Northwest Facility Engineer Center as needing corrective actions/improvements included (U.S. Army, 2005b):

- Environmental training;
- Environmental documentation;
- Ensure that all hazardous materials are labeled and stored in an appropriate fashion;
- Identify items with expired shelf life of disposal (paints, POLs);
- Properly secure all fire extinguishers and compressed gas cylinders; and
- Inadequate flammable/combustible storage.

3.5.8 2005 Natural Resources Survey

A report entitled *United States Army Reserve 88th Regional Readiness Command Natural Resources Survey – Minnesota* was prepared for the 88th RRC in an effort to inventory and manage natural resources found at 88th RRC facilities in Minnesota. The report findings indicated that the Cambridge Memorial USAR Center did not contain any key natural resources, including wetlands, possible threatened and endangered species, and/or the presence of threatened and endangered species habitat (U.S. Army, 2005c).

4 Adjacent Properties

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

4.1 Land Uses

Land use south of the USAR Center is city right- of- way for Fifth Avenue Northwest, a two-lane undivided and paved city street. Five single-family residences are directly south of the USAR Center on the south side of the street.

A single-family residence is located due east of the Center, along Fifth Avenue Northwest. To the north of the single-family residence is a baseball diamond which is adjacent to the northern portion of the Property.

Land use north of the USAR Center is city right- of- way for Eighth Avenue Northwest, a two-lane undivided and paved city street. The Cambridge-Isanti High School is located north of the USAR Center on the north side of the street.

Four single-family residences are located on the adjacent property to the west.

Table 1 summarizes the current adjacent properties and zoning.

TABLE 1
List of Properties Adjacent to Cambridge Memorial USAR Center, Cambridge, Minnesota

Name/Type of Property	Address	Distance and Direction from Property	Zoning	Remarks
Single-Family Residences (5)	503 Fifth Avenue NW 509 Fifth Avenue NW 523 Fifth Avenue NW 533 Fifth Avenue NW 543 Fifth Avenue NW Cambridge, MN 55008	Approximately 75 feet south	R-1A, One Family Residence	
Single-Family Residence	508 Fifth Avenue NW Cambridge, MN 55008	Adjacent to East	R-1A, One Family Residence	
Baseball Diamond	None Available	Adjacent to East	R-1, One Family Residence	
Cambridge-Isanti High School (ISD #911)	430 Eighth Avenue NW Cambridge, MN 55008	Approx. 75 ft north	R-1, One Family Residence	Removed 10 cubic yards of hydraulic fluid affected soil; Complete Site Closure on December 22, 1989; Two active USTs
Single-Family Residences (4)	610 Fifth Avenue NW 514 Winnetka Place 526 Winnetka Place 538 Winnetka Place Cambridge, MN 55008	Adjacent to West	R-1A, One Family Residence	

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 Cambridge-Isanti High School was listed as a State Leaking UST (LUST) site with a reported leak of hydraulic oil on October 10, 1989. On October 10, 1989 approximately 10 cubic yards of contaminated soils were excavated at the site. The facility has a complete site closure date of December 22, 1989. The Cambridge-Isanti High School is also listed as an active State UST site with one 10,000-gallon fuel oil UST and one 560-gallon used oil UST.

These active fuel oil and used oil tanks were installed in 1986 and 1998, respectively. In addition, one 1,000-gallon used oil UST, installed in 1986, has been removed from the site.

The Cambridge-Isanti High School is also listed as a conditionally exempt small quantity generator of hazardous waste. No violations have been reported for the facility. The Cambridge Memorial USAR Center property is located topographically up-gradient of the Cambridge-Isanti High School property.

Water well databases at the Federal and State level were reviewed to identify any water supply source near the Property. Forty-three water supply sources were identified within a 0.25 to 1-mile radius of the Property with the nearest wells located approximately 0.5-mile southeast of the Property. These wells are located topographically higher than the Property.

Land use at adjacent properties does not appear to have changed significantly over the years, based on a review of available aerial photographs. Based on the 1938 aerial photograph (Figure 4), the property was open fields used for agricultural purposes in 1938. Development in the surrounding areas further to the south and southeast began prior to 1938. Development of single-family residences on the properties to the west, east, south began between 1957 and 1965 (Figures 5 and 7, respectively). The Cambridge-Isanti High School to the north was constructed between 1965 and 1973 (Figures 7 and 8, respectively). With the exception of additional single-family residences, the 1973 and 1991 aerial photographs (Figures 8 and 9, respectively) indicated little change in the adjacent property land use.

Based on reasonably available information the environmental condition of the Property has not been affected by the adjacent properties.

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 13, 2006. EDR provides a regulatory database summary that consolidates standard federal, state, local, and tribal environmental record sources based on ASTM recommended minimum search distances from the Property.

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

5.1 Federal Environmental Records

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

USEPA maintains a record of the nations' 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 Cambridge Memorial USAR Center is not an NPL site, nor was any such sites located within 1 mile of the Property.

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

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

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

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

RCRA corrective action (CORRACTS) sites represent facilities that have generated or managed hazardous wastes and require corrective action. The Cambridge Memorial USAR Center is not a CORRACTS site, nor was any such sites identified within 1 mile of the USAR Center.

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

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

The Cambridge Memorial USAR Center is not a RCRIS-TSD site and there are no such sites located with 0.5-mile of the USAR Center.

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

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

The Cambridge Memorial USAR Center is not listed as a RCRA-registered small or large quantity generator. Based on available information the USAR facility has not generated any RCRA waste for many years.

One adjacent property owner is a RCRA-registered small quantity generator. Cambridge-Isanti High School is located within 0.125–mile of the Property, approximately 700 feet northeast of the Property. No RCRA violations were noted for this site.

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

5.1.6 Federal Emergency Response Notification System (ERNS) List

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

5.2 State and Local Environmental Records

Most of the information presented in this subsection was obtained from the EDR report. Additional information was also obtained from online database searches of the MPCA's database. 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 Cambridge Memorial USAR Center is not on the state list of hazardous waste sites.

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

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

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

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

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

In addition to information obtained from the EDR report, the MPCA maintains a comprehensive database of LUST sites. The USAR Center is listed in the State LUST database (MPCA Leak ID 5591). During the removal of the 2,000-gallon UST on August 25, 1992, petroleum-impacted soils were identified. Concurrent with the removal of the UST, approximately 20 cubic yards of petroleum-impacted soils were excavated (U.S. Army, 1992). According to the EDR database report, the MPCA granted the facility a Complete Site Closure status on January 20, 1993 (EDR, 2006).

In addition, within 0.5-mile of the Center, six LUST sites that have all received complete site closure were identified. Table 2 summarizes their information relative to the USAR Center, and provides the status of their corrective action. The nearest LUST site, the Cambridge-Isanti High School, resulted from a release of hydraulic fluid that was not associated with a storage tank. The Cambridge-Isanti High School LUST site has been closed with a complete site closure status indicating it does not pose a threat to human health and the environment and therefore, will not have an environmental impact on the Property. In addition, the Cambridge-Isanti High School is located down gradient of the Property and, therefore, potential offsite migration from this site will not impact the Property. The remaining five LUST sites are greater than 0.25-mile of the Center and based on this distance have a low potential to impact the Property (EDR, 2006).

TABLE 2
Leaking Underground Storage Tank Sites
Near Cambridge Memorial USAR Center, Cambridge, Minnesota

Company/Site	Address	Distance and Direction from Property	Regulatory Status	Elevation Relative to Property
Cambridge-Isanti High School	430 Eighth Avenue NW Cambridge, MN 55008	Approx 700 ft north	Complete Site Closure: 12/22/1989	Lower
Former Starr Service Station	506 N Main Street Cambridge, MN 55008	Approx 2,100 ft southeast	Complete Site Closure: 11/18/2002	Equal
Community State Bank	205 N Main Street Cambridge, MN 55008	Approx 2,100 ft north	Complete Site Closure: 12/29/1994; however, contaminated soils remain	Equal
US West	117 S Ashland Cambridge, MN 55008	Approx 2,200 ft southeast	Complete Site Closure: 11/09/1990	Higher
Former Gillespies Garage	115 N Main Street Cambridge, MN 55008	Approx 2,300 ft southeast	Complete Site Closure: 02/14/2005; however, contaminated soils remain	Equal
Cambridge Parking Lot	Ashland and 2nd Avenue Southwest Cambridge, MN 55008	Approx 2,500 ft north	Complete Site Closure: 03/06/2003; however, contaminated soils remain	Higher

5.2.4 State-Registered UST Sites within 0.5 Mile

Review of the EDR report and the MPCA's UST database, the Property itself was listed in the State UST database. Two fuel oil USTs associated with this facility were removed from the Property on August 25, 1992.

During the removal of the UST near the administrative building, petroleum-impacted soils were identified in the vicinity of a broken fill pipe at the end of the tank. The Army remediated these soils during the August 25, 1992 removal of the tank by excavating approximately 20 cubic yards of petroleum-impacted soils. The petroleum-impacted soils were removed from the Property for off-site thermal treatment. Organic vapor field screening and confirmatory laboratory analysis of soil samples collected from the excavation confirmed that petroleum-impacted soils were removed to below regulatory action levels. The site was back-filled with clean soils and a closure report submitted to the MPCA for

concurrence. The MPCA subsequently granted the facility a Complete Site Closure status on January 20, 1993.

Additionally, one UST site was identified within 0.25-mile of the Cambridge Memorial USAR Center. Table 3 lists the sites along with the tank(s) status.

The Cambridge-Isanti High School is also listed as an active State UST site with one 10,000-gallon fuel oil UST and one 560-gallon used oil UST. These active fuel oil and used oil tanks were installed in 1986 and 1998, respectively. The 10,000-gallon fuel oil tank is constructed of steel and the 560-gallon used oil tank is constructed of double walled fiberglass or fiberglass-reinforced plastic. In addition, one 1,000-gallon used oil UST, installed in 1986, has been removed from the site. No documented releases have been reported for these tanks.

Based upon the condition of the present USTs and the nature of the release associated with the previous release at Cambridge-Isanti High School (LUST – Section 5.2.3), the property is not considered to present an environmental risk to the USAR Center. Additionally, the property is located topographically down gradient from the USAR Center.

TABLE 3
Underground Storage Tank Sites
Near Cambridge Memorial USAR Center, Cambridge, Minnesota

Company/Site	Address	Distance and Direction from Property	Tank Status	Closure Status	Elevation Relative to Property
USAR Center	540 5th Avenue NW Cambridge, MN 55008	Property	Inactive	2 Tanks Removed	Property
Cambridge-Isanti High School	430 Eighth Avenue NW Cambridge, MN 55008	Approx 699 ft north	2 Tanks-currently active	1 Tank - Removed	Lower

5.2.5 State Spills Incidents

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

5.2.6 Records of Contaminated Public Wells within 1 Mile

The EDR report identified 43 water supply sources within a 0.25 to 1 mile radius of the Property with the nearest wells located approximately 0.5-mile southeast of the Property. These wells are located topographically higher than the Property. One of these wells is owned and operated by the City of Cambridge Water Department. The City of Cambridge Water Department confirmed that this well is still online and producing potable water passing federal drinking water standards.

5.2.7 Voluntary Remediation Program Sites within 0.5 Mile

The USAR Center is not listed in Minnesota's Voluntary Investigation and Cleanup (VIC) or Brownfield's programs. No sites located within 0.5-mile of the Center are listed as being in the VIC or Brownfield programs.

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

The Cambridge Memorial USAR Center is not registered with the state as a bulk fertilizer and pesticide storage facility. Additionally, no properties within 0.25-mile were 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, can not be mapped from the EDR results alone. Additional efforts described herein were made to locate these sites and assess their environmental importance to the USAR Center.

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

5.4 Summary of Properties Evaluated to Determine Risk to the Property

To summarize Subsections 5.1 through 5.3, the Cambridge-Isanti High School located adjacent to the north (across Eighth Avenue Northwest) of the USAR Center, was evaluated as potential risk property to the Property. The adjacent property evaluated was identified as a result of information obtained during area reconnaissance, interviews, and regulatory database searches, and is summarized below in Table 4.

Based on an evaluation of available site information and details concerning the properties listed in Table 4, the facility evaluated does not exhibit significant environmental conditions that have the probability of adversely affecting the environmental conditions at another site.

TABLE 4
Properties Evaluated for Potential Environmental Risks
Cambridge Memorial USAR Center, Cambridge, Minnesota

Company/Site	Database	Elevation Relative to Property?	Potential Impact on the Property?	Comments
Cambridge-Isanti High School	RCRA-SQG, LUST, UST	Lower	No	Hydraulic fluid release and cleanup of 10 cubic yards of affected soil. Site received closure on 12/22/1989. No violations associated with USTs or RCRA-SQG status.

6 Site Investigation and Review of Hazards

Findings documented in the following subsections are based on the August 2, 2006 site reconnaissance, a review of available site records, and information obtained from USAR personnel.

6.1 USTs/ASTs

Two fuel oil UST associated with this facility were removed from the Property on August 25, 1992 (see Photographs 5 and 6, Appendix B).

During the removal of the UST near the administrative building, petroleum-impacted soil was identified in the vicinity of a broken fill pipe at the end of the tank. The Army remediated this soil during the August 25, 1992, removal of the tank by excavating approximately 20 cubic yards of petroleum-impacted soil. The petroleum-impacted soil was removed from the Property for off-site thermal treatment. Organic vapor field screening and confirmatory laboratory analysis of soil samples collected from the excavation confirmed that petroleum-impacted soil was removed to below regulatory action levels. The site was back-filled with clean soil and a closure report submitted to the MPCA for concurrence. The MPCA subsequently granted the facility a Complete Site Closure status on January 20, 1993.

6.2 Inventory of Chemicals/Hazardous Substances

Records pertaining to chemicals and 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.

A hazardous materials storage shed was observed in the MEP area, just west of the OMS building. The shed was locked and inaccessible during the site reconnaissance. According to the Minnesota State Environmental Manager for the 88th RRC, the hazardous materials storage shed contains small quantities (two gallons or less) of automatic transmission fluid, brake fluid, lube oil, and anti-freeze. The OMS building also contained two flammable storage cabinets that contained small quantities (one gallon or less) of paints, personal tick repellant, charcoal lighting fluid, automatic transmission fluid, lube oil, deicer, grease, and diesel fuel supplement. A storage room located in the OMS building was locked and not accessible at the time of the site reconnaissance. The Minnesota State Environmental Manager for the 88th RRC indicated that the storage room was empty.

Current tenants use a licensed commercial company for application of lawn herbicides on the Property. In addition, other than the assumed routine household use of pesticides and herbicides, no evidence of pesticide/herbicide use (empty containers, dead or stressed vegetation) was observed during the site reconnaissance. The facility maintains a U.S. Army approved self help list of pesticides that may be applied on the Property.

None of the volumes of hazardous substances observed during the site reconnaissance were stored for one year or more in excess of reportable quantities.

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, or through the sewer system (refer to Section 2.5 and Section 3.3.1). 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.

6.5 ACM

Based on the 2002 *Environmental Survey Report – Asbestos, PCB, Lead Based Paint, and Radon Survey* for the facility, confirmed asbestos was found to be present in the administrative building (ITI, 2002). The confirmed asbestos, which was found to be in good condition, consisted of TSI elbows, roof flashing, ceiling tiles, and duct work insulation. In addition to the 2002 survey, this survey included a review of previous asbestos surveys performed in 1991, 1992, and 1995. Approximately 28 TSI elbows (friable) are present in the mechanical room in the northwestern corner of the administrative building. Also present in the mechanical room is approximately 250 square feet of friable duct work TSI known to contain asbestos. An inspection during the 2002 survey and 2006 site reconnaissance, revealed this material to be in good condition. The asbestos containing roofing flashing is non-friable and was noted to be in good condition during the 2002 survey. Approximately 2,840 square feet of ceiling tiles (Two-foot by two-foot) located in the hallway, commanders office, orderly room, training room, communication room, arms room, and classroom was found to contain asbestos. This friable material was noted to be in good condition during the 2002 survey and 2006 site reconnaissance.

Presumed asbestos containing materials present in the administrative building include 12”X 12” vinyl floor tiles (3,190 square feet), fire doors, electrical wiring, vibration damper in furnace room, and curtain (classroom). Presumed asbestos containing materials present in the OMS building include roofing materials, fire doors, and electrical wiring.

6.6 PCB-containing Equipment

One pad-mounted transformer is located along the western edge of Property, approximately 75 feet west of the exterior west wall of the administration building (see Photograph 7 in Appendix B). A label on the transformer indicated that the unit is owned by East Central Energy. No labels indicating the presence or absence of PCBs was present on the transformer during the August 2006 site reconnaissance, and the unit appeared to be in

good condition and no evidence of leakage was observed. An Environmental Survey Report, dated May 2002, identified one pad-mounted transformer on the Property with a "No PCB's" label (ITI, 2002).

One pole-mounted electrical transformer was located within the right-of-way of Fifth Avenue Northwest and near the southwestern corner of the Property (see Photograph 8 in Appendix B). No labels indicating the presence or absence of PCBs were visible on the transformer during the August 2006 site reconnaissance, and the unit appeared to be in good condition and no evidence of leakage was observed.

During the August 2006 site reconnaissance, older-style fluorescent light fixtures were observed in the administration and OMS buildings. Older fixtures, especially those that are original to the Site, could potentially contain PCBs. The *Environmental Survey Report – Asbestos, PCB, Lead Based Paint, and Radon Survey* states that all light ballasts inspected in 2002 contained labels stating "No PCB's" (ITI, 2002). The ballasts currently present at the Property appear to be in good condition and no leaking dielectric fluid was observed during the site inspection. As such, they are in compliance with Federal and State regulations and have not negatively impacted environmental conditions at the Property. However, if any ballasts that are not marked "No PCBs" are encountered and begin to leak or are removed from service, then they should be assumed to fall under the USEPA definition of PCB equipment and must be managed in accordance with applicable local, State, and Federal regulations.

6.7 LBP

A LBP survey was completed in 2002 as part of the *Environmental Survey Report – Asbestos, PCB, Lead-Based Paint, and Radon Survey* (ITI, 2002). The survey concluded that both the administrative and OMS buildings on the Property contain LBP. Materials located in the administrative building that contain LBP include beige door jambs on metal substrate (exterior), beige door jambs on metal substrate (Room 8), and ceramic tile wall (rest rooms). At the time of the site reconnaissance, the painted surfaces in the administrative building were observed to be in good condition. Materials located in the OMS building that contain LBP include all gray metal doors and associated components. These materials were noted to be in good condition during the 2002 survey.

At the time of the site reconnaissance, paint on the metal ceiling of the OMS was observed as severely flaking (Photograph 11 in Appendix B). A sample of the flaking paint collected on April 25, 2006 by Pace Analytical Services for laboratory analysis of metals using the Toxicity Characteristic Leachate Procedure (TCLP) indicated the paint to also be a LBP. Lead was detected at a concentration of 240 milligrams per liter (mg/L) (Pace Analytical Services, 2006). The flaking LBP is being collected and placed in a two-gallon plastic container labeled "Environmentally Hazardous Substances, Solid N.O.S. (Lead) – 9, UN3077, Pg III" for proper disposal as a hazardous waste. According to site personnel, abatement activities have been recommended for the OMS building.

Because all of the building structures on the Property were constructed before 1978, they are presumed to contain LBP.

6.8 Radon

A site-specific radon survey was conducted at the Cambridge Memorial USAR Center as part of the *2002 Environmental Survey Report – Asbestos, PCB, Lead Based Paint, and Radon Survey* (ITI, 2002). Passive detection equipment was installed throughout the administration building and OMS building to determine levels of radon gas. Based on the sampling results, all locations had radon levels below USEPA's residential action level of 4 picoCuries per liter (pCi/L).

Appendix D provides a copy of the *Environmental Survey Report – Asbestos, PCB, Lead Based Paint, and Radon Survey*. In addition, the USEPA Map of Radon Zones for Isanti County, Minnesota confirms that the county lies within the moderate priority zone, Zone 2, which has a predicted average indoor screening level between 2 pCi/L and USEPA's residential action level of 4 pCi/L.

The EDR report provides radon test results for the 55008 zip code area. The results concluded that the basements in the area had an average radon activity level of 3.300 pCi/L.

6.9 Munitions and Explosives of Concern (MEC)

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

There are no firing ranges on the Property, and there is no evidence that a firing range occurred on the Property historically.

6.10 Radioactive Materials

Based on a review of available records, the site reconnaissance, and interviews with USAR Center personnel, testing and calibration equipment containing radioactive materials were occasionally stored on the Property. A radiological survey for the property was not available for review. There is no evidence of a release of radiological materials at this Property.

7 Review of Special Resources

7.1 Land Use

The City of Cambridge Planning and Zoning Department has designated this Property and surrounding properties as R-1 and R-1A – One Family Residence. The site is located primarily in a residential area.

7.2 Coastal Zone Management

The Minnesota Department of Natural Resources (MDNR) is the lead agency for Minnesota's Lake Superior Coastal Program. This Property is not included in the coastal zone management plan, nor is it in a coastal zone.

7.3 Wetlands

According to the U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory map, no jurisdictional wetland areas are identified on the Property or on adjacent properties. The nearest wetland is located less than 0.125-mile north of the Property and is associated with the Rum River basin (EDR, 2006; Appendix E).

According to information acquired from the STATSGO for Isanti County, specific types of soil at the Property are from the Zimmerman Series. The Zimmerman Series is listed as well-drained fine sands (Class A) with high infiltration rates. The soils beneath the Property do not meet the requirements of a hydric soil (i.e., wetland indicator soils).

Additionally, a Natural Resources Survey conducted on the Property did not identify any wetlands (U.S. Army, 2005c).

7.4 100-year Flood Plain

A review of the FEMA digital Flood Hazard Area map, Community Panel 27059C0180D, indicates that the Property lies outside the 100-year floodplain (EDR 2006, Appendix E).

7.5 Natural Resources

A report entitled *United States Army Reserve 88th Regional Readiness Command Natural Resources Survey – Minnesota* was prepared for the 88th RRC in an effort to inventory and manage natural resources found at 88th RRC facilities in Minnesota. The report findings indicate that the Cambridge Memorial USAR Center does not contain any key natural resources, including wetlands, possible threatened and endangered species, and/or the presence of threatened and endangered species habitat (U.S. Army, 2005c).

7.6 Cultural Resources

A Section 110 cultural resources survey report for the Property was prepared for the 88th RRC by the Fort McCoy Archaeological Laboratory in 2000. The purpose of the survey and subsequent report was to inventory all properties controlled or leased by the 88th RRC in the State of Minnesota. Historical information, setting and landscape, cultural resources, security, architectural information, and structure descriptions are included for each property. Each site was also assessed for its eligibility to the NRHP. Overall, neither of the buildings at the Property was found to meet the criteria for inclusion in the NRHP. Appendix D provides a copy of the Section 110 survey report.

7.7 Other Special Resources

Six designated Wild and Scenic Rivers (WSRs) occur within the state of Minnesota. The closest WSR is the Rum River located approximately 0.33-mile northwest and 0.5-mile west from the Property. Based on the location of the WSRs and historical activities conducted at the USAR Center, no activities conducted at the site would adversely impact any of the designated WSRs.

8 Conclusions

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

8.1 Review of Findings

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

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

USTs/ASTs. Two USTs associated with this facility were removed from the Property on August 25, 1992. The former 2,000-gallon tank and 1,000-gallon tank were used to store fuel oil used to heat the administrative and OMS buildings, respectively (U.S. Army, 1992).

During the removal of the 2,000-gallon UST, petroleum-impacted soil was identified in the vicinity of a broken fill pipe at the end of the tank. The Army remediated affected soil concurrent with the 1992 removal of the tank by excavating approximately 20 cubic yards of petroleum-impacted soil. The petroleum-impacted soil was removed from the Property for off-site thermal treatment. The analysis of soil samples collected from the excavation confirmed that petroleum-impacted soil was removed to below regulatory action levels. The site was back-filled with clean soil and a closure report submitted to the MPCA for concurrence (U.S. Army, 1992). The MPCA subsequently granted the facility with a Complete Site Closure status on January 20, 1993 (EDR, 2006).

Non-UST/AST Petroleum Storage. POL products stored on the property include motor oil, lube oils, grease, and gasoline. All products were stored in individual containers, less than 5-gallons each.

Other potential petroleum-related environmental conditions include a suspected vehicle washing area and the MEP. However, only de minimis quantities would be suspected to have the potential to be released in these areas.

PCBs. One pad-mounted transformer unit is located along the western edge of the Property. A label on the transformer indicated that the unit is owned by East Central Energy. One pole-mounted electrical transformer was located within the right-of-way of Fifth Avenue Northwest and near the southwestern corner of the Property. No labels indicating the presence or absence of PCBs were visible on the transformers; therefore, these transformers may potentially contain PCBs. During the August 2006 site reconnaissance, the transformer units appeared to be in good condition and no evidence of leakage was observed.

An Environmental Survey Report, dated May 2002, identified one pad-mounted transformer on the Property with a "No PCB's" label. In addition, the survey indicated that none of the inspected light ballasts contain PCBs (ITI, 2002).

ACM. A 2002 survey evaluation of ACM at this facility found that confirmed asbestos (both friable and non-friable) was found to be present in the administrative building. The asbestos, which was found to be in good condition, consisted of TSI elbows, roof flashing, ceiling tiles, and duct work insulation. Presumed asbestos containing materials present in the administrative building include 12" X 12" vinyl floor tiles, fire doors, electrical wiring, vibration damper in furnace room, and curtains. Presumed asbestos containing materials present in the OMS building include roofing materials, fire doors, and electrical wiring (ITI, 2002).

An asbestos abatement has not been performed and some ACM in the administration building is identified with ACM warning stickers.

LBP. The 2002 LBP survey (ITI, 2002) indicated that both the administrative and OMS buildings on the Property contain LBP. According to the survey, materials located in the administrative and OMS buildings that contain LBP include door jambs on metal substrate and the ceramic tile wall in the rest rooms of the administrative building.

At the time of the site reconnaissance, paint on the metal ceiling of the OMS was observed as severely flaking. Recent sampling of the flaking paint indicated the paint to also be a LBP. The flaking LBP is being collected and containerized for disposal as a hazardous waste. According to site personnel, abatement activities have been recommended for the OMS building.

Radiological Materials. Based on available records review, interviews and a site reconnaissance, radioactive materials are present in equipment sometimes stored on the Property, including testing and calibration equipment. There is no evidence of a release of radiological materials at this Property.

Radon. The 2002 radon survey (ITI, 2002) results indicated that no sampling locations exhibited radon levels above the USEPA's residential action level of 4 pCi/L.

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

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

Wetlands and Flood Plain. According to the 1988 USFWS National Wetlands maps, a 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 flood plain or within a coastal zone.

Threatened and Endangered Species. Based on a 2005 Natural Resources Survey, the Cambridge Memorial USAR Center did not contain any key natural resources, including possible threatened and endangered species and/or the presence of threatened and endangered species habitat.

Archaeological and Historical Resources. A Section 110 cultural resources survey report for the Property was prepared in 2000. Neither of the buildings at the Property were found to meet the criteria for inclusion in the NRHP (Fort McCoy Archaeological Laboratory, 2001).

8.2 Environmental Condition of Property

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

In accordance with the Deputy Under Secretary of Defense Memorandum, *Clarification of "Uncontaminated" Environmental Condition of Property at Base Realignment and Closure (BRAC) Installations*, dated October 21, 1996, the Property has been classified into one of seven property types. Based on the results of this ECP study, the property has been assigned an overall DoD Environmental Condition Type 2.

The property type is based on the following major finding:

- Petroleum-impacted soil was identified during removal of the 2,000-gallon fuel oil UST in 1992. Soil containing petroleum concentrations above state cleanup criteria was removed and the site subsequently received a Complete Site Closure determination from the MPCA.

9 References

Persons Contacted

- Mr. Steve Bragg, 88th RRC, Minnesota State Environmental Manager, (612) 290-0940, August 2, 2006
- Sergeant Ramona Abdullah, Cambridge USAR Center, Training NCO, (763) 689-1344, August 2, 2006
- Ms. Betsy Potrament, City of Cambridge, Water Utility Department, Minnesota, Administrator, (763) 689-1800, August 21, 2006
- Mr. Todd Blank, City of Cambridge, Public Works Department, Minnesota, City Engineer, (651) 490-2017, August 23, 2006
- Ms. Vallerie Vultaggio, Cambridge USAR Center, Environmental Compliance Officer and HAZMAT Coordinator, (763) 689-1344, August 22, 2006
- Ms. Mary Monte, National Resource Conservation Service (NRCS), Cambridge Service Center, (763) 689-3353, August 21, 2006

Resources Consulted

- Aerial Photographs provided by EDR dated 1938, 1957, 1965, 1973, and 1991.
- Minnesota's Wild and Scenic Rivers, http://www.dnr.state.mn.us/waters/watermgmt_section/wild_scenic/wsrivers/rivers.html
- USEPA Map of Radon Zones, http://www.epa.gov/radon/zonemap.html
- Minnesota's Lake Superior Coastal Program, http://www.dnr.state.mn.us/waters/lakesuperior/index.html
- FEMA Flood Hazard Insurance Map,, http://msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView
- Federal Regulatory Databases (See EDR Report for a complete list)
  - National Priorities List (NPL), April 19, 2006
  - Proposed NPL Sites, April 19, 2006
  - Delisted NPL Sites, April 19, 2006
  - NPL Recovery Sites, October 15, 1991
  - CERCLIS, February 1, 2006
  - CERCLIS-NFRAP, February 1, 2006
  - CORRACTS, March 15, 2006
  - RCRA, March 9, 2006
  - ERNS, December 31, 2005

- HMIRS, December 31, 2005
- U.S. Engineering Controls Sites List, March 21, 2006
- U.S. Institutional Controls, March 21, 2006
- DoD, December 31, 2004
- FUDS, December 5, 2005
- U.S. Brownsfields, April 26, 2006
- CONSENT (Superfund Consent Decrees), December 14, 2004
- Records of Decision (ROD), April 13, 2006
- Uranium Mill tailings Sites, November 4, 2005
- Open Dump Inventory, June 30, 1985
- Toxic Chemical Release Inventory System (TRIS), December 31, 2003
- Toxic Substances Control Act (TSCA), December 31, 2002
- Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)/ TSCA, March 29, 2006
- FIFRA/TSCA Tracking System, March 31, 2006
- Section 7 Tracking Systems, December 31, 2004
- Integrated Compliance Information system, February 13, 2006
- PCB Activity Database System, December 27, 2005
- Material Licensing Tracking system, April 12, 2006
- Mines Master Index File, February 9, 2006
- Facility Index System/Facility Registry system (FINDS), April 27, 2006

- State and Local Regulatory Databases (See EDR Report for complete list)
  - LUST, March 1, 2006
  - UST, March 1, 2006
  - Permitted Solid Waste Disposal Facilities, March 1, 2006
  - Minnesota Brownfields Inventory, September 1, 2005
  - VIC, April 4, 2006
  - Registered Drycleaning Facilities, May 23, 2006
  - Spills Database, March 1, 2006

Agencies Contacted

- City of Cambridge, Zoning Department, Minnesota
- City of Cambridge, Water Utility Department, Minnesota
- City of Cambridge, Public Works Department, Minnesota
- National Resource Conservation Service (NRCS), Cambridge Service Center, Minnesota

Works Cited

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Ericson, D.W., G.F. Lindholm, and J.O. Helgesen, 1974. "Water Resources of the Rum River Watershed, East-Central Minnesota." Minnesota Department of Natural Resources Hydrologic Investigations Atlas HA-509.

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Meyer, G.N., C.J. Patterson, H.C. Hobbs, and J.D. Lehr, 1993. "Surficial Geology" in "Anoka Sand Plain Regional Hydrogeologic Assessment." Minnesota DNR Regional Assessment Series, RHA-1, Plate 1.

Meyer, Gary N., 1993. "Geologic Sensitivity of the Uppermost Aquifer to Pollution" in "Anoka Sand Plain Regional Hydrogeologic Assessment." Minnesota DNR Regional Assessment Series, RHA-1, Plate 3.

National Resource Conservation Service (NRCS), 1959. Soil survey of Isanti County, Minnesota.

Pace Analytical Services, 2006. Analytical Report Number: 871309, Paint Sample Collected from OMS on April 25, 2006. May 8.

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U.S. Army, 2005a. Transmittal Letter for No Exposure Certification Form Issued to the MPCA for the Cambridge Memorial USAR Center. January 28.

U.S. Army, 2005b. Environmental Facility Assessment Report for Installation Number: MN006, Cambridge Memorial USAR Center, 540 5th Avenue NW, Cambridge, MN 55008-1037. Northwest Facility Engineer Center of Fort McCoy. March.

U.S. Army, 2005c. U.S. Army Reserve 88th Regional Readiness Command Natural Resources Surveys – Minnesota, Final. September.

U.S. Army Corps of Engineers, 2001. Cross Connection/Backflow Prevention Program for The 88th Regional Support Command Facilities in Minnesota. Louisville District. May 31.

Appendix A
Figures

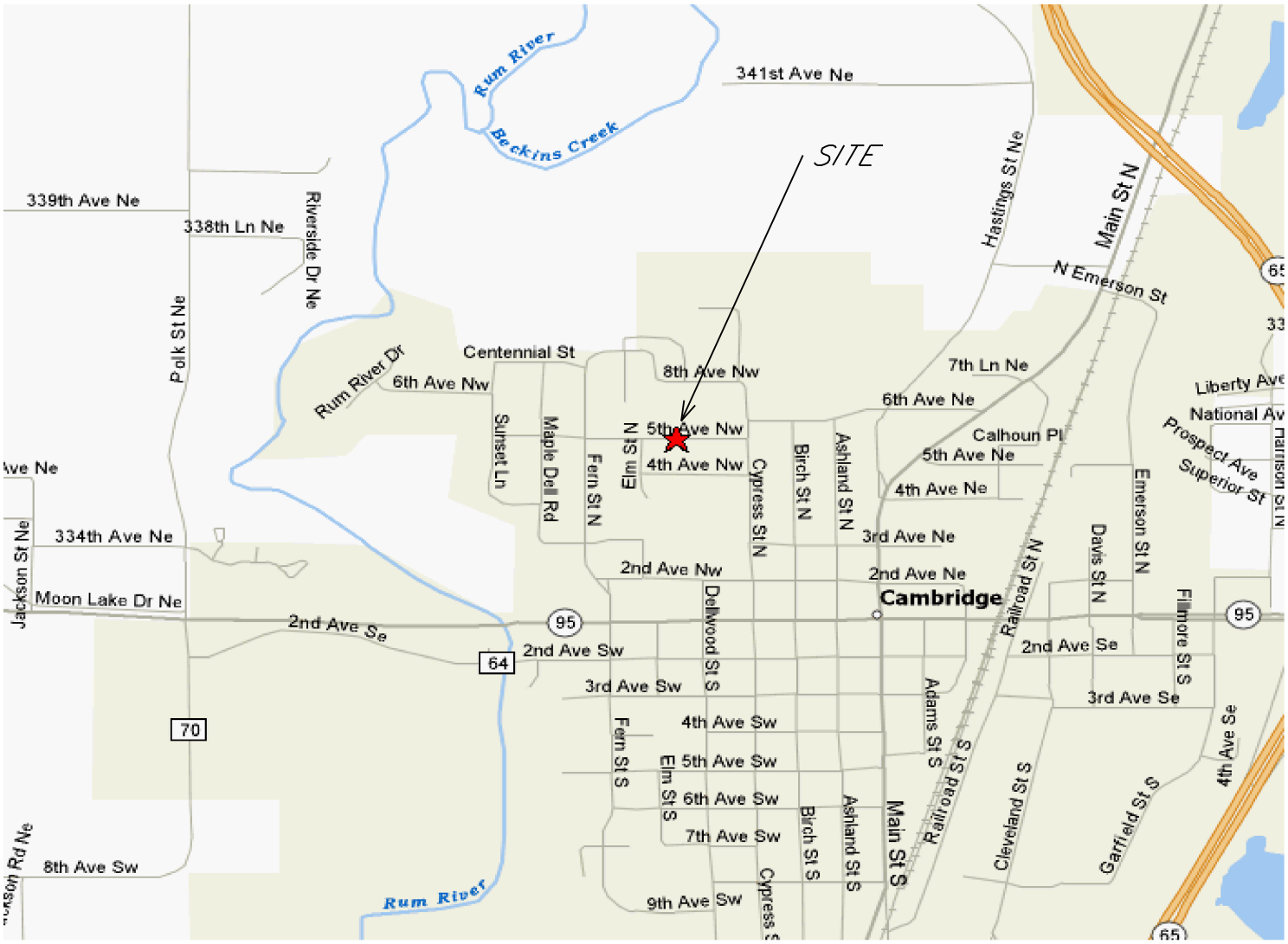


FIGURE 1
GENERAL SITE LOCATION MAP
CAMBRIDGE USARC CENTER ECP REPORT
CAMBRIDGE, MINNESOTA

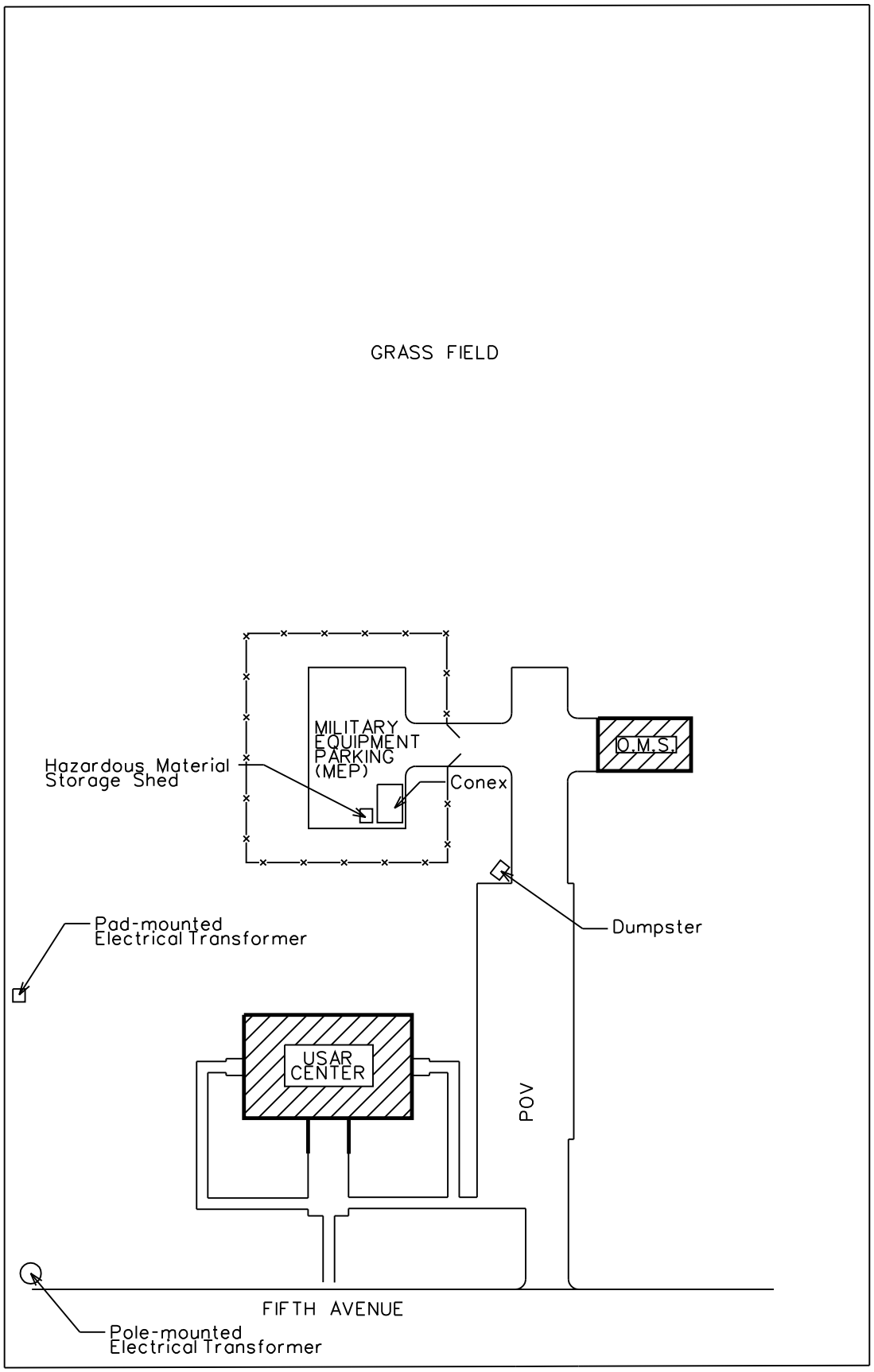
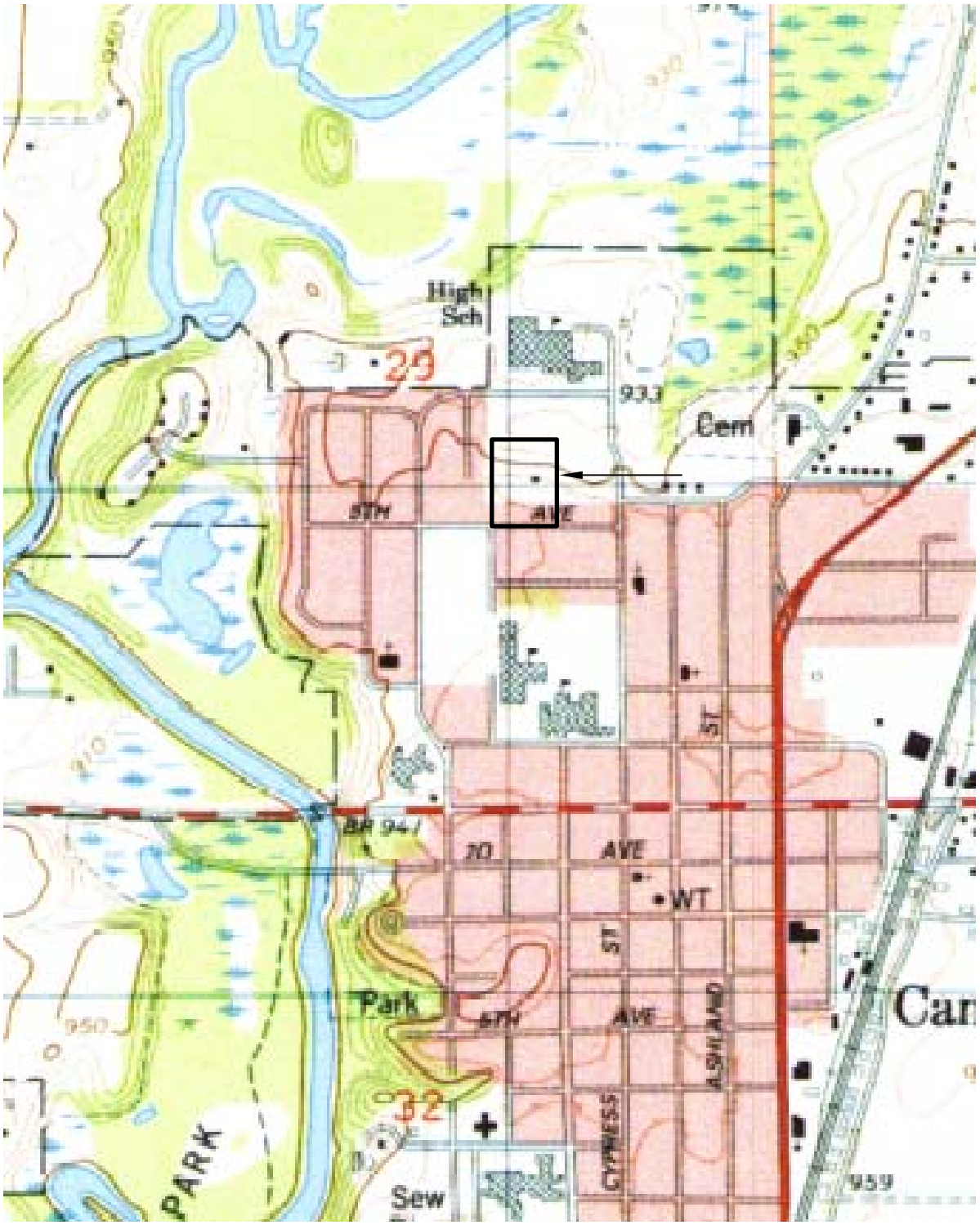


FIGURE 2
SITE LAYOUT PLAN
CAMBRIDGE USARC CENTER ECP REPORT
CAMBRIDGE, MINNESOTA

↑N



= 950'

Source: EDR

FIGURE 3
1983 USGS 7.5 Minute, Topographic Map, Cambridge, Minnesota
Cambridge USAR Center ECP Report
Cambridge, Minnesota

PLEXUS scientific

CH2MHILL

FIGURE 4
1938 Aerial Photograph
Cambridge USAR Center ECP Report
Cambridge, Minnesota

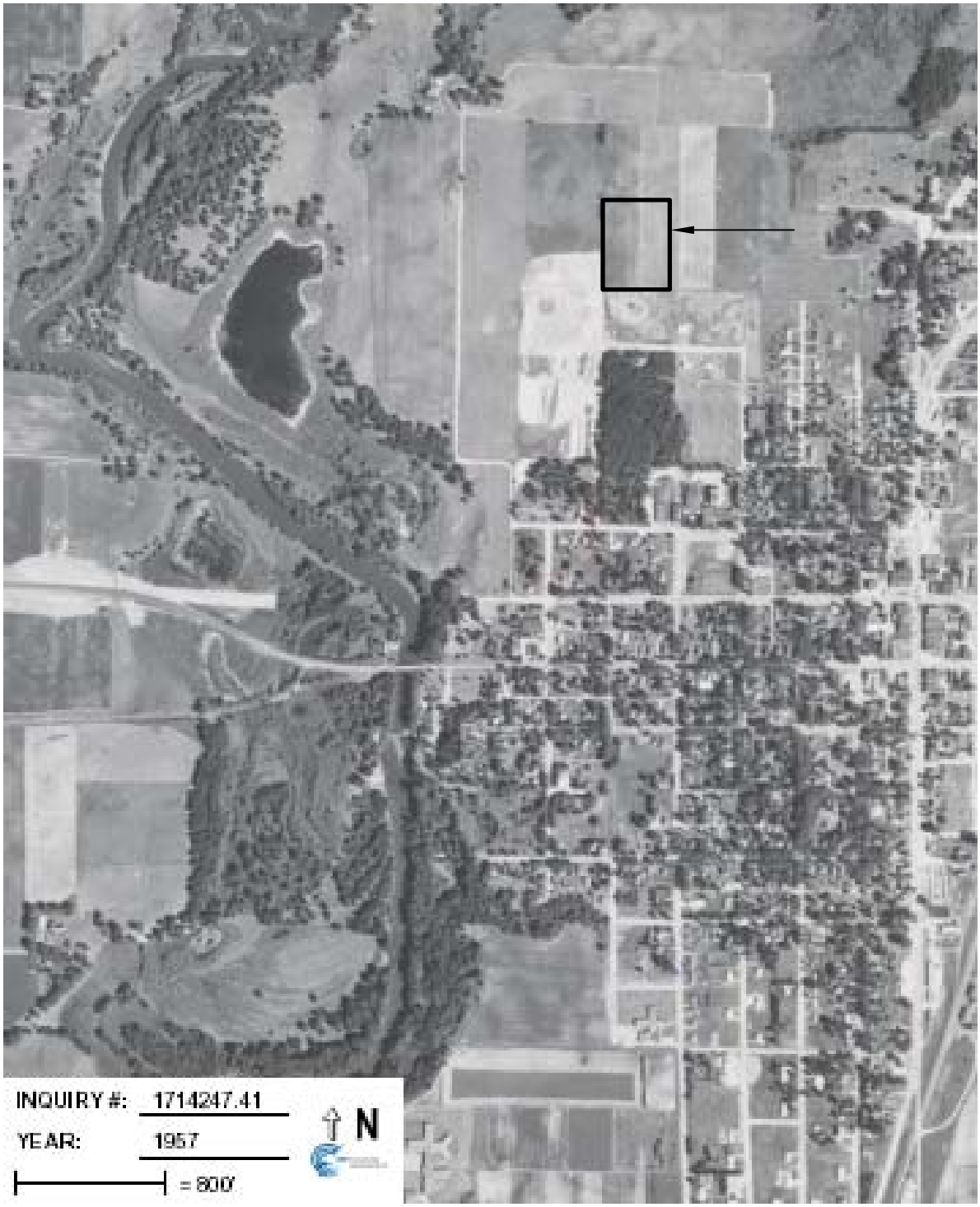
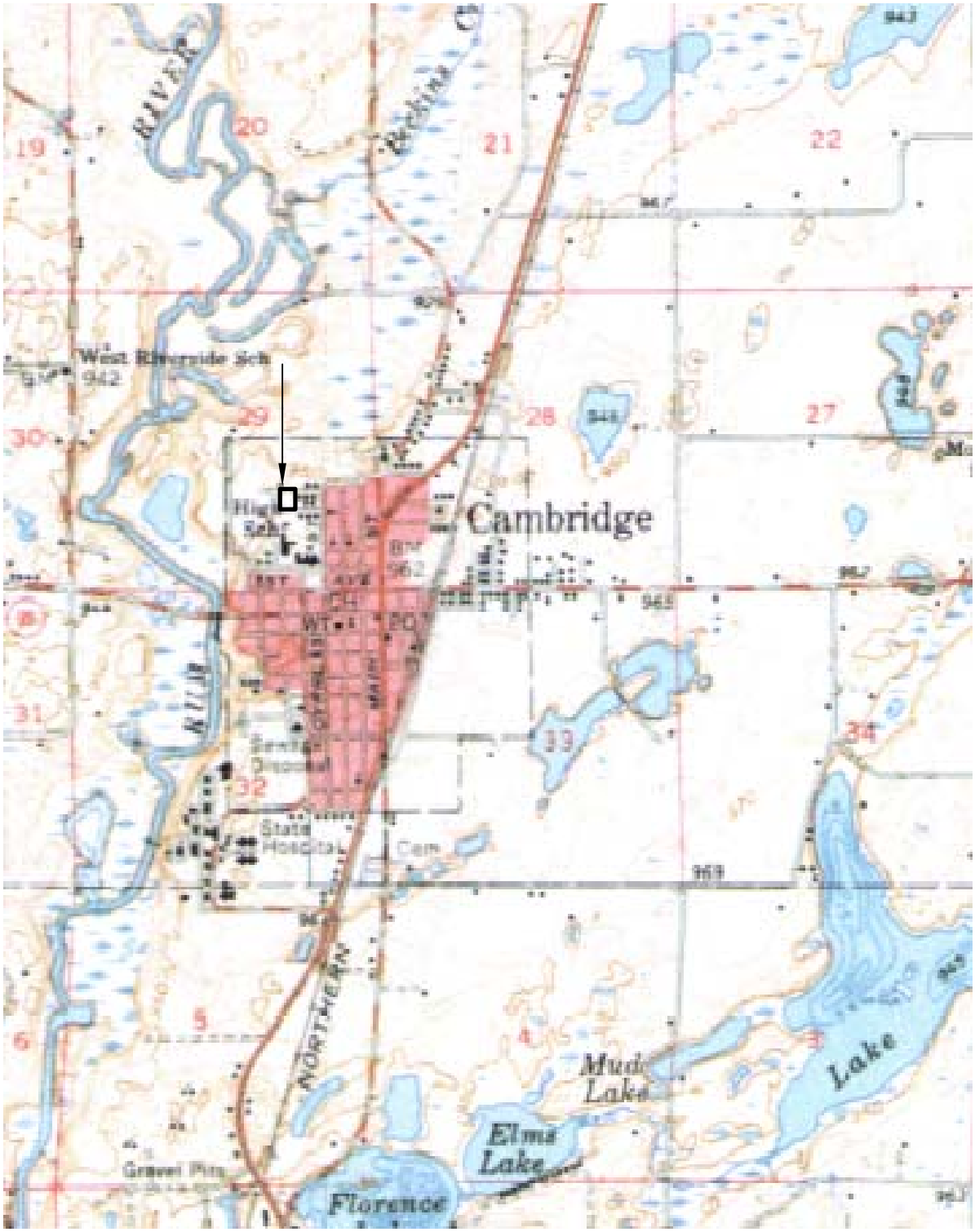


FIGURE 5
1957 Aerial Photograph
Cambridge USAR Center ECP Report
Cambridge, Minnesota

N



= 2100'

Source: EDR

FIGURE 6
1961 USGS 7.5 Minute, Topographic Map, Cambridge, Minnesota
Cambridge USAR Center ECP Report
Cambridge, Minnesota

PLEXUS scientific

CH2MHILL

FIGURE 7
1965 Aerial Photograph
Cambridge USAR Center ECP Report
Cambridge, Minnesota

FIGURE 8
1973 Aerial Photograph
Cambridge USAR Center ECP Report
Cambridge, Minnesota

FIGURE 9
1991 Aerial Photograph
Cambridge USAR Center ECP Report
Cambridge, Minnesota

Appendix B
Site Reconnaissance Photographs

APPENDIX B

Site Reconnaissance Photographs

1. View to the north of the administration building.

2. View to the north of POV area and OMS building.

3. View to the east of the MEP area and OMS.

4. View to the south of northern portion of Property (photograph taken from adjacent property to north).

5. View to west of former UST location near northwest corner of administration building.

6. View to north of former UST location near northeast corner of OMS building.

7. Pad-mounted electrical transformer located along western edge of property and east of administration building.

8. Pole-mounted electrical transformer located within city right-of-way along Fifth Avenue Northwest.

9. TSI elbow containing ACM in mechanical room located in northwest corner of administration building.

10. TSI insulation on air handling equipment containing ACM in mechanical room located in northwest corner of administration building.

11. View to west of pealing lead-based paint inside OMS building.

12. Flammable materials storage cabinet in OMS building.

13. View to west of main hallway of administration building.

14. Classroom at east end of administration building.

15. Small kitchen area in administration building.

16. Office in administration building.

17. Storage and fallen lead-based paint on ground inside OMS building.

18. View to the south of the suspected vehicle wash area (foreground) and POV area (background).

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

CAMBRIDGE MEMORIAL USARC, MN
540 FIFTH AVE NW
CAMBRIDGE, MINNESOTA

Submitted to:

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

Attention: Mary Jacques

Project No. N06-5539

Thursday, September 14, 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 part of Lot 45 of Auditor's Subdivision No. 8 in the City of Cambridge, Isanti County, State of Minnesota

Assessor's Parcel No: 150411350

1. HISTORICAL CHAIN OF TITLE

Chain One:

1. WARRANTY DEED:
   - RECORDED: 10-30-1926
   - GRANTOR: Sidney Bunker
   - GRANTEE: Herbert Bunker
   - INSTRUMENT: 47497

2. DEED
   - RECORDED: 05-11-1937
   - GRANTOR: Herbert Bunker
   - GRANTEE: Ella Strait
   - INSTRUMENT: 29-19

3. QUIT CLAIM DEED:
   - RECORDED: 04-25-1947
   - GRANTOR: Ella Strait
   - GRANTEE: Herbert Bunker & Alma Bunker, his wife
   - INSTRUMENT: 74587

4. QUIT CLAIM DEED:
   - RECORDED: 04-25-1947
   - GRANTOR: Herbert Bunker & Alma Bunker, his wife
   - GRANTEE: Ella Strait
   - INSTRUMENT: 74588

5. DECREE:
   - RECORDED: 05-24-1958
   - GRANTOR: Ella Strait
   - GRANTEE: Oliver F. Ledin & Marjorie C. Ledin, husband & wife; M. Clinton Strait, a widower; Theodore Flodquist & Linnea E. Flodquist, husband & wife; John D. Strait & Jessie Strait, husband & wife; and Linnea E. Flodquist, as Guardian of the Estate of Carl George Lindenborg and Jon Mark Lindenborg, minors
   - INSTRUMENT: 90990

6. WARRANTY DEED:
   RECORDED: 04-01-1959
   GRANTOR: Oliver F. Ledin & Marjorie C. Ledin, husband & wife; M. Clinton Strait, a widower; Theodore Flodquist & Linnea E. Flodquist, husband & wife; John D. Strait & Jessie Strait, husband & wife; and Linnea E. Flodquist, as Guardian of the Estate of Carl George Lindenborg and Jon Mark Lindenborg, minors
   GRANTEE: United States of America
   INSTRUMENT: 92456

Chain Two:

7. WARRANTY DEED:
   RECORDED: 10-30-1926
   GRANTOR: Sidney Bunker
   GRANTEE: Herbert Bunker
   INSTRUMENT: 47497

8. WARRANTY DEED: :
   RECORDED: 11-10-1944
   GRANTOR: Herbert Bunker, et al
   GRANTEE: Kendall Bunker & Marcellae Bunker, his wife
   INSTRUMENT: 25-341
9. WARRANTY DEED:
   RECORDED: 03-27-1948
   GRANTOR: Marcellae Bunker, a widow
   GRANTEE: Herbert F. Bunker, et al
   INSTRUMENT: 39-145

10. WARRANTY DEED:
   RECORDED: 04-28-1955
   GRANTOR: Herbert F. Bunker, et al
   GRANTEE: Anders S. Anderson
   INSTRUMENT: 46-102

11. WARRANTY DEED:
   RECORDED: 07-16-1973
   GRANTOR: Anders S. Anderson
   GRANTEE: Douglas R. Carlson
   INSTRUMENT: 82-707

12. WARRANTY DEED:
    RECORDED: 01-15-1979
    GRANTOR: Anders S. Anderson
    GRANTEE: Douglas R. Carlson
    INSTRUMENT: 105-69

13. WARRANTY DEED:
    RECORDED: 09-23-1980
    GRANTOR: Douglas R. Carlson
    GRANTEE: Dwaine H. Nelson
    INSTRUMENT: 110732

14. QUIT CLAIM DEED:
    RECORDED: 11-18-1980
    GRANTOR: Anders S. Anderson
    GRANTEE: Dwaine H. Nelson
    INSTRUMENT: 111389

15. WARRANTY DEED:
    RECORDED: 11-18-1980
    GRANTOR: Dwaine H. Nelson
    GRANTEE: Mark J. Kislenger & Janis E. Kislenger, husband & wife
    INSTRUMENT: 111391

16. WARRANTY DEED:
    RECORDED: 01-20-1982
    GRANTOR: Janis E. Kislenger, a divorced and unremarried woman
    GRANTEE: United States of America
    INSTRUMENT: 153162

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

FINAL REPORT FOR UNDERGROUND STORAGE TANK REMOVALS

CAMBRIDGE, MINNESOTA USARC

25 August 1992

PREPARED FOR:

COMMANDER, 88TH ARCOM
ATTN: AFRC-AMN-EN (Mr. Bill Porter)
506 ROEDER CIRCLE
FT SNELLING, MN 55111-4009

PREPARED BY:

HQ, FT MCCOY
ATTN: AFZR-DE-E (Mr. Kurt Brownell)
SPARTA, WI 54656-5000

TABLE OF CONTENTS

CAMBRIDGE, MINNESOTA UST REMOVALS

EXCAVATION REPORT FOR PETROLEUM RELEASE SITES

Minnesota Pollution Control Agency
Tanks and Spills Section
May 1992

Complete the information below and submit to the Minnesota Pollution Control Agency (MPCA) Tanks and Spills Section to document excavation and treatment of petroleum contaminated soil. Excavations must be done in accordance with "Excavation of Petroleum Contaminated Soil" (Guidance Document 6). Please attach any available preliminary site investigation reports to this excavation report.

Additional pages may be attached. Please type or print clearly.

I. BACKGROUND

A. Site: U.S ARMY RESERVE
Street: 540 5TH AV. NW.
City, Zip: CAMBRIDGE, MN. 55008-1037
County: ISANTI

MPCA Site ID#: LEAK0000 5591

B. Tank Owner/Operator: Commander, 88th ARCOM
Mailing Address:
Street/Box: ATTN AFRC-AMN-EN 506 Roeder Circle
City, Zip: Ft Snelling, MN 55111-4009
Telephone: 612-725-5272

C. Excavating Contractor:
Contact:
Telephone:
Tank Contractor Certification Number:

D. Consultant:
Contact:
Street/Box:
City, Zip:
Telephone:

E. Others on-site during site work (e.g., fire marshal, local officials, MPCA staff, etc.): ARMY ENGINEER

Note: If person other than tank owner and/or operator is conducting the cleanup, provide name, address, and relationship to site on a separate attached sheet.

II. DATES

A. Date release reported to MPCA: 8/25/92

B. Dates site work performed:

Work Performed	Date
TANK REMOVAL	8/25/92
CONTAMINATED SOIL REMOVAL	8/25/92

III. RELEASE INFORMATION

A. Provide the following information for all removed tanks.

Tank 1: Capacity 2000 Type STEEL Age UNKNOWN

Condition: LITE PITTING

Product history: HEATING FUEL

Approximate quantity of petroleum released, if known:
UNKNOWN

Cause of release:
BROKEN FILL PIPE

Tank 2: Capacity 1000 Type STEEL Age UNKNOWN

Condition: GOOD

Product history: HEATING FUEL

Approximate quantity of petroleum released, if known:
NONE

Cause of release:
NONE

Tank 3: Capacity N/A Type _____ Age _____

Condition: _____

Product history:

Approximate quantity of petroleum released, if known:

Cause of release:

B. Provide the following information for all existing tanks.

Tank No.	Capacity	Contents	Type	Age
N/A				

C. If the release was associated with the lines or dispensers, briefly describe the problem: BROKEN FILL PIPE ON 2000 GAL TANK

D. If the release was a surface spill, briefly describe the problem:
N/A

IV. EXCAVATION

A. Dimensions of excavation: 10'x 9'x 13'

B. Original tank backfill material (sand, gravel, etc.): SAND

C. Native soil type (clay, sand, etc.): SAND

D. Quantity of contaminated soil removed (cubic yards): 20
[Note: If more than 400 cubic yards removed, please attach copy of written approval from MPCA.]

E. Was ground water encountered or was there evidence of a seasonally high ground water table? At what depth? NO

F. If a soil boring was necessary, (as indicated in part VI of "Excavation of Petroleum Contaminated Soil" (Guidance Document 6) for sand and silty sand native soils) describe the soil analytical and soil vapor headspace results. Attach the boring logs and laboratory results to this report. NO

G. If ground water was encountered or if a soil boring was conducted, was there evidence of ground water contamination? Specify, e.g., free product (specify thickness), product sheen, ground water in contact with petroleum contaminated soil, water analytical results, etc. NO

[NOTE: If free product was observed, contact MPCA staff immediately as outlined in "Petroleum Tank Release Reports" (Guidance Document 2).]

H. Was bedrock encountered in the excavation? At what depth?
NONE

I. Were other unique conditions associated with this site? If so, explain. NONE

V. SAMPLING

A. Briefly describe the field methods (including use of a photoionization detector) used to distinguish contaminated from uncontaminated soil:
GRAB SAMPLES WERE TAKEN FROM THE EXCAVATION, STORED IN GLASS JARS & COVERED WITH TIN FOIL, SHAKEN & LEFT STATIONARY FOR 15 MIN. RESHAKEN & ANALYZED WITH A THERMAL SYSTEMS 580 B.

B. List soil vapor headspace analysis results. Indicate sampling locations using sample codes (with sampling depths in parentheses), e.g. SV-1 (2 feet), SV-2 (10 feet), etc. Samples collected at different depths at the same location should be labeled SV-1A (2 feet), SV-1B (4 feet), SV-1C (6 feet), etc. These should correspond with the codes on the site map in part VI. If the sample represents soil from the final extent of the excavation indicate "bottom" or "sidewall" in the bottom/sidewall column.

Sample Code	Soil Type	Reading ppm	Bottom/ Sidewall	Sample Code	Soil Type	Reading ppm	Bottom/ Sidewall
		SEE ATTACHED					

C. Briefly describe the soil sampling and handling procedures used:

Grab samples taken with disposable gloves, and installed in sample jars, samples were installed in sealed plastic bags and installed in a cooler (all items supplied by MVTL Laboratories Inc.).

D. List the appropriate soil sample analytical results from the bottom and sidewalls of the excavation below (refer to "Soil and Ground Water Analysis at Petroleum Release Sites," Guidance Document 11). If the petroleum was not gasoline or fuel oil attach appropriate analytical results. Code the samples (with sampling depths in parentheses) SS-1 (8 feet), SS-2 (4 feet), etc. These should correspond with the codes on the site map in part VI. Do not include analyses from the stockpiled soils.

Sample Code	THC as gas or (FO) ppm (circle one)	Benzene ppm	Ethyl-benzene ppm	Toluene ppm	Xylene ppm	MTBE ppm	Lead ppm
SS-1 (12.5')	BDL	.2	.15	.2	.15		
SS-2 (9')	BDL	.2	.15	.2	.15		
SS-1A (10')	BDL	.2	.15	.2	.15		
SS-2A (10')	BDL	.2	.15	.2	.15		

NOTE: COPIES OF LABORATORY REPORTS AND CHAIN OF CUSTODY FORMS MUST BE INCLUDED.

VI. FIGURES

Attach the following figures to this report:

1. Site location map.
2. Site map(s) drawn to scale illustrating the following:

   a. Location (or former location) of all present and former tanks, lines, and dispensers;
   b. location of other structures (buildings, canopies, etc.);
   c. adjacent city, township, or county roadways;
   d. final extent of excavation; and
   e. location of soil vapor analyses (e.g. SV-1), soil samples (e.g., SS-1), and soil borings (e.g. SB-1). Also, attach all boring logs.
   f. north arrow and map legend.

VII. SUMMARY

Briefly summarize evidence indicating whether additional investigation is necessary at the site, as discussed in part VI of "Excavation of Petroleum Contaminated Soil" (Guidance Document 6). If no further action is recommended, the MPCA staff will review this report following notification of soil treatment.

SMALL AMOUNTS OF CONTAMINATION WERE FOUND AROUND THE FILL PIPE END OF THE 2,000 GAL TANK. AFTER THESE SOILS WERE REMOVED (APPROX 20 YDS) FIELD TESTING SHOWED LEVELS BELOW ACTION LEVELS. LAB ANALYSIS CONFIRMED THESE FINDINGS. B+H RECOMMENDS THAT NO ADDITIONAL INVESTIGATION IS NEEDED AT THIS TIME

VIII. SOIL TREATMENT INFORMATION

A. Soil treatment method used (thermal, land application, other). If you choose "other" specify treatment method: THERMAL

B. Location of treatment site/facility: AITKIN BLACK TOP

C. Date MPCA approved soil treatment (if thermal treatment was used after May 1, 1991, indicate date that the MPCA permitted thermal treatment facility agreed to accept soil): 9/14/92

D. Identify the location of any stockpiled contaminated soil: NONE

IX. CONSULTANT (OR OTHER) PREPARING THIS REPORT

Company Name: B+H PETROLEUM EQ
Street/Box: 218 SO VICTORY DR.
City, Zip: MANKATO, MN 56001
Telephone: 507-387-6629
Contact: GARY ECKERT

Signature: _____ Date: 9/14/92

If additional investigation is not required at the site, please mail this form and all necessary attachments to:

(Project Manager)
Minnesota Pollution Control Agency
Hazardous Waste Division
Tanks and Spills Section
520 Lafayette Road
St. Paul, Minnesota 55155

If additional investigation is required at the site, include this form as a section in the Remedial Investigation/Corrective Action Design report. Excavation reports indicating a remedial investigation (RI) is necessary will not be reviewed by MPCA staff until the RI has been completed.

N/A

SOIL SAMPLING FORM

Project U.S ARC Work Order # B-14

Location CAMBRIDGE Recorded by LL

Cleaning NEW Date 8/25/92

Describe Sampling Point HEATING TANK REMOVAL SITE

Reviewed By CE Boring N/A

Sampling Method GRAB

Organic Vapor Detector THERMAL SYSTEM 580B

Depth	Soil Type	Sample ID	Samples Collected	Organic Vapors (ppm)	Contamination Observations Location
2'	SAND	SV-1	GENERAL EXCAVATION	108	ABOVE TANK FILL PIPE BROKEN
8'	SAND	SV-1	GENERAL EXCAVATION	61	BASE OF TANK DOWNSIDE OF TANK
9'	SAND	SV-1	GENERAL EXCAVATION	161	HEAVY ODOR 2' BELOW TANK
12.5'	SAND	SV-1	BOTTOM	1.2	NO ODOR
2'	SAND	SV-2	GENERAL EXCAVATION	BDL	NO ODOR
8'	SAND	SV-2	GENERAL EXCAVATION	BDL	NATIVE SOIL
9'	SAND	SV-2	GENERAL EXCAVATION	BDL	NO ODOR
10'	SAND	SV-2	BOTTOM	BDL	NO ODOR
9'	SAND	SV-3	BOTTOM	BDL	NATIVE SOIL
9'	SAND	SV-4	BOTTOM	BDL	NO ODOR
10'	SAND	SV-5	BOTTOM	BDL	NO ODOR
10'	SAND	SV-6	BOTTOM	1.1	NO ODOR
2'	SAND	SV-1A	GENERAL EXCAVATION	BDL	ABOVE TANK TOP SOIL

Depth to Ground Water NONE Boring Abandonment Method N/A

Comments FILL PIPE BROKEN, CONTAMINATION VERY LIMITED SOUTH END OF TANK ONLY SV-1 THRU SV-6 FOR 2000 GAL

P. 2

SOIL SAMPLING FORM

Project U.S ARC Work Order # B-H

Location CAMBRIDGE Recorded by [illegible]

Cleaning _____ Date 8/25/92

Describe Sampling Point _____

Reviewed By _____ Boring _____

Sampling Method _____

Organic Vapor Detector _____

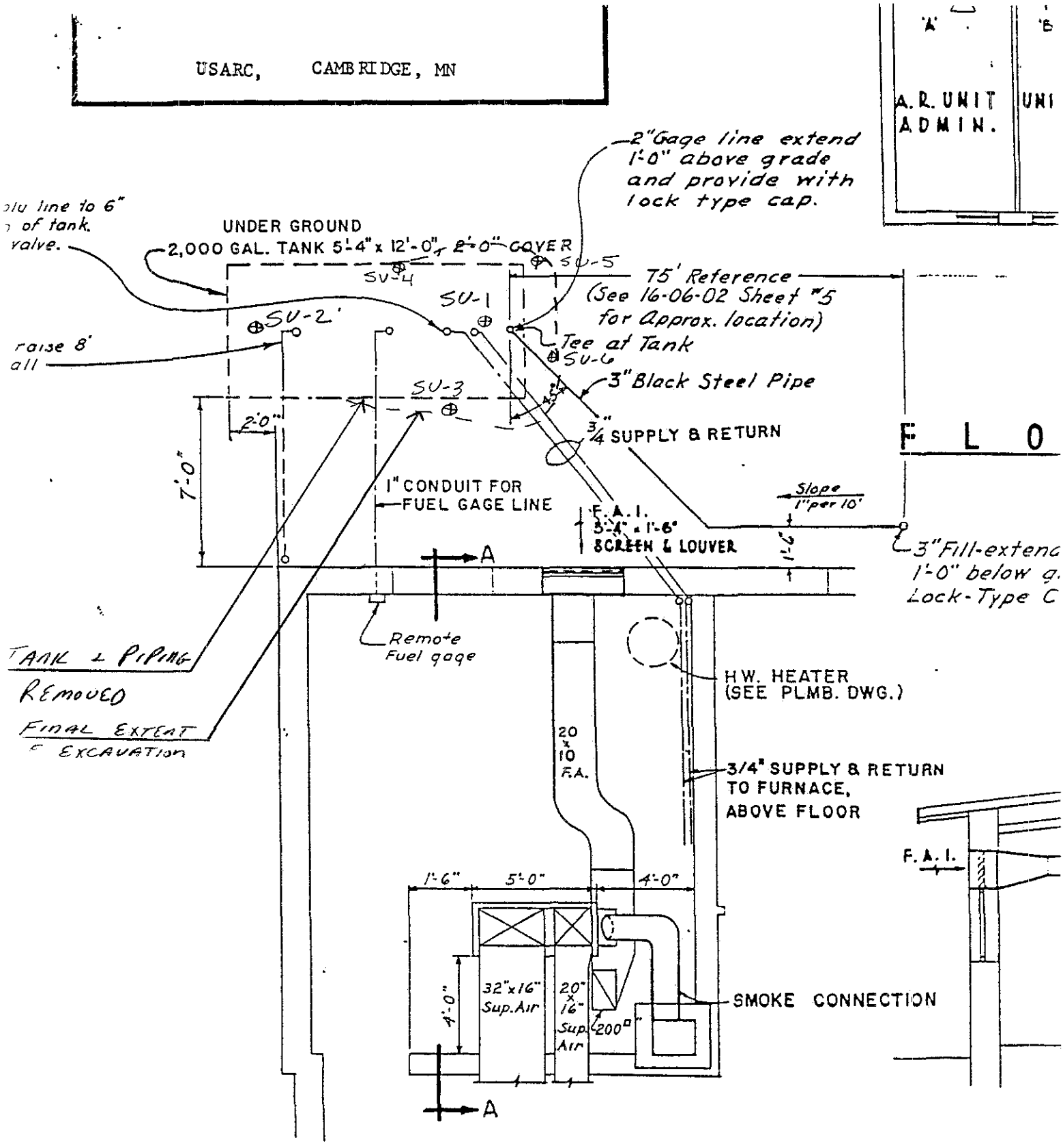
Depth	Soil Type	Sample ID	Samples Collected	Organic Vapors (ppm)	Contamination Observations Location
8'	SAND	SV-1A	GENERAL EXCAVATION	BDL	NO ODOR
10'	SAND	SV-1A	BOTTOM	BDL	2' BELOW TANK
2'	SAND	SV-2A	GENERAL EXCAVATION	BDL	ABOVE TANK
8'	SAND	SV-2A	GENERAL EXCAVATION	BDL	NO ODOR
10'	SAND	SV-2A	BOTTOM	BDL	2' BELOW TANK

Depth to Ground Water N/A Boring Abandonment Method N/A

Comments SV-1A THRY SV-2A FOR 1000 GAL TANK

1000 GAL TANK, ALL CLEAN!

USARC, CAMBRIDGE, MN



Z

HEATER ROOM

SCALE 1/4" = 1'-0"

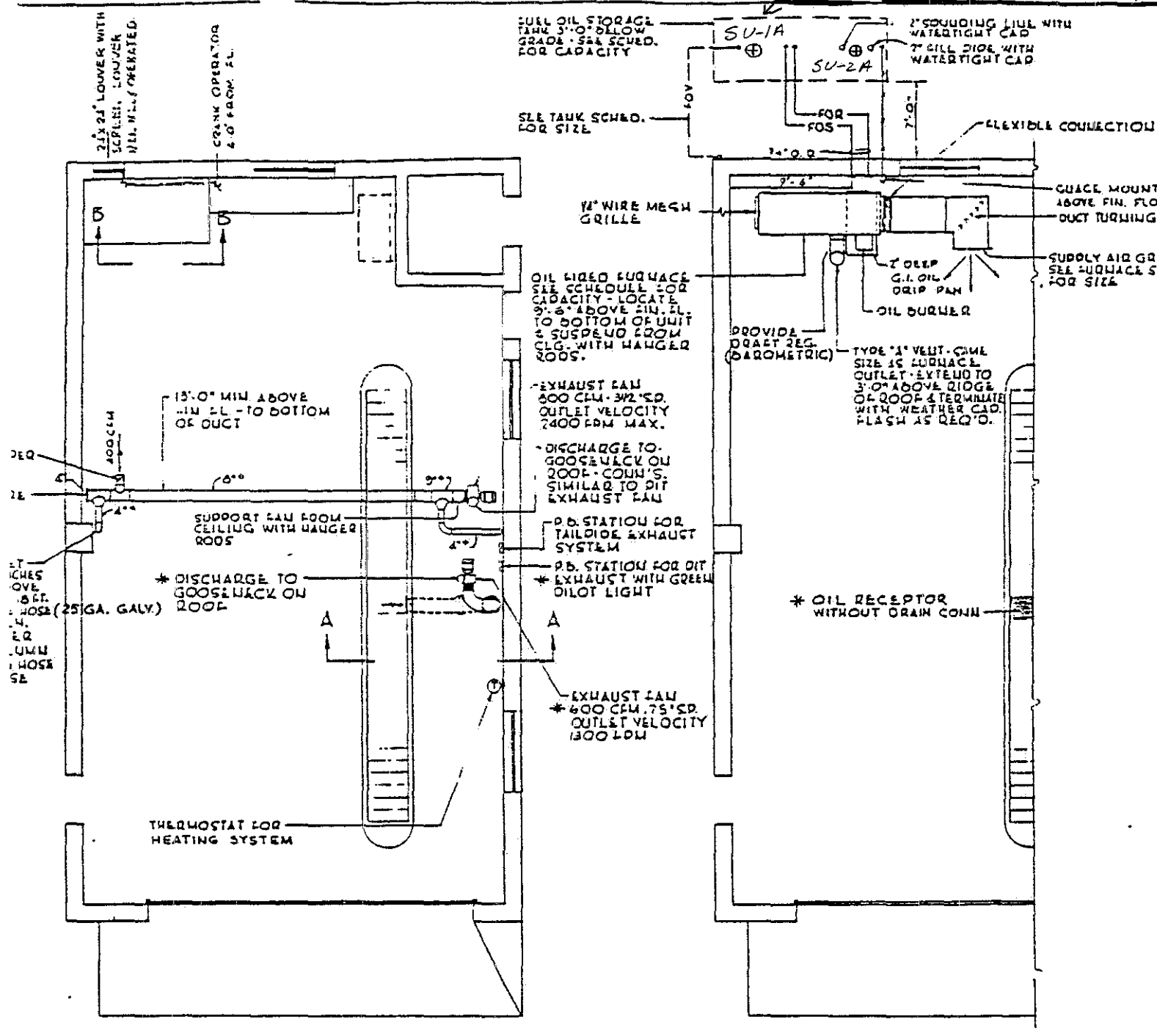
S E

ATTACHMENT 1-2

NOTE 1. LOCATION OF DUCTS, FURNACE, HEATER, ETC., TO REMAIN AS

1000 GAL HEATING
FUEL TANK & PIPING
REMOVED

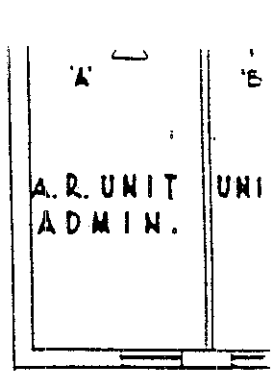
OMS SHOP
USARC, CAMBRIDGE,



FLOOR PLAN
VENTILATION SYSTEM
SCALE: 1/4" = 1'-0"

PART FLOOR PLAN
OIL FIRED HEATING SYSTEM
SCALE: 1/4" = 1'-0"

USARC, CAMBRIDGE, MN



poly line to 6" n of tank. valve.

UNDER GROUND
2,000 GAL. TANK 5'-4" x 12'-0", 2'-0" COVER

2"Gage line extend 1'-0" above grade and provide with lock type cap.

T5' Reference (See 16-06-02 Sheet #5 for Approx. location)

Tee at Tank

3"Black Steel Pipe

raise 8' wall

SS-2

SS-1

2'-0"

7'-0"

3/4" SUPPLY & RETURN

1" CONDUIT FOR FUEL GAGE LINE

F.A.I. 3'-4" x 1'-6" SCREEN & LOUVER

Slope 1" per 10'

1'-2"

3"Fill-extend 1'-0" below g Lock-Type C

A

Remote Fuel gage

TANK & PIPING REMOVED

H.W. HEATER (SEE PLMB. DWG.)

20 x 10 F.A.

3/4" SUPPLY & RETURN TO FURNACE, ABOVE FLOOR

F. A. I.

SS-1 (9')

SS-1 (12.5')

SS-2 (9')

1'-6" 5'-0" 4'-0"

4'-0"

32"x16" Sup. Air

20" x 16" Sup. Air

200□"

SMOKE CONNECTION

A

Z

HEATER ROOM

SCALE 1/4" = 1'-0"

SE

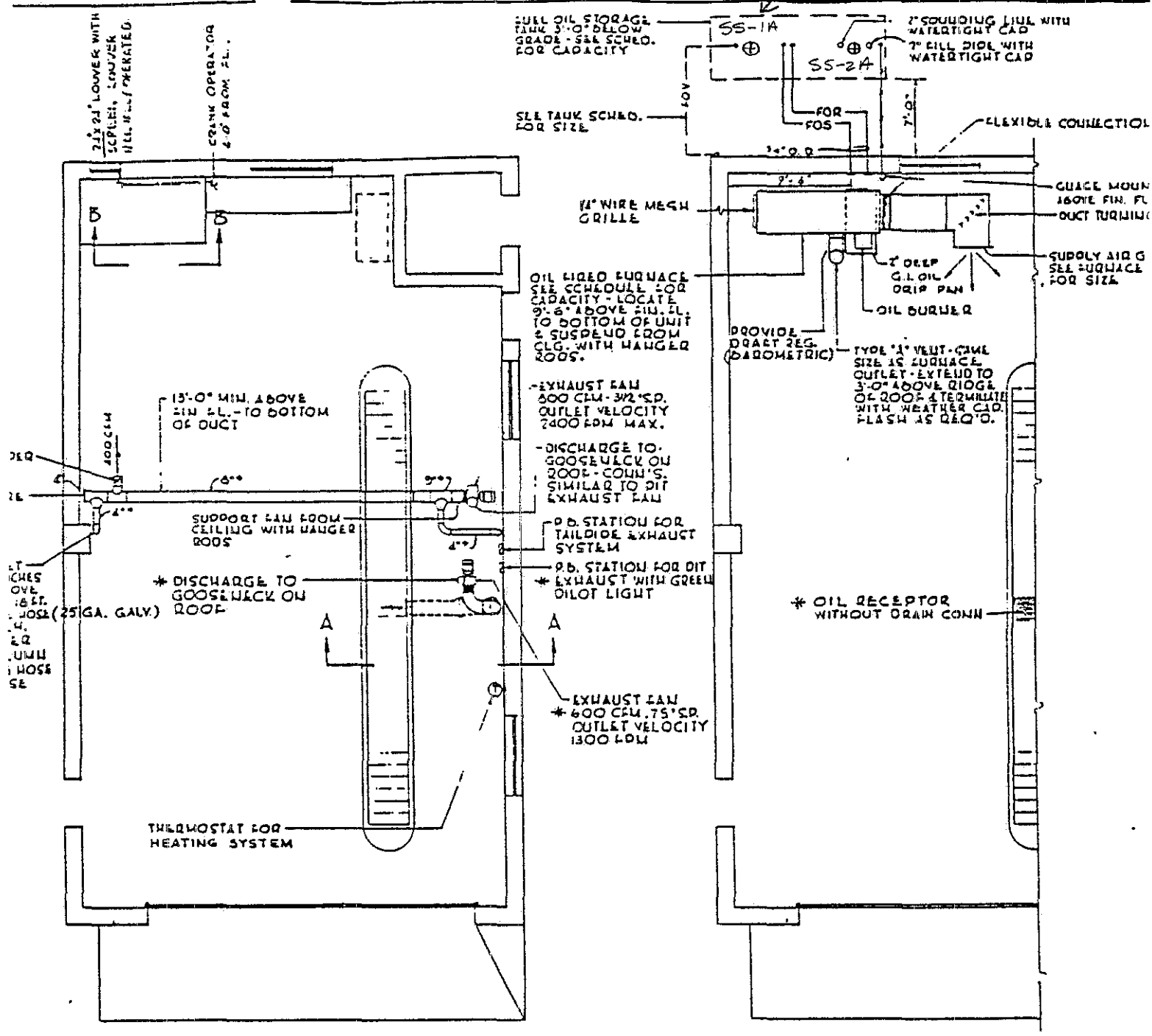
ATTACHMENT 1-2

NOTE / LOCATION OF DUCTS, FURNACE, HEATER ETC., TO REMAIN AS

SS-1A (10')
SS-2A (10')

1000 GAL HEATING
FULL TANK + PIPING
REMOVED

OMS SHOP
USARC, CAMBRIDGE,



FLOOR PLAN
VENTILATION SYSTEM
SCALE : 1/4" = 1'-0"

PART FLOOR PLAN
OIL FIRED HEATING SYSTEM
SCALE : 1/4" = 1'-0"

MVTL LABORATORIES, Inc.
P.O. BOX 249, 1126 N. FRONT STREET
NEW ULM, MN 56073-0249
PHONE (507) 354-8517 WATS (800) 782-3557 FAX (507) 359-2890

WE ARE AN EQUAL OPPORTUNITY EMPLOYER

Report To: ATTN GARY ECKERT
B & H PETROLEUM EQUIPMENT CO
218 S VICTORY DR
MANKATO MN 56001-5329

Work Order #: 21-6098
Date Sampled: 8/26/92
Date Received: 8/31/92
Date Extracted: N/A
Date Analyzed: See Below
Date Reported: 9/ 3/92
Account Number: 0013126

RUSH: NOT REQUESTED
Project Name: US ARMY RESERVE (CAMBRIDGE)
Project Number: 018888

Log Number	Sample Description	MTBE (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-Benzene (ppb)	Xylenes (ppb)	Total Purgeable Hydrocarbons As Gas (ppm)	As Fuel Oil (ppm)	As Kerosene (ppm)
92-Q1790	SS-1A (10')	*****	BDL	BDL	BDL	BDL	*****	BDL	*****
Date Analyzed:	9/ 2/92								
Minimum Detection Limit		*****	20.0	20.0	15.0	15.0	*****	5.0	*****
92-Q1791	SS-2A (10')	*****	BDL	BDL	BDL	BDL	*****	BDL	*****
Date Analyzed:	9/ 2/92								
Minimum Detection Limit		*****	20.0	20.0	15.0	15.0	*****	5.0	*****
92-Q1792	SS-1 (9') STOCKPILE	*****	BDL	BDL	BDL	3580	*****	1130	*****
Date Analyzed:	9/ 2/92								
Minimum Detection Limit		*****	1000	1000	750.0	750.0	*****	250.0	*****
92-Q1793	SS-1 (12.5')	*****	BDL	BDL	BDL	BDL	*****	BDL	*****
Date Analyzed:	9/ 2/92								
Minimum Detection Limit		*****	20.0	20.0	15.0	15.0	*****	5.0	*****
92-Q1794	SS-2 (9')	*****	BDL	BDL	BDL	BDL	*****	BDL	*****
Date Analyzed:	9/ 2/92								
Minimum Detection Limit		*****	20.0	20.0	15.0	15.0	*****	5.0	*****

**** Analyte Not Requested
DL Below Detection Limits

Test Method: SW846 - 8020 / 5030 Modified

RECEIVED SEP 9 1992

Report approved by:
Terrance W. Baumgart; Chemist
By and for Minnesota Valley Testing Labs, Inc.

MVTL LABORATORIES, Inc.
1126 North Front Street
New Ulm, MN 56073
Phone: (507) 354-8517
Wats: (800) 782-3557 Fax: (507) 359-1231

WORK ORDER # 21-6098

Project Name/Number: US ARMY RESERVE (CAMBRIDGE)

CHAIN OF CUSTODY RECORD

PLEASE DO NOT WRITE IN THE SHADED AREAS

Report to: B+H PETROLEUM
Address: EG
Phone: Fax:

Invoice to: SAME
Address:
Phone:

Name of Sampler: GARY ECKERT
Representing: B+H

Lab Use Only	Your Sample I.D. or Number	Sample Description	Date / Time	Type of Sample (Matrix or Substance) Soil	Water	Food	Other (Please Be Specific)	Analyze For:
	Example	Tank Bottom Tank #3	5/20/91 11:45 a.m.			X	Sampled Liquid Layer Not bottom sludge	Vitamin A, TKN, Iron, Calcium BOD, COD, Acetone, Shelf Life
92-01790	SS 1A 10'		8/26/92					MPCA REQUIREMENTS for HEATING FUEL
92-01791	SS 2A 10'							
92-01792	SS 1-9' STOCKPILE							
92-01793	SS 1-12.5"							
92-01794	SS-2-9"							

	Transferred by:	Comments: (Sample Condition)	Date / Time	Received by:	Comments: (Sample Condition)	Date / Time	°C
1				Mary Lou Kemp		31 Aug 92 2:40 PM	
2							
3							
4							

Disposed of By:

Disposal Comments:

K7980 KEMSKE PAPER CO. NEW ULM, MN

Please submit the top two copies with your samples. We will return the completed original with your results.

Notification for Underground Storage Tanks

Minnesota Pollution Control Agency
Hazardous Waste Division Tanks and Spills Section
520 Lafayette Road North St. Paul, MN 55155

for office use:
ID#
LK#

PO-00410-03 (8/90)

A. Name of Tank Site: US ARMY RESERVE

Tank Site Address: 5410 5TH AV NW

Fire Marshal Permit #:

City: CAMBRIDGE

Zip Code: 55008-1037

Phone: (612) 689-1343

County: ISANTI

B. Name of Owner: COMMANDER, 88th ARCOM

Mailing Address: ATTN: AFRC-AMN-EN

City: FT SNELLING

State: MN

Zip Code: 55111-4009

Phone: (612) 725-5272

Questions? Call (612) 643-3413 or Toll-free 1-800-652-9747 during normal business hours

C. **Tank number** Type or use ink and complete as best as possible. Please photocopy form if site has more than 3 tanks.

1. Assign a 3 digit number to each tank *(eg. 001, 002...)*: 001 | 002 |

2. Installation date: 1959 (mo/da/yr) | 1961 (mo/da/yr) |

3. Is tank currently used?

1		2		3	
yes	no	yes	no	yes	no
☐	☒	☐	☒	☐	☐

D. **Tank Action** 1. Please check applicable box(es).

	1	2	3
Initial notification	☐	☐	☐
Add new tank(s) to site	☐	☐	☐
Change in tank owner	☐	☐	☐
Change tank contents	☐	☐	☐
Repair tank (please explain in Box K)	☐	☐	☐
Remove tank	☒	☒	☐
Close tank in place	☐	☐	☐
Temporary closure	☐	☐	☐
(product in tank, in # of gallons)			

2. Please write date of above action: 8/25/92 | 8/25/92 |

E. **Tank Information** Please check applicable boxes.

1. Type of Pump:

	1	2	3
Submersible	☐	☐	☐
Suction	☒	☒	☐
Other (specify in Box K)	☐	☐	☐

2. Type of Tank:

	1	2	3
STIP3	☐	☐	☐
Fiberglass	☐	☐	☐
Composite	☐	☐	☐
Asphalt coated steel	☒	☒	☐
Painted steel	☐	☐	☐
Bare steel	☐	☐	☐
Concrete	☐	☐	☐
Other (specify in Box K)	☐	☐	☐

3. Capacity: (# of gal) 2,000 | 1,000 |

4. Substance Currently or Last Stored:

	1	2	3
Regular gasoline	☐	☐	☐
Unleaded gasoline	☐	☐	☐
Diesel	☐	☐	☐
Used (waste) oil	☐	☐	☐
Fuel (heating) oil	☒	☒	☐
Kerosene	☐	☐	☐
Hazardous substance (specify chemical and tank # in Box K, on back)	☐	☐	☐
Other (specify in Box K)	☐	☐	☐

5. Corrosion Protection.

	1	2	3
Anodes	☐	☐	☐
Impressed current	☐	☐	☐
Internal	☐	☐	☐
Not needed	☐	☐	☐

(if certified by corrosion expert, write name and PE or certification # in Box K)

turn page over!

Use of this form is required as per Minn. Stat. 116.48 and 40 CFR. part 280

MINNESOTA POLLUTION CONTROL AGENCY
APPLICATION TO TREAT PETROLEUM CONTAMINATED SOIL
MAY 1991

I. MINNESOTA POLUTION CONTROL AGENCY SITE ID NUMBER:LEAK# 5591

II. MPCA PROJECT MANAGER: EDWIN BALCOS

III. SOURCE OF SOIL:

FACILITY NAME: U.S. ARMY RESERVE CORP.
STREET ADDRESS 540 5th AVE. N.W.
CITY, STATE,ZIP CAMBRIDGE, MN. 55008

CONTACT NAME: DIRECTOR OF CONTRACTING
TELEPHONE: 608-388-3347

IV. CONTAMINATION DETAILS:

WEIGHT OF SOIL(TONS): ONE CUBIC YARD OF SOIL IS APPROX. EQUIVALENT TO 1.4 TONS: 30 TONS

TYPE PETROLEUM CONTAMINATION:GASOLINE, DEISEL FUEL, (FUEL OIL), WASTE OIL* (CIRCLE ONE)

CONTAMINANT CONCENTRATION (PARTS PER MILLION)

BENZENE	BDL					
TOLUENE	BDL					
ETHYL BENZENE	BDL					
XYLENE	3.58					
TOTAL LEAD	NA					
TOTAL HYDROCARBONS AS (FUEL OIL) OR GASOLINE	1130					

SOIL TYPE(SAND, SILT, CLAY, ETC.) SAND

*NOTE: IF THE PETROLEUM CONTAMINATION IS WASTE OIL, CHROMIUM, CADMIUM AND POLYCHLORINATED BIPHENYLS ANALYSES WILL ALSO BE NECESSARY.

V. THERMAL TREATMENT UNIT:

NAME: AITKIN BLACKTOP, INC.
ADDRESS: DUFFY'S PIT
(IF PORTABLE, WHERE WILL PLANT BE LOCATED)
CITY,STATE,ZIP: BELLE PLAINE, MN.

PLANT MODEL NUMBER: BARBER GREENE # 848
(IF PORTABLE, SEPERATION DISTANCE IN FEET FROM NEAREST RESIDENCE.) 1300 ft.

SOIL BURN TIME 5 MINUTES @ 625 DEGREES F.

CONTACT NAME: MARTY MARTIN TITLE: SALES/MARKETING
TELEPHONE: (612)328-5274 SITE PHONE: (612)759-1164
AIR QUILITY PERMIT NUMBER: 2426-91-OT-1

9/14/92
DATE

SIGNATURE OF AUTHORIZED THERMAL TREATMENT UNIT REPRESENTATIVE ACCEPTING SOIL.

VI. DATE TREATMENT WILL BE COMPLETED: _____ (IF STOCKPILED BEFORE BEING TREATED, ALL PETROLEUM CONTAMINATED SOIL MUST BE PROPERLY MANAGED, HANDLED, AND PROTECTED FROM RUN-OFF, INFILTRATION AND RUN-ON.) **POST BURN TESTING IS REQUIRED.**

VII. FINAL DISPOSITION OF TREATED SOIL: (HOW USED, LOCATION)

ROADBASE

VIII. INDIVIDUAL SUBMITTING REQUEST:

COMPANY NAME: AITKIN BLACKTOP INC. C/O MARTIN INVESTMENTS
ADDRESS: 14307 75th STREET
CITY, STATE, ZIP BROWNTON, MN. 55312
CONTACT NAME: MARTY MARTIN
TELEPHONE (612) 328-5274
SIGNATURE: _____
DATE: 9/14/92

MAIL TO: PROJECT MANAGER
MINNESOTA POLLUTION CONTROL AGENCY
HAZARDOUS WASTE DIVISION
TANKS AND SPILLS SECTION
520 LAFAYETTE ROAD
ST. PAUL, MINNESOTA 55155
FAX # (612) 642-0465

AITKIN BLACKTOP, INC
C/O MARTIN INVESTMENTS
14307 75th STREET
BROWNTON, MN 55312
(612-328-5274) OFFICE
(612-328-4096) FAX

DATE OCT. 9, 1992

MINNESOTA POLLUTION CONTROL AGENCY
HAZARDOUS WASTE DIVISION
TANKS AND SPILLS SECTION
520 LAFAYETTE ROAD
ST. PAUL, MN 55155

RE: PETROLEUM CONTAMINATED SOIL TREATMENT

SITE U.S. ARMY RESERVE CORP.(CAMBRIDGE)

SITE ID# 5591

PROJECT MGR. EDWIN BALCOS

THE TREATMENT OF THE SOIL AT THE ABOVE SITE AS PER APPLICATION DATED 9/14/92 , WAS COMPLETEED AS OF 9/22/92 .

SINCERELY

MARTY MARTIN
AITKIN BLACKTOP, INC.
C/O MARTIN INVESTMENTS

19 CUBIC YARDS PROCESSED FINAL USE ROADBASE

9/22/92 POST BURN TEST DATES

SERCO Laboratories

1931 West County Road C2. St. Paul. Minnesota 55113 Phone (612) 636-7173 FAX (612) 636-7178

LABORATORY ANALYSIS REPORT NO: 23515 PAGE 1
10/08/92

Aitkin Blacktop, Inc.
c/o Martin Investments
14307 75th St.
Brownton, MN 55312

Attn: Marty Martin

DATE COLLECTED: 09/22/92
DATE RECEIVED: 10/02/92
COLLECTED BY : CLIENT
DELIVERED BY : CLIENT
SAMPLE TYPE : SOIL

SERCO SAMPLE NO:	94312
SAMPLE DESCRIPTION:	U.S.Army Corp Camb-ridge
ANALYSIS:	
Benzene, mg/kg	0.084
Ethylbenzene, mg/kg	0.051
Toluene, mg/kg	0.13
Xylene, mg/kg	0.044
FID Scan, mg/kg, as #2 fuel oil	<2.0
FID Scan, mg/kg, as gasoline	1.1

All analyses were performed using EPA or other accepted methodologies. Samples that may be of an environmentally hazardous nature will be returned to you. Other samples will be stored for 30 days from the date of this report, then disposed of by SERCO Laboratories. Please contact me if other arrangements are needed. This report may not be reproduced, except in its entirety, without prior written approval from SERCO Laboratories.

Report submitted by,

Diane J. Anderson
Project Manager

< means "not detected at this level". 1 mg = 1000 ug.

MEMBER

Silver Celebration 25/20

Minnesota Pollution Control Agency

Celebrating our 25th anniversary and the 20th anniversary of the Clean Water Act

November 12, 1992

Ms. Dawn Oswald
United States Army, Director of Contracting
Building 2103 Fort McCoy
Sparta, Wisconsin 54646-5000

Dear Ms Oswald:

RE: Contaminated Soil Corrective Action Plan Approval
Site: U.S. Army Reserve Center, 540 5th Avenue Northwest, Cambridge, MN
Site ID#: LEAK 00005591

The Minnesota Pollution Control Agency (MPCA) has received the monthly log from the thermal treatment facility that has accepted the petroleum contaminated soil from the above-referenced site. This submittal, along with the "Application to Treat Petroleum Contaminated Soil", if signed by the responsible person and the authorized thermal treatment unit representative, constitutes an acceptable form of a soil corrective action plan and is hereby approved by the MPCA staff.

This approval qualifies you under Minn. Stat. 115c.09, subd. 2(a)(1) (Supp. 1991) to be eligible for Petrofund reimbursement of eligible cleanup costs incurred up to the date of this letter. Application for reimbursement must be made directly to the Petrofund. The Petro Board makes the final decision on reimbursement. Reimbursement decisions are based on factors such as the adequacy of cleanup, reasonableness of cost, compliance with notification laws and cooperativeness with the MPCA.

Please note that this approval applies only to the process of thermal treatment of the petroleum contaminated soil and does not constitute MPCA staff's approval of the volume of contaminated soil excavated at the above-referenced site.

If you have any questions, please contact me.

Sincerely,

for Bob Dullinger, Supervisor
Cleanup Unit II
Tanks and Spills Section
Hazardous Waste Division

BD:jw

DEPARTMENT OF THE ARMY
HEADQUARTERS FORT McCOY
SPARTA, WISCONSIN 54656-5000

REPLY TO
ATTENTION OF

AFZR-DE-E (200-1a) 17 December 1992

MEMORANDUM FOR COMMANDER, HQ 88TH ARCOM, ATTN: AFRC-AMN-EN (MR. BILL PORTER), 506 ROEDER CIRCLE, FORT SNELLING, MN 55111-4009

SUBJECT: FY92 UST Removals at Mankato, MN and Cambridge, MN USARCs

1. Enclosed are the final closure reports prepared by B&H Petroleum Equipment Company for underground storage tank (UST) removals at Cambridge and Mankato, Minnesota Army Reserve Centers. A letter from the Minnesota Pollution Control Agency (MPCA) concerning the Mankato removal is also enclosed. Mr. Kurt Brownell of Fort McCoy's Environmental Management Division (EMD) has reviewed these documents. No further action by B&H Petroleum Equipment Company concerning their reports is required. These reports indicate that UST removals at both locations resulted in clean closures and additional work at these sites is not necessary. The enclosed MPCA letter is a preliminary review of information supplied to the state by the contractor and does not release the Army from possible future liability.

2. Included as part of each closure report are two Notification for Underground Storage Tank forms. These notification forms are found at Tab G in the Mankato closure report and at Tab E in the Cambridge closure report. Block I, Owners Signature, must be signed by your commander on both forms. After the notification forms are signed, the closure reports should be submitted to Mr. Edwin Balcos or Ms. Christen Coe at MPCA, Hazardous Waste Division, Tanks and Spills Section, 520 LaFayette Road, St. Paul, MN 55155. The Cambridge MPCA project manager is Mr. Balcos, and Ms. Coe is the project manager for the UST removal at Mankato. Mr. Balcos and Ms. Coe will determine if any further action at either site is warranted or if these cases can be closed.

3. Please contact Mr. Brownell, EMD, DSN 280-2160/2363 or Commercial (608) 388-2160/2363 if you have questions concerning this correspondence or need assistance with the UST program.

FOR THE COMMANDER:

MARVIN W. WESTENBURG
LTC, EN
Director, DE

Encls
as

CF:
Off-Post Facilities Division

ENCLOSURE 5
ENVIRONMENTAL ASSESSMENT

MN006

Received 7/29/96

USAR FACILITY ENVIRONMENTAL ASSESSMENT REPORT

TABLE OF CONTENTS

Section 1 - Facility Data Sheet
USAR Facility Environmental Assessment Report
Supporting RSC: 88th

FACILITY NAME: **CAMBRIDGE MEMORIAL USARC**

LOCATION: **CAMBRIDGE, MN**

FACILITY ID NUMBER: MN-006

FACILITY TYPE: USARC X ; OMS ; AMSA ; ECS ;
Specify Other

TELEPHONE NUMBER OF FACILITY MANAGER: (612) 689-1343

SURVEY TEAM DESIGNATION: **FORT SNELLING FACILITY EVALUATION TEAM**

Address: BOX 14, 506 ROEDER CIRCLE
FT.SNELLING, MN 55111

Team Leader: LTC RICHARD STRONG

Team Members: MAJ WAYNE WHALEY
CPT KEN HARNACK
SSG PAUL STOEHR
SSG ROBERT GUNDERSON

FACILITY PERSONNEL INTERVIEWED: **Dennis Valentyn, Facility Manager**

SURVEY DATE: **6 MAY 1996**

DATE OF LAST SURVEY: **None**

Section 2 - Executive Summary
for the USAR Facility Energy Survey of
Cambridge USARC, Cambridge MN 55008
FFID: MN-006

1. The Cambridge USARC consists of a single story 4300 SF 25 man center and a detached 1100 SF Organizational Maintenance Shop (OMS). The construction is concrete block with brick veneer. A small 620 SY motor equipment park (MEP) and a small 820 SY POV parking lot are also located on site. Both the MEP and POV lots are asphalt paved. The center is situated on the northern edge of the city in a residential neighborhood with the Cambridge High School just north of the 4 acre reserve center property.

2. No significant environmental issues were noted during the assessment.

RICHARD B. STRONG
LTC, EN
Team Leader

TABLE 1-1
SUMMARY OF FINDINGS

INSTALLATION: CAMBRIDGE MEMORIAL USARC Fiscal Year: 1996
FFID: MN-2104MN006

SECTION NO.	TITLE	REGULATORY 1	2	HS	MANAGEMENT POS	3	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	1	0	0	1	0	0	2
HW	Hazardous Waste	0	0	0	0	0	0	0
NR	Natural Resource	0	0	0	0	0	0	0
01	Environmental Impacts	0	0	0	0	0	0	0
02	Environmental Noise	0	0	0	0	0	0	0
03	IRP	0	0	0	0	0	0	0
04	Pollution Prevention	0	0	0	0	1	0	1
05	Program Management	0	0	0	0	2	0	2
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	0	0	0
T4	Lead Based Paint	0	0	0	0	0	0	0
WA	Wastewater	0	0	0	0	1	0	1
WQ	Water Quality	0	0	0	0	0	0	0
	TOTALS	1	0	0	1	5	0	7

HM.35.9 #1 I FEDERAL FINDING Hazardous Materials
FINDING ID: 004
MANUAL QUESTION NUMBER: HM-035-009
FINDING CATEGORY: CLASS I
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: CUSTODIAL CLOSET AND MECHANICAL ROOM
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: Flammable/Combustible liquids inadequately stored.

CRITERIA: Areas where flammable/combustibles are stored must meet certain fire protection standards (29 CFR 1910.106 (d)(7)).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): Store flammable/combustible liquids in an approved storage area/cabinet.

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: _____

HM.1.4 #1 POSITIVE FEDERAL FINDING Hazardous Materials
FINDING ID: 005
MANUAL QUESTION NUMBER: HM-001-004
FINDING CATEGORY: POSITIVE
FINDING TYPE: Positive EXISTING NOV: NO
LOCATION: FACILITY
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: Right-to-know display located in a common area.

CRITERIA: Installations/CW facilities are required to have on file a MSDS for each hazardous chemical stored and used at the installation/CW facility (29 CFR 1910.1200(b)(3)(ii), 1910.1200(b)(4)(ii), 1910.1200(b)(6), 1910.1200(g)(1), and 1910.1200(g)(8)).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): None

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: _____

04.1.7.R #1 III ARMY/DOD FINDING Pollution Prevention
FINDING ID: 007
MANUAL QUESTION NUMBER: 04-001-007-R
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: FACILITY
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: The hazardous material inventory completed in October 1994 was not kept current.

CRITERIA: A master listing of all hazardous substances at handling, storage, and transfer facilities is required as a part of the SPCC Plan (AR 200-1, para 8-4b(4)).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): Keep hazardous material current as items are added and 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: _____

O5.1.2.R #1 III GMP FINDING Program Management
FINDING ID: 001
MANUAL QUESTION NUMBER: O5-001-002-R
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: FACILITY
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: There wasn't a central up to data file in place for all pertinent environmental documentation.

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: Finding common to most reserve centers.

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): With the assistance of 88TH RSC Engineer Environmental group develop a common filing and database for all facilities to standardize document and data storage.

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: _____

05.4.1.R #1 III GMP FINDING Program Management
FINDING ID: 002
MANUAL QUESTION NUMBER: 05-004-001-R
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: FACILITY
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: Facility coordinator did not have copies of Radon Survey, Asbestos Survey, or record of UST removal. This is pertinent Right-To-Know information for facility occupants.

CRITERIA: ARCOMS and Support Installations should share pertinent portions of environmental surveys, inventories, and management plans with their facility managers (MP.)

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): RSC to provide pertinent Environmental data to facility coordinator.

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.R #1 III ARMY/DOD FINDING Asbestos
FINDING ID: 003
MANUAL QUESTION NUMBER: T2-001-004-R
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: MECHANICAL ROOM, KITCHEN
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: Unknown insulation material in facility. Because no asbestos survey was at the facility, asbestos content is unknown.

CRITERIA: Facilities 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): Review asbestos survey to determine asbestos content. If it is at a hazardous level abate as soon as possible.

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: _____

WA.10.4 #1 III GMP FINDING Wastewater
FINDING ID: 006
MANUAL QUESTION NUMBER: WA-010-004
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: MEP
IFS FACILITY NUMBER:
FACILITY TYPE: MEP - PARKING AREA MEP

FINDING DESCRIPTION: There is no provision to pass stormwater runoff from MEP through an oil/water separator.

CRITERIA: Even where not covered by NPDES permits, stormwater discharge on the installation/CW facility should be uncontaminated and periodic surveillance of these discharges should be completed (MP).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): Design system to pass stormwater runoff from MEP through an oil/water separator.

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: _____

AFRC-CMN-EN (200-1) 16 June 2000

MEMORANDUM : Engineer, 88th Regional Support Command (RSC)

SUBJECT: Internal Environmental Assessment of the Cambridge Memorial United States Army Reserve Center (USARC) Facility Identification Number: MN006
Facility Manager: Mr. Dennis Valentyn

1. Mr. Steven M. Bragg completed an internal environmental assessment of the Cambridge Memorial USARC on 14 June 2000. During the assessment, the Unit Administrator/Facility Manager, Mr. Dennis Valentyn was interviewed. The facility is home for about 27 drilling reservists and 1 full-time employee. The unit at this center is Det. 1, 704TH Chemical Co. The main USARC building is a one-story, brick structure with a detached single story, brick Organizational Maintenance Shop (OMS).

2. Army Regulation 200-1 requires that USAR facilities receive an internal assessment at the midpoint of the external assessment 4-year cycle. In addition, the 88TH RSC requires an annual internal inspection on all facilities not receiving an external inspection during that year cycle. The 416th Facility Engineering Team conducted the last Environmental Compliance Assessment System inspection in 1996.

3. This internal assessment consists of reviewing facility files at the RSC, interviewing facility personnel, touring the facility, documenting findings, and summarizing the assessment with an educational report. This report should be printed, used to take corrective actions of the findings and placed in the facility environmental files.

4. A list of findings noted during the assessment follows:

A. Environmental Personnel. A facility environmental coordinator will be designated by the 88th Regional Support Command in the future. Presently, Mr. Valentyn is the acting environmental coordinator.

- **Hazardous Material and Spill Training**. At the time of the inspection, Mr. Valentyn was the only facility person holding a current hazardous material certification.

B. Facility Plans. The facility had no hazardous materials spill plan, so Mr. Bragg will send a fill-in-the-blank style template that can be customized for their facility. A pest management plan was completed at headquarters.

- Please note that Mr. Bragg can be reached through the 88TH RSC Staff Duty Officer (SDO) 24 hours a day at 1-800-843-2769, extension 3522, SDO Pager 1-800-385-3660, SDO Cell phone (612) 618-3047 for guidance on spills or other environmental

emergencies. Mr. Bragg must be contacted immediately after every spill so he can determine if a reportable quantity has been released. Reportable quantities for each substance differ, and must be reported to the Minnesota Pollution Control Agency within 24 hours.

C. Air Concerns: Asbestos, Lead, and Radon. Mr. Bragg was able to locate asbestos survey for the facility and note all identified asbestos containing material (ACM) was in good condition. However, the ACM was not labeled. This facility does not have an indoor firing range. Radon testing conducted in 1992 by Ft. McCoy indicated all areas tested were below the action level of 4 picoCuries per liter.

D. Underground Storage Tanks. The facility had two underground storage tanks that were. These tanks were removed in August 1992. Reports including certificates of removal are available at the RSC.

E. PCB Concerns. During the inspection, Mr. Bragg did not observed any electrical transformers on the facility.

F. Hazardous Material/Waste Inventory. The unit did have a hazardous material inventory, but has not shipped any hazardous waste in the last few years, subsequently a hazardous waste inventory was not available during the inspection. During the inspection, all hazardous materials were stored properly, but excess hazardous material, which had exceeded its expiration date, was present and should be turned in to DRMO for disposal. Mr. Bragg will assist the facility with this task.

G. OMS/MEP. Mr. Bragg toured the OMS and surrounding property. Mr. Bragg noted that Flammable liquids were not stored in a flammable storage locker in the OMS. Drip pans were not observed under vehicles in the MEP. Mr. Bragg suggests that the unit purchases the pans and any petroleum-contaminated water in the pans can be collected in a drum for disposal.

H. Recycling Program. The facility has an active recycling program.

I. **Contact.** Mr. Bragg at (612) 713-3802 if there are any questions or concerns about this report or environmental issues.

Steven M. Bragg, CHMM
State Environmental Manager-Minnesota
Bregman and Company

CC: Mark Buck, Chief, 88th RSC Environmental Division
Dennis Valentyn, Facility Manager, Cambridge USARC

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

Minnesota Section 110 Inventory

Fort McCoy Cultural Resources Management Series
Reports of Investigation Number 22

Prepared for

U.S. Army Reserve Command
88th Regional Support Command - Directorate of Engineering
Environmental Division
Fort Snelling
Minneapolis, Minnesota

Prepared by

Ted Grevstad-Nordbrock
Jason Tish
Andrea Den Otter
Fort McCoy Archaeology Laboratory
Directorate of Training and Mobilization
Fort McCoy, Wisconsin
August 2000

Editorial Review

Jason L. Tish
Andrea R. Den Otter
Fort McCoy Archaeology Laboratory
March 2001

THIS DOCUMENT CONTAINS ARCHAEOLOGICAL SITE INFORMATION INTENDED FOR MANAGEMENT AND PRESERVATION PURPOSES AND SHOULD NOT BE DISTRIBUTED TO THE PUBLIC WITHOUT PERMISSION FROM THE MINNESOTA STATE HISTORIC PRESERVATION OFFICER AND THE DEPARTMENT OF THE ARMY.

Cover: Buffalo USARC, Buffalo, Minnesota

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 locate, 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 "

List of Acronyms

IV Corps	Fourth Army Reserve Corps
AFRC	Armed Forces Reserve Center
AMSA	Area Maintenance Support Activity
AR	Army Regulation
ARCOM	Army Reserve Command
ARNG	Army National Guard
BMA	Base (or Branch) Maintenance Activity
CCC	Civilian Conservation Corps
CFR	Code of Federal Regulations
CMTC	Citizens Military Training Camp
CS	Combat Support
CSS	Combat Service Support
DA	Department of Army
DCSEN	Deputy Chief of Staff Environmental
EFS	Engineering Feasibility Study
EIS	Environmental Impact Study
EMAAR	Engineer Management Automation Army Reserve
FAC NUM	Facility Number
FMAL	Fort McCoy Archaeology Laboratory
FY	Fiscal Year
HABS	Historic American Building Survey
HAER	Historic American Engineering Record
HQDA	Headquarters, Department of the Army
ICRMP	Integrated Cultural Resource Management Plan
ISSA	Interservice Support Agreement
LTA	Land (or Local) Training Area
MACOM	Major Army Command
MCAR	Military Construction, Army Reserve
MEP	Military Equipment Parking
MSC	Major Subordinate Command
NAVFACENCOM	Naval Facilities Engineering Command
NHPA	National Historic Preservation Act
NRHP	National Register of Historic Places
OCAR	Office Chief, Army Reserve
OMAR	Operations and Maintenance, Army Reserve
OMS	Organizational Maintenance Shop
ORC	Organized Reserve Corps
POC	Point of Contact
POV	Privately Owned Vehicles

REPR	Real Estate Planning Report
ROTC	Reserve Officers Training Corps
RSC	Regional Support Command
SHPO	State Historic Preservation Office
SST	Site Selection Team
USACE	United States Army Corps of Engineers
USAF	United States Air Force
USAR	United States Army Reserve Command
USARC	United States Army Reserve Center
USGS	United States Geological Survey
UTM	Universal Transverse Mercator

Executive Summary

In 1997, the 88th Regional Support Command (RSC) contracted Fort McCoy Archaeology Laboratory, Directorate of Training and Mobilization, Fort McCoy, Wisconsin, to conduct a historic properties inventory of all U.S. Army Reserve Command (USARC) facilities located within the State of Minnesota. The inventory was accomplished in accordance with the provisions of Section 110 of the National Historic Preservation Act (NHPA). A total of 22 USARC facilities were inventoried during this study and buildings at each site were assessed for their eligibility to the National Register of Historic Places (NRHP).

The purpose of the *Minnesota Section 110 Inventory* is to provide a detailed inventory of properties controlled or leased by the 88th RSC. This report provides the 88th RSC with a complete inventory of buildings and features located on individual USARC facilities, and evaluates their potential eligibility for nomination to the NRHP. The bulk of this report contains profiles of individual properties discussing historical information, descriptions of the physical components of each facility, and comprehensive assessments of NRHP eligibility. This document is designed to permit removal of individual facility reports.

Introduction

In 1997, the 88th Regional Support Command (RSC) contracted the Fort McCoy Archaeology Laboratory 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 report describes the recordation methods, physical descriptions, evaluation criteria, and the status of potential eligibility for nomination to the National Register of Historic Places (NRHP) for all properties controlled by the 88th RSC in the State of Minnesota. Information contained in this report also includes an explanation of the sources and informants used to evaluate the actions to nominate properties to the NHRP and recommendations for future NRHP reevaluation.

Preliminary investigations for the inventory included conducting interviews and documentary research at the Minnesota State Historic Preservation Office (SHPO). Members of the Fort McCoy Archaeology Laboratory met with architectural historians and archaeologists to discuss the objectives and methodologies involved with the Section 110 inventory. Historic research needed for the analysis of each USARC facility was conducted at the Minnesota State Historical Society, 88th RSC DSCEN Real Estate Division, county courthouses, and local libraries. Personal interviews were conducted with USARC personnel at each facility. Fort McCoy Archaeology Laboratory investigators consulted the Minnesota Archaeological Sites Index, maintained by the Minnesota SHPO, to determine the location of any known archaeological sites located within a one-mile radius of each USARC facility. Minnesota sites listed on the NRHP were reviewed prior to commencement of fieldwork for the inventory. On-site documentation of USARC facilities was conducted from July through October 1999. Buildings and features associated with USARC facilities that potentially 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 USARC facilities within the State of Minnesota was conducted with methods 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-term 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 Minnesota SHPO regarding previous

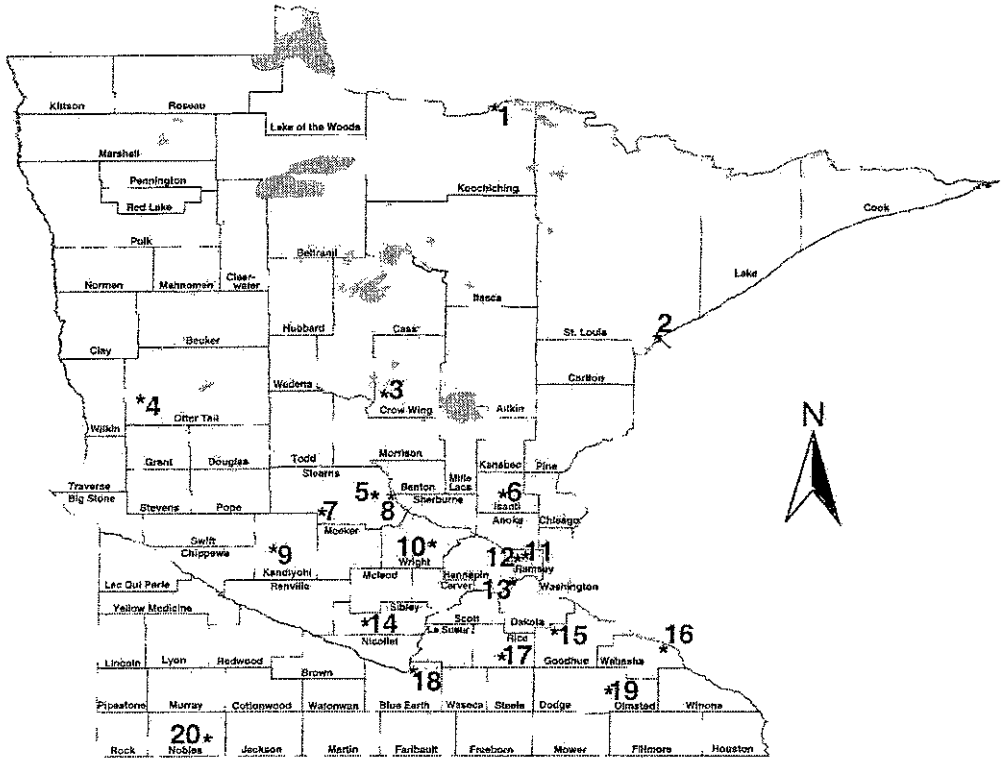
archaeological or historical architectural investigations of U.S. Army Reserve Command properties within the State of Minnesota. No additional information was found for USARC facilities in Minnesota. Discrepancies between existing documentary files about USAR buildings and structures and on-site recordation conducted by members of the Fort McCoy Archaeology Laboratory are discussed in detail within the individual facility sections of this report. All known archaeological sites within a one-mile radius of the USARC facilities were identified on records maintained by the Minnesota SHPO and included in discussions of individual USARC facilities. Historic themes accepted by the Minnesota SHPO were followed in preparation of the historic context and in identifying historic properties.

Fieldwork for the Section 110 Inventory project was conducted by Fort McCoy Archaeology Laboratory personnel and reviewed by a historian who meets the *Secretary of Interior's Professional Qualification Standards* at 36 CFR61 Methods used during on-site recordation of buildings and structures at USARC facilities follow accepted practices within the field of historic research and historic preservation. These included, but were not limited to, the documentation of historic buildings and properties, review of architectural documentation conducted on-site, 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. A historian who meets the *Secretary of the Interior's Professional Qualification Standards* at 36 CFR61 reviewed the on-site documentation gathered by Fort McCoy Archaeology Laboratory field technicians and assessed the potential eligibility for the NRHP

Methodology

Members of the Fort McCoy Archaeology Laboratory conducted a formal literature and record search of each property controlled by the 88th RSC (**Figure 1**) The objective of this search was to establish the historical and archaeological context associated with each USARC facility Fort McCoy Archaeology Laboratory investigators conducted research the Minnesota SHPO office 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 found in SHPO files were documented and evaluated in terms of their significance to USARC locations. Additional research was conducted at local historical societies and municipal governments to provide supplementary documentary and cartographic information relevant to the historic context of individual sites.

LOCATIONS OF ARMY RESERVE FACILITIES AND LANDS WITHIN THE STATE OF MINNESOTA



KEY TO NUMBERS

1. INTERNATIONAL FALLS, MN - Koochiching Memorial USARC
2. DULUTH, MN - Duluth USARC
3. BRAINERD, MN - Terrence A. Peterson USARC
4. FERGUS FALLS, MN - Erving L. Peterson Memorial USARC
5. ST. JOSEPH, MN - AMSA #101 & Land for Future USARC
6. CAMBRIDGE, MN - Cambridge Memorial USARC
7. PAYNESVILLE, MN - Paynesville USARC
8. ST CLOUD, MN - St. Cloud AFRC
9. WILLMAR, MN - Willmar Memorial AFRC
10. BUFFALO, MN - Buffalo USARC
11. ARDEN HILLS, MN - Arden Hills USARC
12. NEW BRIGHTON, MN - TCAAP USARC
13. FORT SNELLING, MN - Fort Snelling USARC
14. WINTHROP, MN - Henry H. Sibley Memorial USARC
15. CANNON FALLS, MN - Cannon Falls USARC
16. WABASHA, MN - Wabasha Memorial USARC
17. FARIBAULT, MN - GEN Beebe USARC & AMSA #111
18. MANKATO, MN - Mankato Memorial USARC & LTA
19. ROCHESTER, MN - Rochester AFRC
20. WORTHINGTON, MN - Worthington Memorial USARC

Figure 1. Locations of Army Reserve facilities and lands within the State of Minnesota.

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). 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 NRHP eligibility of each building on the USARC facilities; and

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

The historic themes used to evaluate the historic contexts associated with the properties analyzed in this inventory were taken with consideration to guidelines published by the Minnesota SHPO. The results of the historical and architectural surveys conducted by members of the Fort McCoy Archaeological Laboratory are described in the individual USARC facility sections of this report.

Historical Literature Review

The methodology for the Minnesota 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, members of the Fort McCoy Archaeology Laboratory conducted historic research of documents including:

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 of each USARC facility;

4) NRHP eligibility nominations filed with the Minnesota SHPO (when applicable),

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

6) examination of historic documents housed at the Minnesota SHPO Office and regional county courthouses;

7) examination of deed records housed at regional county courthouses; and

8) examination of previous cultural resource, archaeological, architectural, and environmental surveys conducted by government agencies and private contract firms for each USARC facility (when available)

Architectural Fieldwork

Historic research of buildings and structures located on each USARC facility was conducted to establish an initial database of the architectural styles encountered during on-site documentation. Architectural fieldwork consisted of producing in-depth textual descriptions that included the following information (when applicable):

1) Type of building;

2) Date of construction,

3) Date of acquisition;

4) Architectural style;

5) Foundation material,

6) Number of bays;

7) Plan shape,

8) Wall construction,

9) Roof type;

10) Roof materials;

11) Chimney construction,

12) Chimney placement;

13) Type and location of entrances,

14) Type and location of fenestration,

15) Relationship of all buildings on the facility;

16) Integrity of each building;

17) Potential threat to the buildings, and

18) Security of buildings, structures, and the property

On-site photographic documentation captured the exterior of each building, structure, and object located on the Minnesota USARC facilities. Comprehensive views and unique architectural elements of each building were recorded in 35-mm black and white and digital format. Data collected during on-site documentation and assessments was compiled into the Minnesota Section 110 Inventory report and entered into USARC databases maintained by the Fort McCoy Archaeology Laboratory

The Minnesota Section 110 Inventory Report

The Minnesota Section 110 Inventory is intended to provide the Commander, 88th RSC, with a comprehensive overview of all USARC properties in Minnesota. Specifically, this report provides architectural, historic, 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*.[i] The report also includes assessments of the historic and architectural significance of each USARC facility conducted by a historian who meets *The Secretary of Interior's Professional Qualification Standards* at 36 CFR 61 Based on data gathered during the on-site visits, the historian determined the future research potential of each facility, and assessed each building in regard to its potential eligibility for nomination under Criteria A, B, C, and D to the NRHP

Information included in discussions of individual USARC facilities may be repeated in the introduction and discussion sections. Although repetitive within a comprehensive view, providing discussions of individual USARC facilities allows this report to be used more effectively by cultural, environmental, and facility managers on the command, state, and unit levels. 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 location information;

6) Present Ownership/Occupant;

7) Setting & Landscape;

8) Archaeological Resources,

9) Historical Information,

10) Architectural Information;

11) Security;

12) Building Descriptions,

13) NRHP Eligibility;

14) Recommendations;

15) Sources, and

16) Notes.

Discussions contained in individual USARC facility sections of this report are designed to report data collected during on-site investigations of each facility in a similar manner to establish a consistent reporting style. Therefore, individual sections (including the setting and landscape, archaeological resources, security, building descriptions, eligibility and recommendations) of the discussions of each USARC are written in the same stylistic manner in regard to content, grammar, and word usage. Although phrased in the same manner, the information contained for each USARC facility is specific to that site.

National Register Criteria of Evaluation

All buildings and structures located the USARC facilities were assessed for their 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 are listed below

NRHP 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 [ii]

NRHP 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; or

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

Historical Background

Prehistoric Periods of Minnesota

Paleoindian Tradition (ca. 11,000 BC – 6000 BC)

The archaeological evidence supporting the presence in Minnesota of the earliest Paleoindian tradition peoples is disappointingly meager. There are no scientifically excavated archaeological materials from sites in Minnesota that can be definitively attributed to the makers of either Clovis or Folsom projectile points. There have been rare finds of isolated Clovis and Folsom points on the surface of agricultural fields after plowing, but these all have lacked association with human activity. It is only in the later phases of the Paleoindian tradition that archaeological evidence is accumulating to show human populations spreading throughout the state. The finds relating to later peoples of this tradition, who were probably bison hunters like their predecessors in other areas of the plains and Great Lakes regions, have been found mostly in

Cambridge Memorial USARC
Cambridge, Minnesota

Identification Information

Facility Identification Number: MN006
INS NO: 27815
Facility Name: Cambridge Memorial United States Army Reserve Center
Street Address: 540 5th Ave. NW, Cambridge, Isanti County, MN
Mailing Address: 540 5th Ave. NW, Cambridge, MN 55008-1037
Telephone Number: (612) 689-1343
Map Reference: Cambridge, Minn. Quadrangle. USGS 7.5 Minute Series (**Figure 1**).
Township, Section, Range: T36N, R23W, Section 29
UTM at SW corner of property: Z15T, 0481960E, 5047160N
Present Owner/Occupant: The facility is owned by the U.S. Government and controlled by the 88th RSC.

Setting and Landscape

The Cambridge Memorial USARC consists of two buildings on 4 acres of graded, landscaped property (CA011) in a residential area of Cambridge, Minnesota (**Figure 2**). The north edge of the property slopes down sharply toward the local high school, and about a mile to the west is the Rum River, which flows from Lake Mille Lacs south to the Mississippi River. The property is mostly grass-covered with small parking lots for military equipment and privately owned vehicles.

Cultural Resources

A search of the archaeological site index at the Minnesota State Historic Preservation Office (SHPO) determined that there are two recorded archaeological sites located within a one-mile radius of the Cambridge Memorial USARC. Site 21IA39 consists of several Late Woodland flaked-stone artifacts casually collected from a garden and pasture on a private farmstead.[1] Site 21IA55 is a "findspot" where a single ground-stone tool was found.[2] There are no recorded sites on the facility property.

A search of the National Park Service's on-line database of properties on the National Register of Historic Places indicates that as of July 2000, there is one listed property within a one-mile radius of the USARC facility: the Isanti County Courthouse, located approximately 750 yards to the south. This property is listed as part of the Isanti County Multiple Resource Area.

Historical Information

The property now associated with Cambridge USARC was purchased by the United State Government in 1959 from a group of private citizens.[3] That same year a 25-member Reserve Center was constructed on the property.[4] The Reserve Center was dedicated on 30 May 1960 to the memory of deceased Veterans of the Armed Forces from the Cambridge area. A year later, in 1961, an Organizational Maintenance Shop (OMS) was constructed to support the Reserve Center.[5] For five years, between 1977 and 1982, the Army Reserve leased a 67.64-acre outdoor training area from rural Cambridge residents for training activities associated with Cambridge USARC.[6] The Reserve Center and OMS have served their original purpose and have not been altered since their construction. The 88th RSC gained Real Property control of Cambridge USARC in 1996.[7]

Security

Security measures at the Cambridge USARC include fencing and floodlights. A chain-link fence topped with barbed wire surrounds the OMS and the Military Equipment Parking (MEP) area. Freestanding, mercury vapor

lights illuminate the vehicle parking areas, and wall-mounted lamps provide illumination to the perimeter of each building.

Architectural Information

The Cambridge USARC is comprised of two buildings: a Reserve Center that dates from 1960, and an OMS that dates from 1961. The Reserve Center is a one-story, gabled brick building that is irregular in plan. The OMS is a one-and-one-half-story building, also gabled and of brick. The design of both buildings is typical of those small rectangular Reserve Centers built around the country between 1958 and 1960. Doors and windows on both buildings were replaced in 1993. Neither building exhibits any significant historical or architectural character or merit.

Building Description: Reserve Center (CA001)

General Characteristics. The Reserve Center (RC) provides office space and training areas for reservists at the Cambridge Memorial USARC (**Figures 3-6**). The walls of the building are brick, and the foundation is concrete. The RC's low-pitch, gabled roof runs in an east-west direction. The areas around the door frames on the south, east, and west walls and below certain windows are accented with what appears to be ceramic (or possibly terra cotta) tiles. Aside from this, the RC is devoid of ornamentation and cannot be labeled as an example of a particular architectural style.

Doors. The main entrance to the RC is on the south façade. Here, a set of paired glass pedestrian doors with sidelights and a transom is sheltered in a gabled vestibule with a north-south oriented roof. Decorative tiles frame the door composition. The east end of the building is pierced by two single pedestrian doors with fixed lights. A vertical panel separates the two doors, and suggests that each door leads to different room on the interior. The west end of the building contains a set of paired pedestrian doors. The door compositions on the east and west walls are both framed with decorative tiles. Finally, the north façade is pierced by a set of paired pedestrian doors with three translucent, fixed lights.

Windows. Fenestration on the RC involves awning and 1-over-1, fixed-over-awning windows. Four fixed-over-awning windows pierce the south façade, two to either side of the gabled entrance vestibule. Each of the windows on the public, south façade have decorative tiles akin to those on the doors. The opposite, north wall contains five fixed-over-awning windows and a single awning window. Two of the fixed-over-awning windows have translucent lights in the awning part of the window. The east façade contains four window sets, two to the north of the door composition and two to the south. Each set is comprised of paired 1-over-1, fixed-over-awning windows.

Building Description: Organizational Maintenance Shop (CA002)

General Characteristics. The one-and-one-half-story Organizational Maintenance Shop (OMS) provides space for the repair of military vehicles at the Cambridge Memorial USARC (**Figures 7-10**). The walls of the building are brick, and the foundation is concrete. The OMS' low-pitch, gabled roof runs in a north-south direction. Directly beneath the roofline on the north façade is an "flush pilaster"—a vertical variation is the bricks that visually bifurcates the façade. The OMS is devoid of ornamentation and cannot be labeled as an example of a particular architectural style.

Doors. The main entrance to the OMS is on south façade, where two single pedestrian doors mark the east corner of the wall. Another single pedestrian door appears at the diagonally opposite corner—the west end of the north façade. The west wall is pierced by an overhead-retractable bay door.

Windows. Fenestration on the OMS is limited to two 1-over-1, fixed-over-awning windows on the south façade, and a single 1-over-1, fixed-over-awning window on the east façade.

National Register of Historic Places Eligibility

The buildings located at the Cambridge Memorial USARC do not appear to 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 Cambridge 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 of the National Historic Preservation Act (NHPA) is recommended. However, additional review will be necessary if specific undertakings require compliance with Section 106 of the NHPA (36 CFR 800).

Notes

[1] Minnesota Archaeological Site Form. Site No. 21IA39 7 March 1978.
[2] Minnesota Archaeological Site Form. Site No. 21IA55 7 August 1995
[3] Warranty Deed. Instrument No. 92456, Deed Record No. 50.
[4] DA Form 2877. Real Property Record. Cambridge, Minnesota. Facility No. CA001, USAR Center 8 April 1960 - 26 June 1973.
[5] DA Form 2877 Real Property Record. Cambridge, Minnesota. Facility No. CA002, USAR Vehicle Maintenance. 29 September 1961 - 2 November 1988.
[6] Land Lease between Raymond D. Podabinski and Erika H. Podabinski and the United States of America. Lease number DACA 45-5-77-00464.
[7] DD Form 1354E. Transfer and Acceptance of Military Real Property. 7 August 1996.

Sources

Archaeological site index. Minnesota State Historic Preservation Office, St. Paul, Minnesota. June 1999

Cambridge, Minn. Quadrangle. USGS 7.5 Minute Series. Reston, Virginia: United States Geological Survey, 1983.

DA Form 2877: Real Property Record. Cambridge, Minnesota. Facility No. CA001, USAR Center. 8 April 1960 - 26 June 1973. Available at 88th RSC DSCEN Real Estate Division, Fort Snelling, MN.

DA Form 2877 Real Property Record. Cambridge, Minnesota. Facility No. CA002, USAR Vehicle Maintenance. 29 September 1961 - 2 November 1988. Available at 88th RSC DSCEN Real Estate Division, Fort Snelling, MN.

DD Form 1354E: Transfer and Acceptance of Military Real Property 7 August 1996. Available at 88th RSC DSCEN Real Estate Division, Fort Snelling, MN.

Land Lease between Raymond D. Podabinski and Erika H. Podabinski and the United States of America. Lease No. DACA 45-5-77-00464. Available at 88th RSC DSCEN Real Estate Division, Fort Snelling, MN

Minnesota Archaeological Site Form. Site No. 21IA39 7 March 1978 Available at the Minnesota State Historic Preservation Office, St. Paul, MN

Minnesota Archaeological Site Form. Site No. 21IA55. 7 August 1995. Available at the Minnesota State Historic Preservation Office, St. Paul, MN

Warranty Deed. Instrument No. 92456, Deed Record No. 50. Available at Isanti County Recorder's Office, Cambridge, Minnesota.

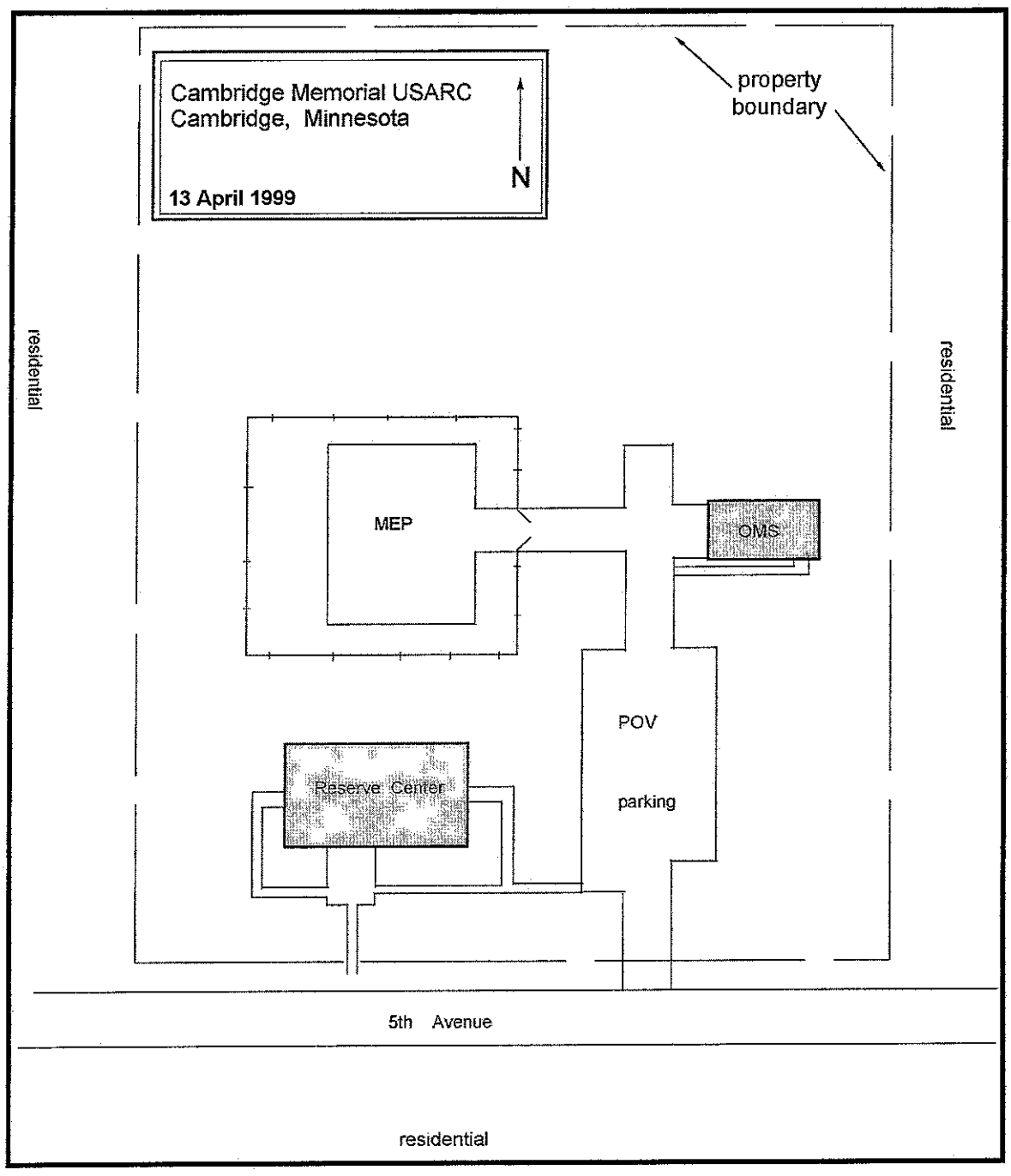


Figure 2. Site plan.

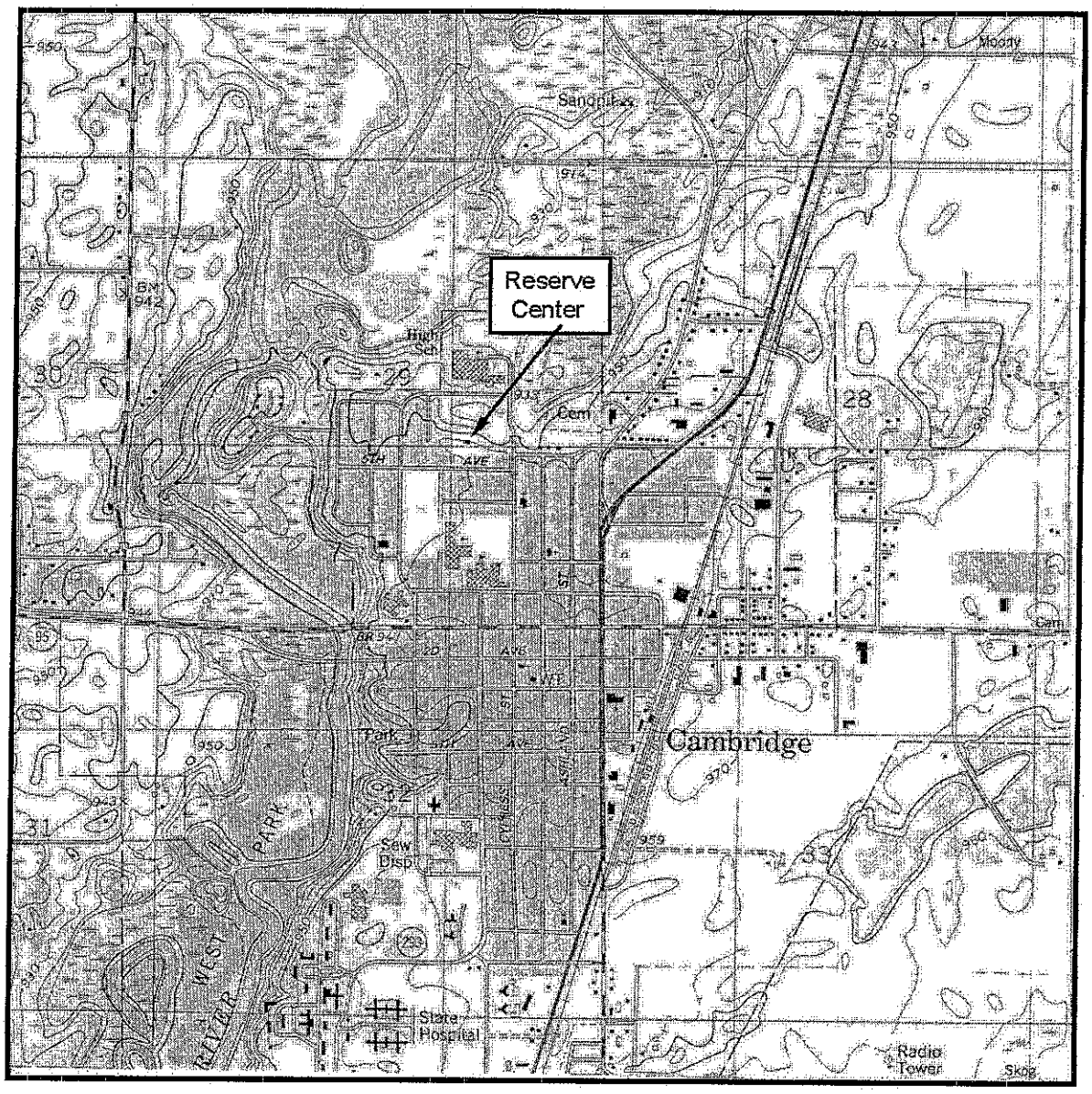


Figure 1. Location of Cambridge Memorial USARC: Cambridge, MN.

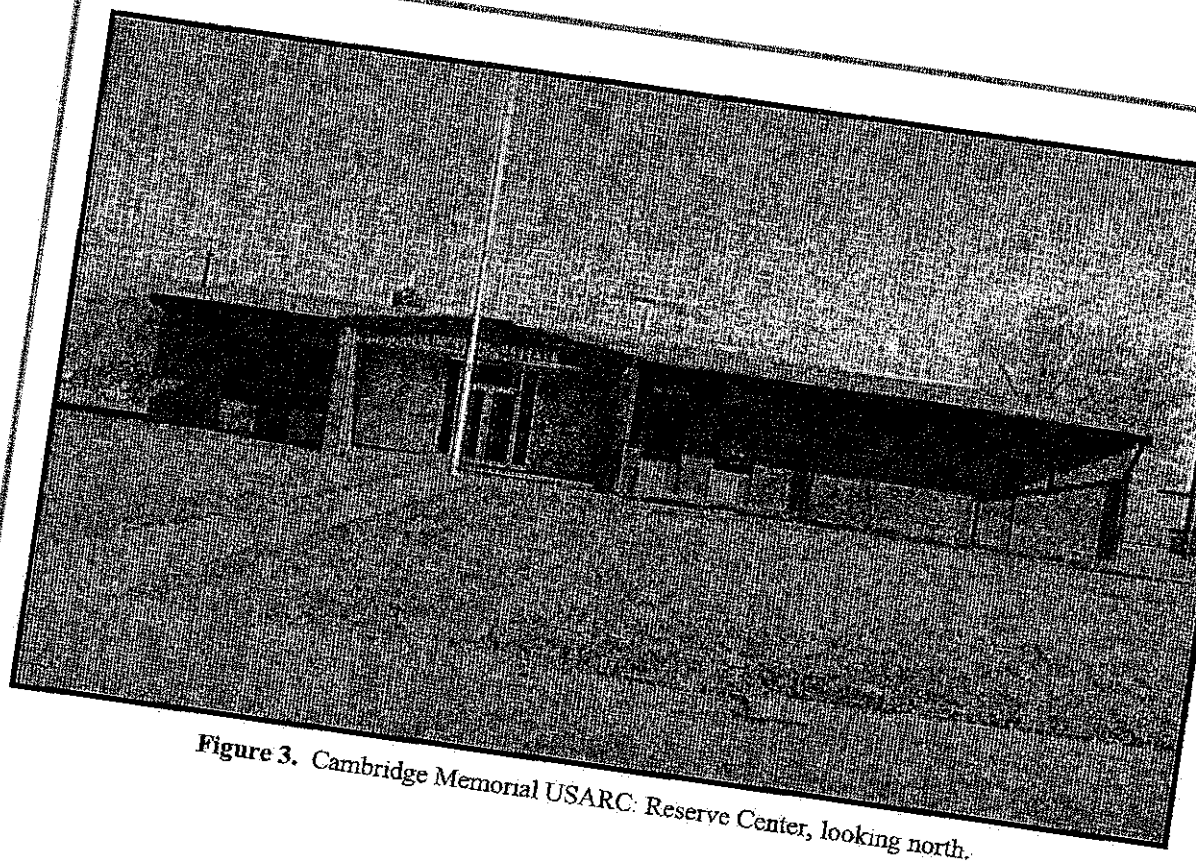


Figure 3. Cambridge Memorial USARC: Reserve Center, looking north.

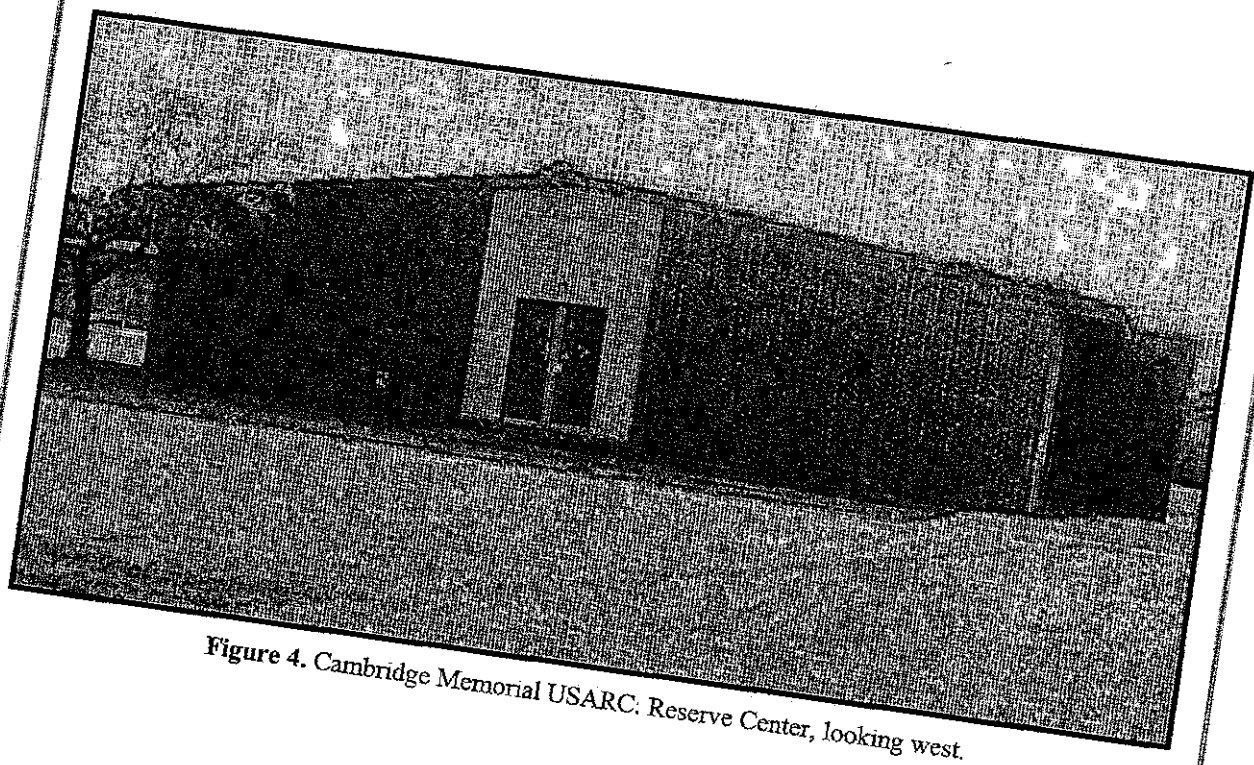


Figure 4. Cambridge Memorial USARC: Reserve Center, looking west.

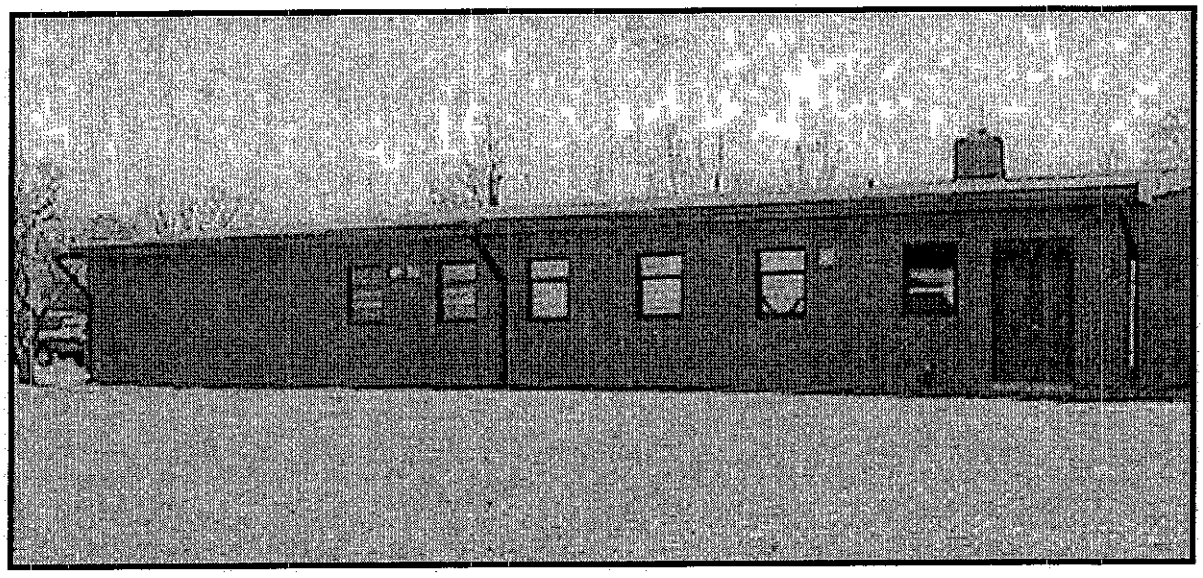


Figure 5. Cambridge Memorial USARC: Reserve Center, looking south.

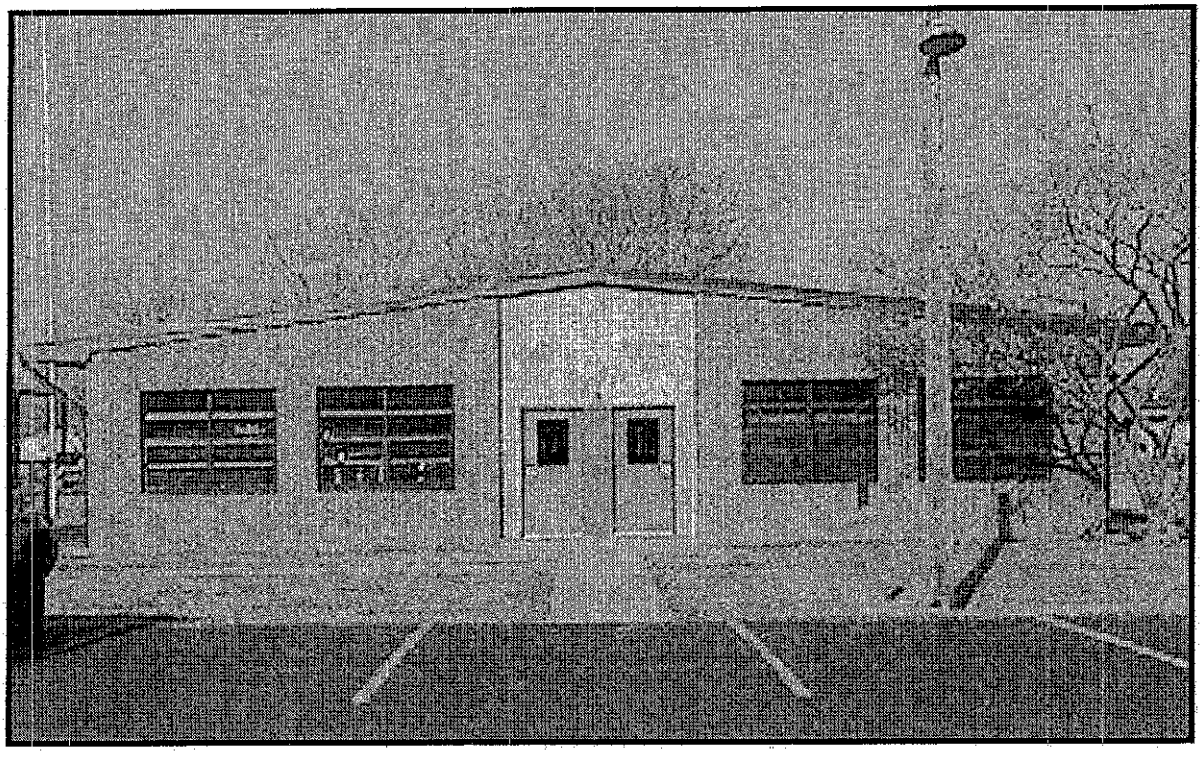


Figure 6. Cambridge Memorial USARC: Reserve Center, looking west.

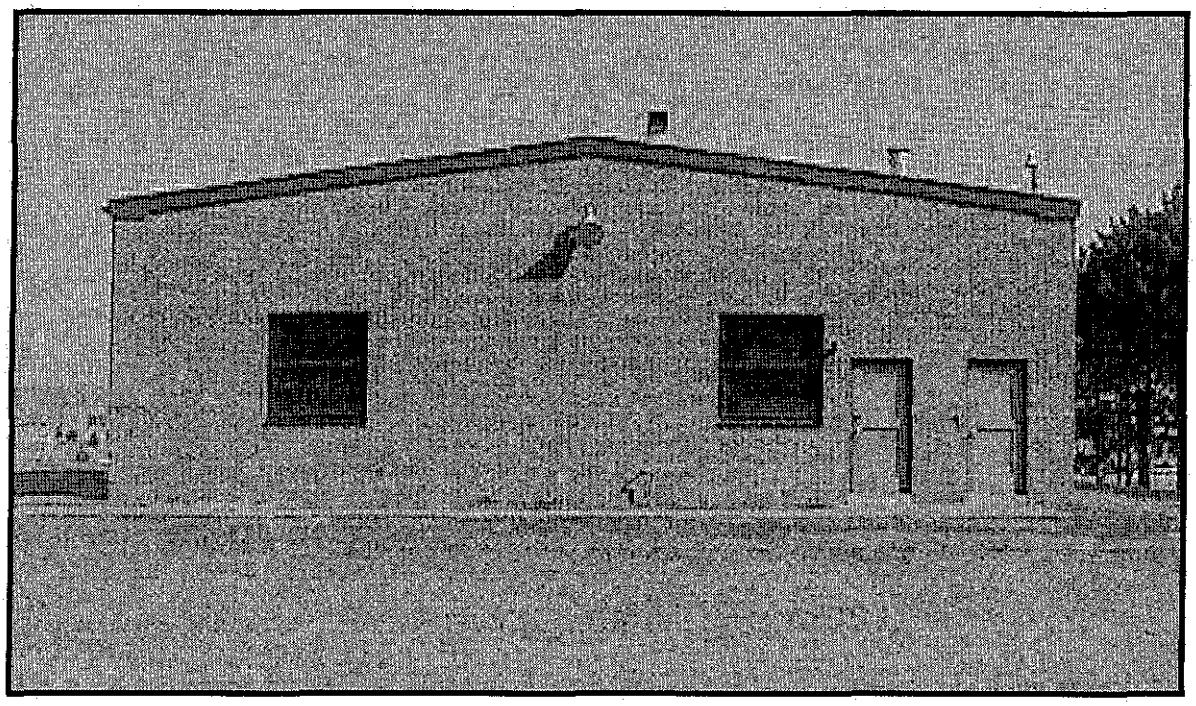


Figure 7. Cambridge Memorial USARC: Organizational Maintenance Shop, looking north.

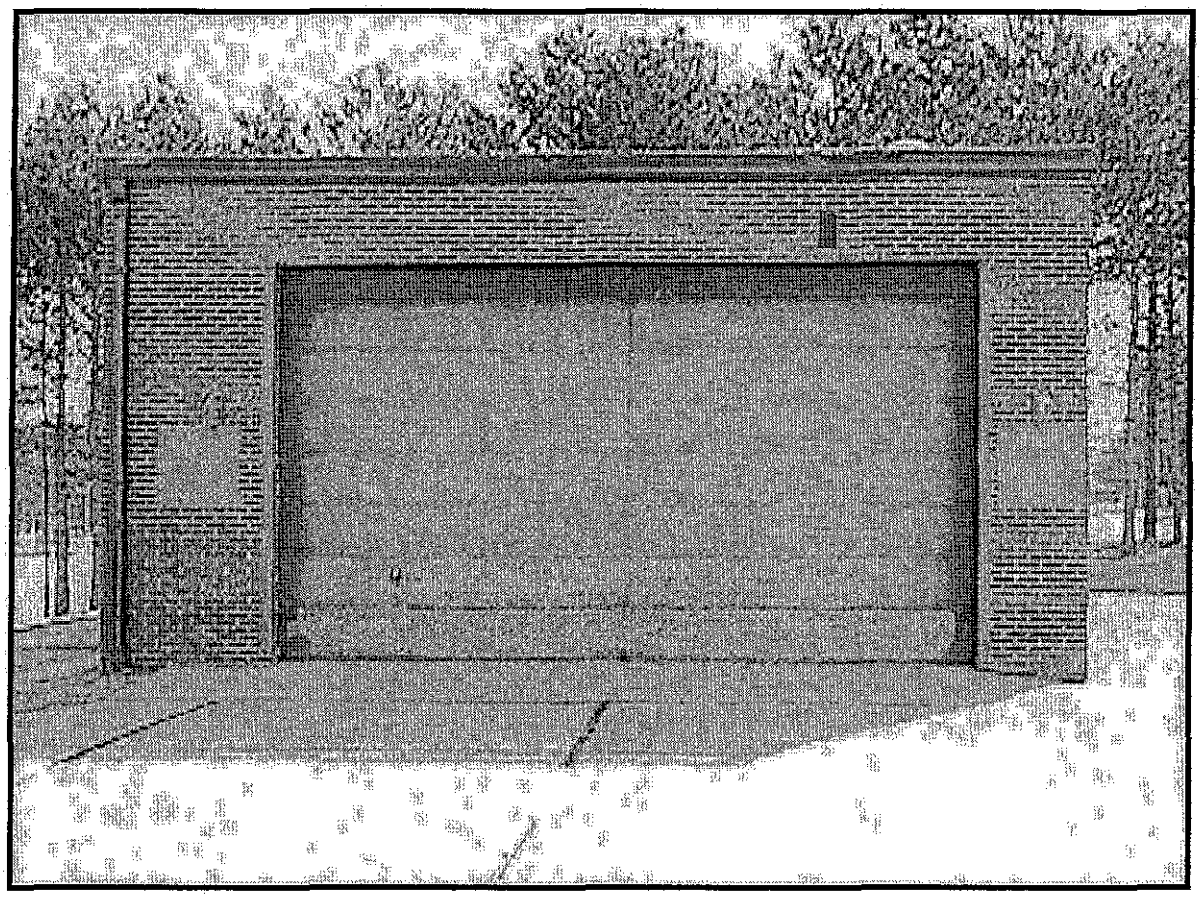


Figure 8. Cambridge Memorial USARC: Organizational Maintenance Shop, looking east.

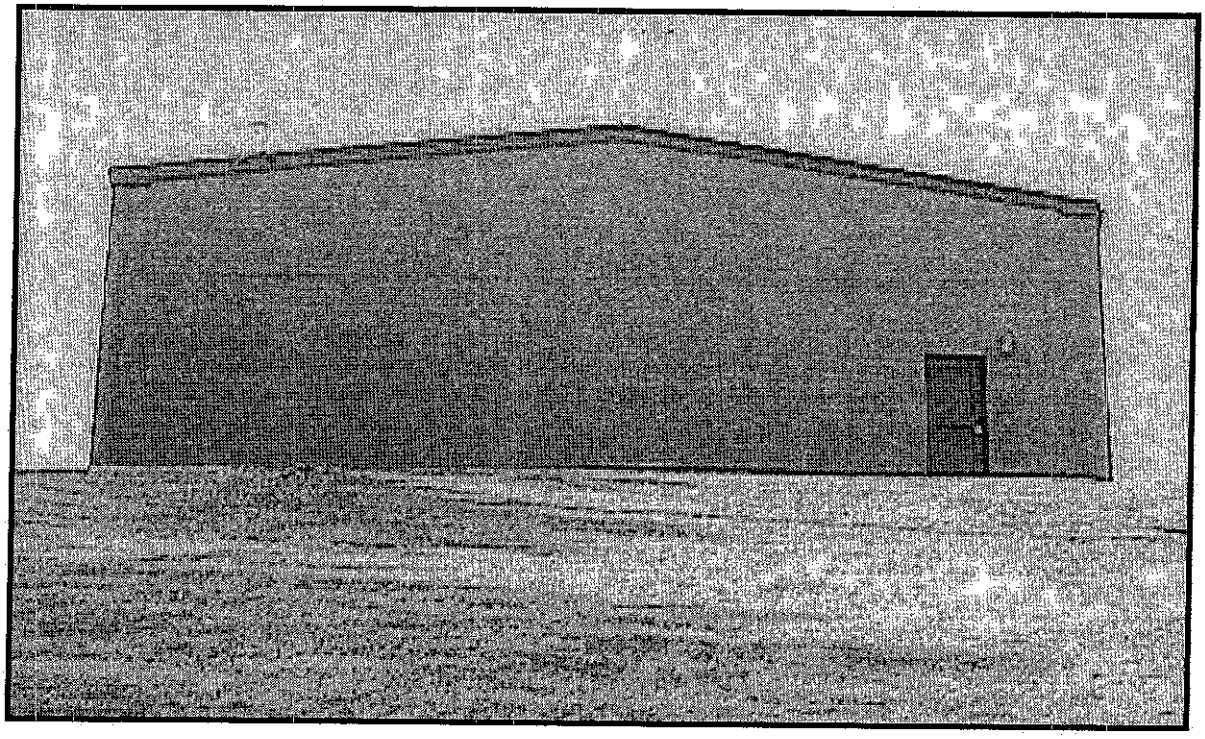


Figure 9. Cambridge Memorial USARC: Organizational Maintenance Shop, looking south.

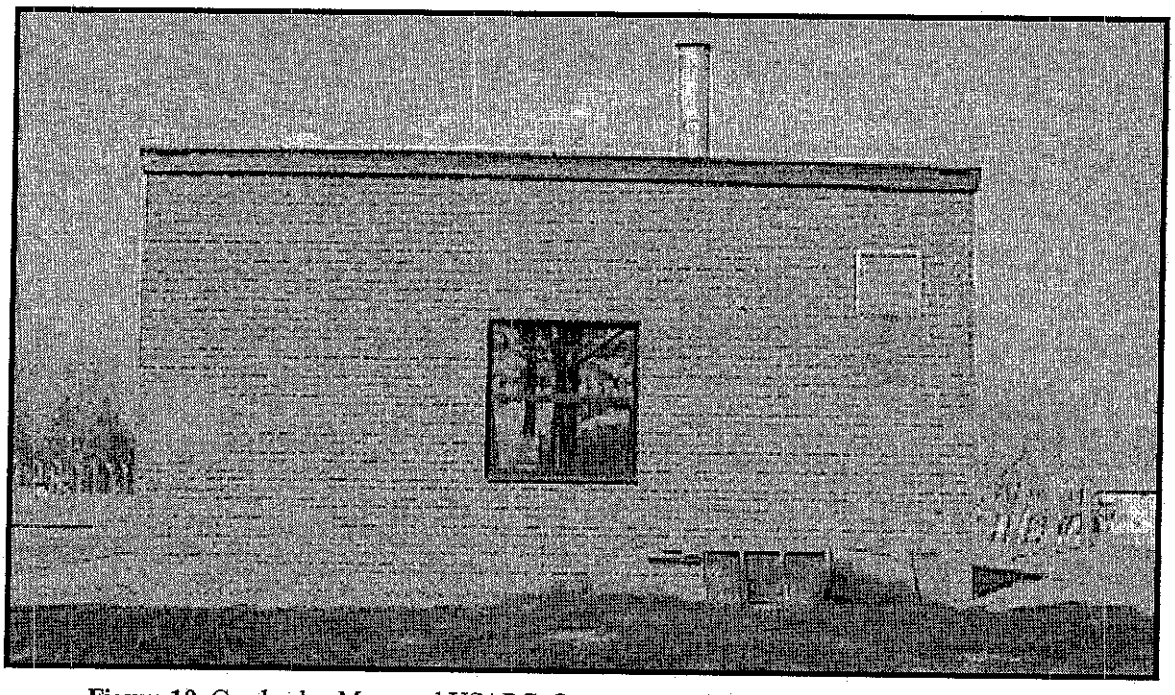


Figure 10. Cambridge Memorial USARC: Organizational Maintenance Shop, looking west.

CROSS CONNECTION/BACKFLOW PREVENTION PROGRAM

FOR

THE 88TH REGIONAL SUPPORT COMMAND FACILITIES IN MINNESOTA

Prepared by:

U.S. ARMY CORPS OF ENGINEERS
LOUISVILLE DISTRICT
Louisville, Kentucky

May 31, 2001

PROJECT SUMMARY

This study was undertaken at the request of the 88th Support Command. The purpose of the study was to survey twenty one (20) USARC sites, in the state of Minnesota, 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 applicable codes for each of the sites in the study were obtained and are located in the section titled "CODES AND REGULATIONS". This section includes the national, state and local regulations that apply. Each facility was inspected and the potential cross-connection violations were identified.

Diagrams for each facility are included in the section titled "PROJECT SUMMARY AND RECOMMENDATIONS", indicating the positions of the potential cross-connection locations requiring inspections and/or backflow prevention devices. Recommendations for the type of backflow prevention device that should be installed, at each specific location, to meet state and local regulations are located on the diagrams. A cost estimate for purchasing and installing each device is also included in this section.

A database is included, showing facility, facility id number, address, facility point of contact, city point of contact in charge of backflow compliance, the contact's phone number, the testable backflow preventer, type, model number, date of installation, date of last inspection, inspection frequency, and room for additional notes per site. The database is in the section titled "DATABASE OF BACKFLOW DEVICES AT EACH FACILITY" and is provided for use by the testing program manager.

INTRODUCTION

The purpose of this study is to establish a cross-connection/backflow prevention program for 21 military reserve centers in Minnesota. 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.

The facilities in the study are as follows:

Arden Hills USARC (MN001)	Arden Hills, Minnesota
Teerrance A. Peterson USARC (MN002)	Brainerd, Minnesota
New Buffalo USARC (MN005)	Buffalo, Minnesota
Cambridge Memorial USARC (MN006)	Cambridge, Minnesota
Duluth USARC (MN011)	Duluth, Minnesota
AMSA #25 (MN011)	Duluth, Minnesota
Gen. Beebe USARC (MN014)	Faribault, Minnesota
AMSA #111 (MN014)	Faribault, Minnesota
Erving L. Peterson Memorial USARC (MN015)	Fergus Falls, Minnesota
Mankato Memorial USARC (MN018)	Mankato, Minnesota
Paynesville USARC (MN024)	Paynesville, Minnesota
Koochiching Memorial USARC (MN032)	International Falls, Minnesota
AMSA #101 (MN034)	St. Joseph, Minnesota
Ft. Snelling USARC (MN036)	Ft. Snelling, Minnesota
Ft. Snelling USARC (MN036)	Ft. Snelling, Minnesota
Ft. Snelling USARC (MN036)	Ft. Snelling, Minnesota
AMSA #22 (MN036)	Ft. Snelling, Minnesota
Wabasha Memorial USARC (MN042)	Wabasha, Minnesota
Henry H. Sibley Memorial USARC (MN047)	Winthrop, Minnesota
Worthington Memorial USARC (MN048)	Worthington, Minnesota

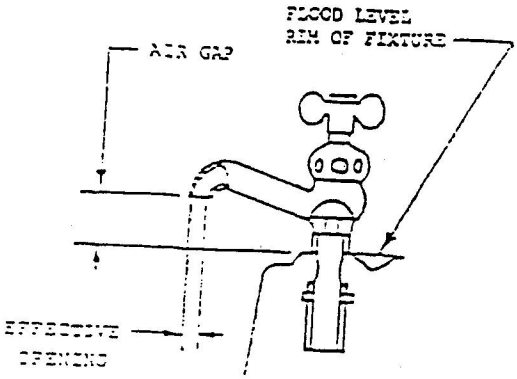
INSPECTION OF THE FACILITIES

A team was formed to go throughout the state and investigate each of the sites. The team was led by a design engineer knowledgeable of cross-connection and backflow prevention codes. The team included a CAD (Computer Aided Drafting) technician to assist in the necessary drafting on the sites surveyed.

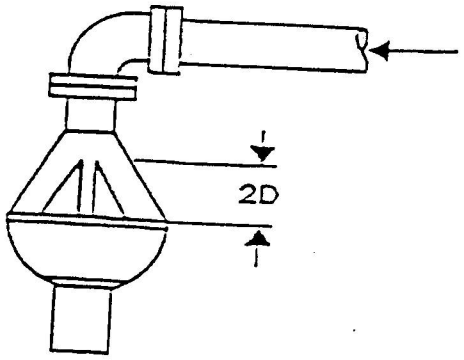
The team consisted of the following persons: Kevin Prather and James Martin, and Vien Rassovong, Mechanical Engineers.

The procedure the team 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. 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 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 noted also. Photographs were taken of the various fixtures and backflow situations.

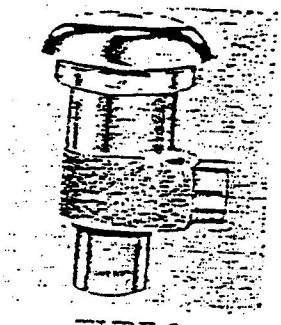


TYPE 1
Air Gap on a Faucet
ASSE #1021

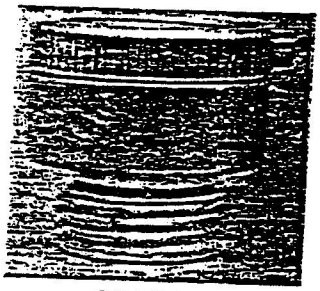


TYPE 1
Air Gap in a Pipe
ASSE #1021

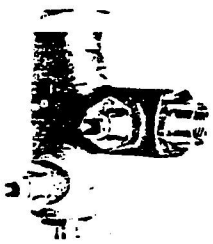
TYPE 2
Reduced Pressure Principle
Backflow Preventer
ASSE #1013



TYPE 3
Pipe Applied
Atmospheric Type
Vacuum Breaker
ASSE #1001

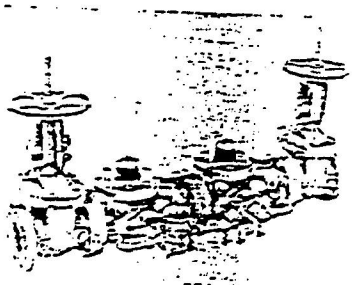


TYPE 4
Hose Connection
Vacuum Breaker
ASSE #1011

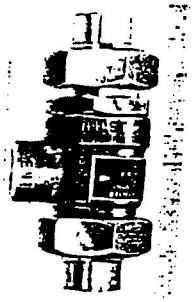


TYPE 5
Pressure Type
Vacuum
Breaker
ASSE #1020

TYPE 6
Double Check Backflow
Prevention Assembly
[illegible]



TYPE 7
Double Check Detector
Assembly Backflow
Preventer
ASSE #1048



TYPE 8
Inline
Backflow
Preventer
ASSE #1012

PROJECT SUMMARY AND RECOMMENDATIONS

The following sheets show the equipment recommended to be installed at each of the facilities. Also included in the spreadsheets is the cost of each piece of new equipment. Diagrams of each of the facilities are included. These show the location of each existing backflow prevention device and the location of where a new device is required or recommended.

It is recommended that the existing backflow prevention devices, and the new ones installed under this contract, be inspected and tested annually.

The contract should be written to require the contractor to install the backflow preventers required at the various sites.

Location: Cambridge Memorial USARC, Cambridge, Minnesota	Type Needed	Quantity	Cost/ Item*	Model No.
Hose Bibbs Inside the Building	ASSE 1011	1	$25	Watts Series 8
Wall Hydrants Around the Building	ASSE 1011	2	$25	Watts Series 8
Hose Bibbs Inside the Building (OMS)	ASSE 1011	2	$25	Watts Series 8
Water Heater Threaded Drain	ASSE 1011	1	$25	Watts Series 8

*Cost includes installation, but does not include contractor overhead and profit.

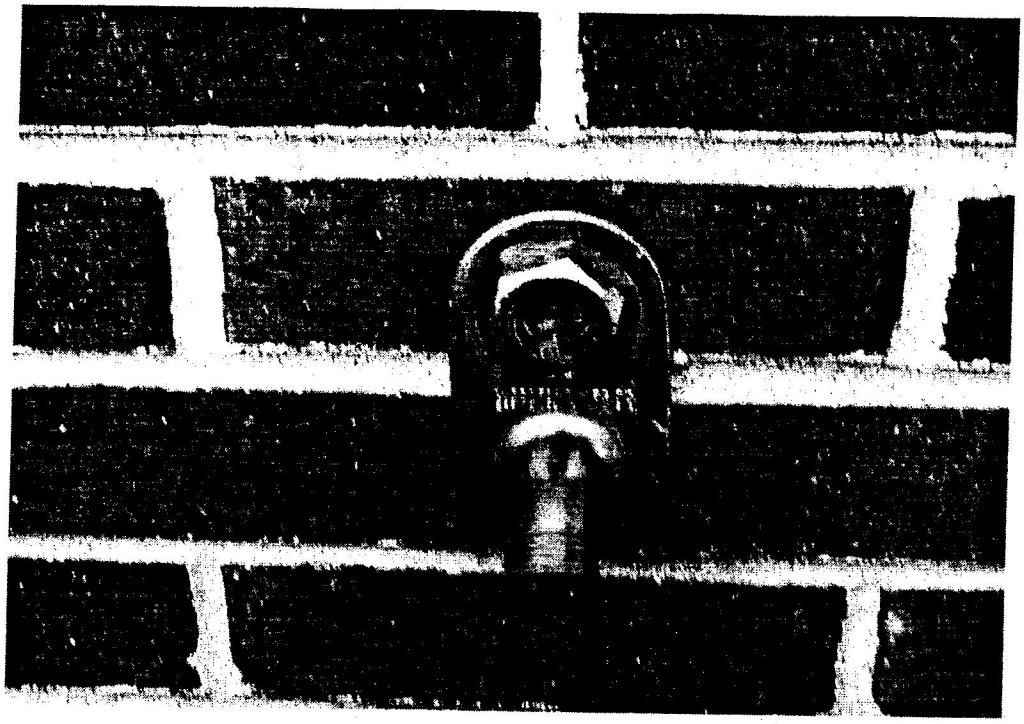


Photo 1. Wall Hydrant Requires Atmospheric Vacuum Breaker (ASSE Type 1011). Typical of 3 (One on Garage).

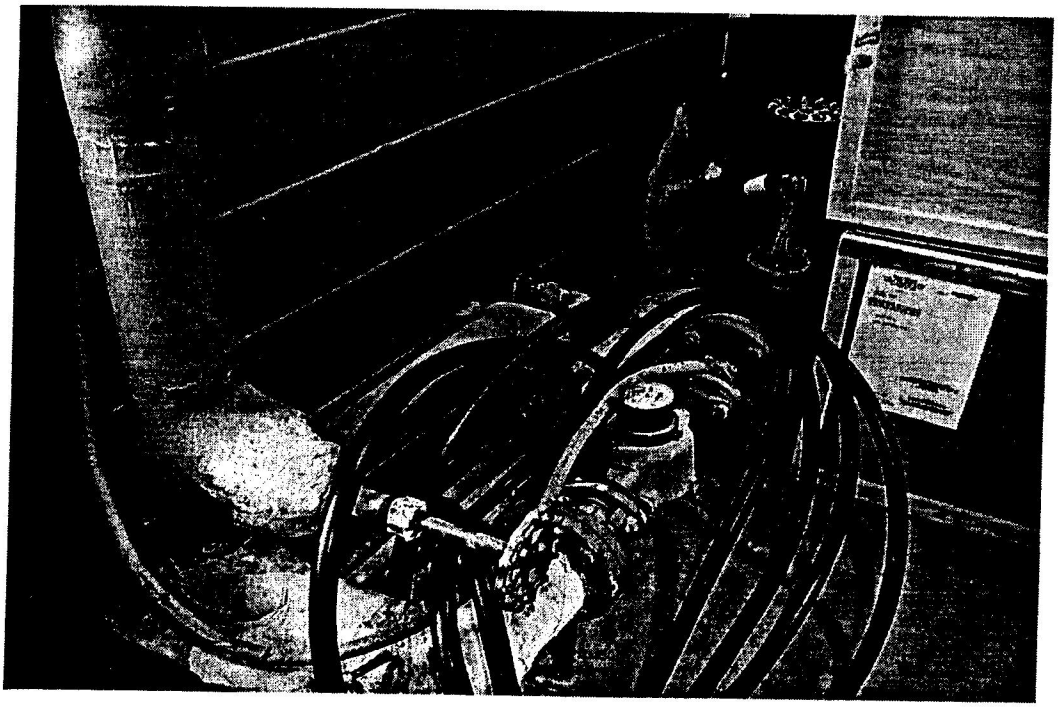


Photo 2. 2" Water Service and Meter Assembly (1"). No Further Backflow Protection Required. Hose Bibb on Water Service Requires Atmospheric Vacuum Breaker (ASSE Type 1011).

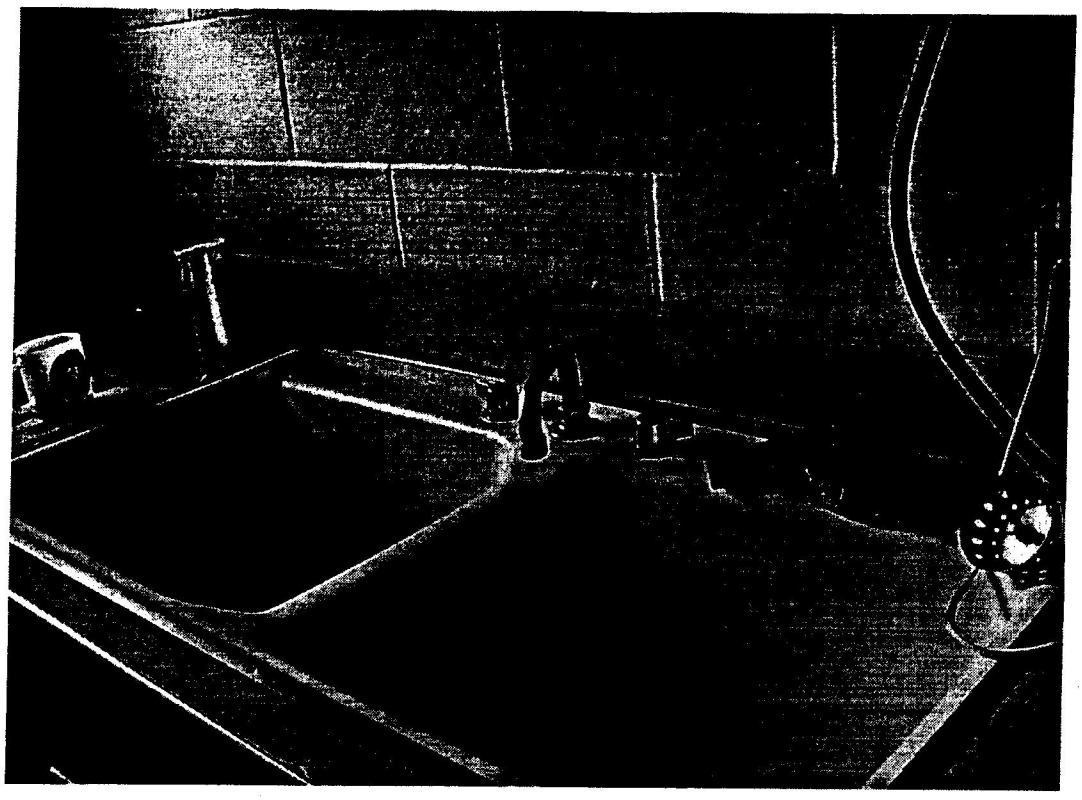
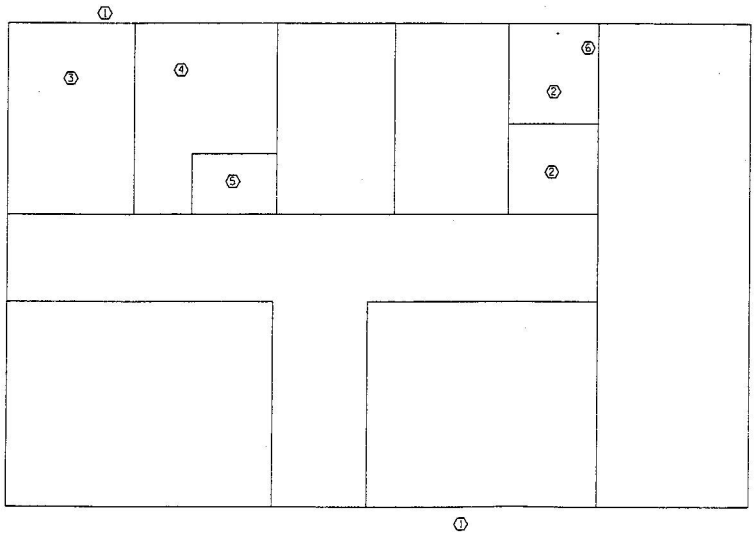


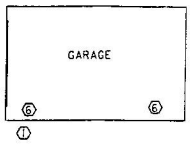
Photo 5. Kitchen Faucet (Unthreaded) Acceptable by Design. No Further Backflow Protection Required.\

Sheetmn06

Field1	Field3	Field5	Field7	Field9	Field10	Fie
Department of the Army						
U.S. Army Engineer District, Louisville		Backflow Prevention Device Study				
Corps of Engineers		on 21 Army Reserve Facilities				
P.O. Box 59		Various Locations - Minnesota				
Louisville, Kentucky 40201-0059				Date:30 May 2001		
Facility Building: USARC						
Facility: Cambridge Memorial USARC		Water Provider: City of Cambridge			Local Reg. Agcy: Isanti Co. Bldg. Insp.	
Facility ID#MN006		Local Contact:			Local Contact: Steve Thorp	
Building Point of Contact: Dennis Valentyn		Telephone Number: (763)689-3211			Telephone Number: (763)689-3211	
Address: 540 5th Ave NW		Address: 555 18th Ave SW			Address: 555 18th Ave SW	
Cambridge, MN 55008		Cambridge, MN 55008			Cambridge, MN 55008	
	Unit Served Number 1		Unit Served Number 2			Unit Served
Unit:						
Type:						
Model Number:						
Date of Installation:						
Date of Last Inspection:						
Inspection Frequency:						
Rebuild/Clean:						
Inspector:						
	Unit Served Number 4		Unit Served Number 5			Unit Served I
Unit:						
Type:						
Model Number:						
Date of Installation:						
Date of Last Inspection:						
Inspection Frequency:						
Rebuild/Clean:						
Inspector:						
	Unit Served Number 7		Unit Served Number 8			Unit Served I
Unit:						
Type:						
Model Number:						
Date of Installation:						
Date of Last Inspection:						
Inspection Frequency:						
Rebuild/Clean:						
Inspector:						
Additional Regulations:						
Additional Notes:	No Testable Devices are	Required to be installed here.				

1. WALL HYDRANT REQUIRES ATMOSPHERIC VACUUM BREAKER (ASSE TYPE 1011).
2. RESTROOM FIXTURES, FLUSH VALVES AND FAUCETS ARE SATISFACTORY BY DESIGN. NO FURTHER BACKFLOW PROTECTION REQUIRED.
3. MECHANICAL ROOM - SEE SHEET MN0602.
4. KITCHEN - FIXTURES ARE SATISFACTORY BY DESIGN. NO FURTHER BACKFLOW PROTECTION IS REQUIRED.
5. JANITOR'S SINK WITH ATMOSPHERIC VACUUM BREAKER (ASSE TYPE 1011) REQUIRES NO FURTHER BACKFLOW PROTECTION.
6. HOSE BIBB INSIDE BUILDING REQUIRES ATMOSPHERIC VACUUM BREAKER (ASSE TYPE 1011).





FLOOR PLAN
NO SCALE

US Army Corps of Engineers Louisville

Designed by KEVIN PRATHER
Drawn by KEVIN PRATHER
Checked by
Drawing scale: 1/4" = 1'-0"
Date:

CAMBRIDGE MEMORIAL USARC CAMBRIDGE, MINNESOTA

BACKFLOW PREVENT ION DEVICE SURVEY FOR ARMY RESIDENTIAL SUPPORT FACILITIES IN MINNESOTA

BLDG FLOOR PLAN

Sheet reference number: MN0601

Sheet ___ of

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DATE: 21-May-01 07:44

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D C B A

① WALL HYDRANT REQUIRES ATMOSPHERIC VACUUM BREAKER (ASSE TYPE 1011).

② RESTROOM FIXTURES, FLUSH VALVES AND FAUCETS ARE SATISFACTORY BY DESIGN. NO FURTHER BACKFLOW PROTECTION REQUIRED.

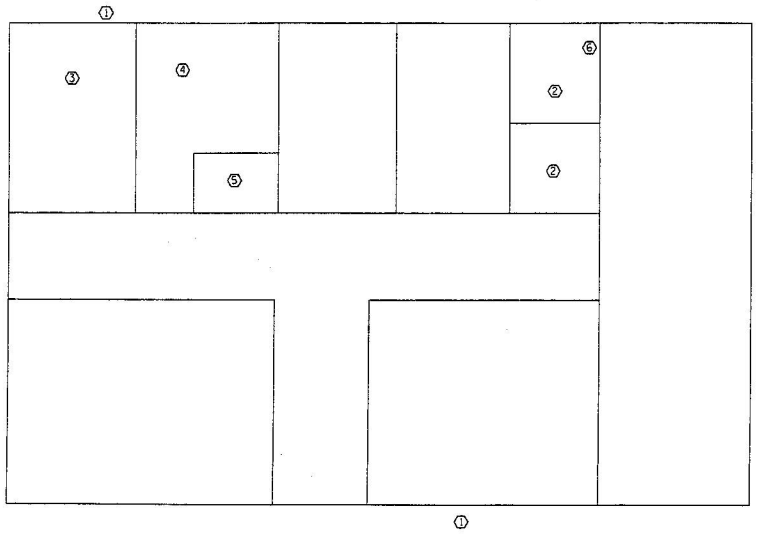
③ MECHANICAL ROOM - SEE SHEET MN0602.

④ KITCHEN - FIXTURES ARE SATISFACTORY BY DESIGN. NO FURTHER BACKFLOW PROTECTION IS REQUIRED.

⑤ JANITOR'S SINK WITH ATMOSPHERIC VACUUM BREAKER (ASSE TYPE 1011) REQUIRES NO FURTHER BACKFLOW PROTECTION.

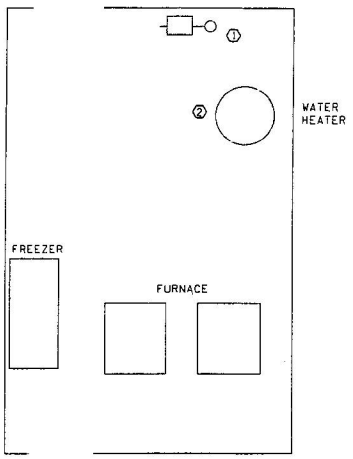
⑥ HOSE BIBB INSIDE BUILDING REQUIRES ATMOSPHERIC VACUUM BREAKER (ASSE TYPE 1011).

GARAGE



FLOOR PLAN
NO SCALE

5 4 3 2



① WATER SERVICE ENTRANCE (2") WITH METER (NO BACKFLOW PROTECTION). NO FURTHER BACKFLOW PROTECTION REQUIRED. HOSE BIBB ON SERVICE PIPE REQUIRES ATMOSPHERIC VACUUM BREAKER (ASSE TYPE 1011).

② THREADED WATER HEATER DRAIN. IT IS RECOMMENDED TO INSTALL ATMOSPHERIC VACUUM BREAKER (ASSE TYPE 1011).

RESERVE MECHANICAL ROOM PLAN

NO SCALE

US Army Corps of Engineers Louisville

Designed by KEVIN PRATHER
Drawn by KEVIN PRATHER
Scale: NONE

CAMBRIDGE MEMORIAL USARC CAMBRIDGE, MINNESOTA

BACKFLOW PREVENTION DEVICE SURVEY FOR ARMY RESERVE FACILITIES IN MINNESOTA

ENLARGED BOILER ROOM PLANS

Sheet reference number: MN0602

Sheet ___ of

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DATE: 21-May-01 07:50

ENVIRONMENTAL SURVEY REPORT
ASBESTOS, PCB, LEAD BASED PAINT AND RADON SURVEY
88TH Regional Support Command
CAMBRIDGE, MINNESOTA (MN006)

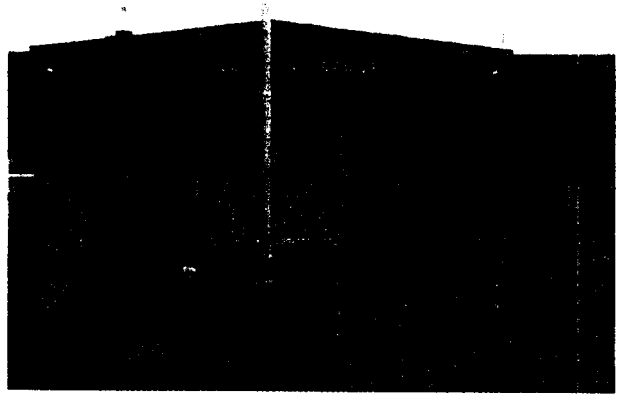
PREPARED FOR:

88th Regional Support Command
506 Roeder Circle
Ft. Snelling, MN 55111

PREPARED BY:

ITI OF SOUTH FLORIDA, INC.
100 2nd Ave. South, Suite 200-S
St. Petersburg, FL 33701
727 898 0802 727 581 0764 (fax) itisf@aol.com

Adecco Technical Task Order DAY A000003029



Gil Bakshi, MA
President
5 May 2002

TABLE OF CONTENTS

APPENDICES

Signature of Asbestos Inspector. Narciso Martinez

Narciso Martinez 5 May 2002

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 540 5th Ave. NW, Cambridge, Minnesota (MN006). 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 building has concrete block and bricks on the exterior walls. The roof is pitched asphalt and gravel. The building is 4,316 sq. ft. and is utilized for administrative purposes. The building was originally constructed in the 1960's.

Maintenance Shop Building

This building has concrete block and bricks on the exterior walls. The roof is pitched asphalt and gravel. The building is 1,313 sq. ft. and is utilized for maintenance purposes. The building was originally constructed in the 1960's.

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
- Were 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 it's 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 the review of previous asbestos surveys in 1991, 1992 & 1995 and ITI's survey of the building, ITI has concluded the following material contain asbestos:

ADMINISTRATION BUILDING

CONFIRMED ASBESTOS

- Thermal System Insulation Elbows (PI-1)
  - Good Condition
- Roofing Flashing (RF-1)
  - Good Condition
- 2' x 2' Ceiling Tiles (CT-1)
  - Good Condition
- Duct Work Insulation, TSI – (TI-1)
  - Good Condition

PRESUMED ASBESTOS

- 12" x 12" white tile and mastic (VFT-1)
  - Good Condition
- Fire Doors
  - Good Condition
- Electrical Wiring
  - Good Condition
- Vibration Damper
  - Good Condition
- Curtain
  - Good Condition
- Ceiling Material (CM-1)
  - Good Condition

MAINTENANCE SHOP BUILDING

PRESUMED ASBESTOS

- Roofing Materials (RM-2)
  - Good Condition
- Fire Doors
  - Good Condition
- Electrical Wiring
  - Good Condition

PCB'S

ADMINISTRATION BUILDING

Based on ITI's survey of the building, ITI has concluded that the following types of transformers are located in the building:

- Light Ballasts – Rapid Start 254-701 ("No PCB's" on label)
- Light Ballasts – GE, 6G1020 ("No PCB's" on label)
- Light Ballasts – Advance R2S40-1TP ("No PCB's" on label)
- Light Ballasts – Universal 446 GR TCP ("No PCB's" on label)
- Transformer: Owner: East Central Utility, 612-689-1171, Serial Number 86JF687008, ("No PCB's" on label)

LEAD BASED PAINTS

Based on ITI's survey for LBP, ITI has concluded that the following building products contain LBP:

ADMINISTRATION BUILDING

- Beige Door Jambs on Metal Substrate (Exterior)
  - Good Condition
- Beige Door Jamb on Metal Substrate (Room 8 – See Drawing) – Assume all beige door jambs on metal substrate contain LBP
  - Good Condition
- Ceramic Tile Wall (Latrines – Rm. 11 and Rm. 12 – See Drawing)
  - Good Condition

MAINTENANCE SHOP BUILDING

- Door Jamb, Casing and Door - Metal Substrate – Gray (Interior Rm. 2) – All gray metal doors and associated components are assumed to contain LBP.
  - Good Condition

RADON

ADMINISTRATION BUILDING

Based on the review of a previous radon survey in 1989 & 2000 and ITI's review of the records, ITI has concluded all radon results are below 4 piCu/l for this location.

4.0 PREVIOUS INSPECTIONS

Below are the records for previous inspections conducted at this site.

4.1 ASBESTOS

- In 1994, asbestos sampling was conducted. See Appendix A for previous data. Section 5.0 of this report identifies the areas that were found positive for asbestos containing materials.

4.2 PCB'S

- NO PREVIOUS INSPECTIONS

4.3 LEAD BASED PAINT

- NO PREVIOUS INSPECTIONS.

4.4 RADON

- In 1989 and 2000, radon sampling (alpha tracks) was conducted. See Appendix D for previous data. Section 8.0 of this report identifies the areas that were found to contain radon gas.

5.0 ASBESTOS CONTAINING MATERIALS

During this survey conducted on 13 November 2001, ITI accredited building inspector under Minnesota Department of Health Asbestos Abatement Regulation, Part 4620.3330, Mr. Narciso Martinez 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, Mr. Martinez 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

An example of sample numbering scheme was as follows:

MN006*1

MN006	=	Facility
*1	=	Sample Number

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 uses 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.

Sample Number	Description	Asbestos Content
MN006*1-1	Gray and Tan Pipe Insulation	None
MN006*2-2	Gray and Tan Pipe Insulation	None
MN006*3-3	Gray and Tan Pipe Insulation	None
MN006*4-4	Gray and Tan Pipe Insulation	None

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

ASBESTOS

Based on the review of previous asbestos surveys in 1991, 1992 & 1995 and ITI's survey of the building, ITI has concluded the following material contain asbestos:

ADMINISTRATION BUILDING

CONFIRMED ASBESTOS

- Thermal System Insulation (TSI) elbows – PI-1

  According to previous reports, this material was found to contain asbestos. This material is located in the furnace room area. There are approximately 28 elbows. This material is friable and was in good condition at the time of the survey. The pipe runs appear to be fiberglass and were confirmed to be non asbestos (only the pipe run).
- Roofing Flashing

  This material is non friable and was in good condition at the time of the survey.
- Ceiling Tiles (2' x 2')
  - According to previous reports, this material was found to contain asbestos. This material is located in the Hallway, Commanders Office, Orderly Room, Training Room, Commo Room, Arms Room and Classrooms and totals approximately 2,840 sq. ft. This material is friable and was in good condition at the time of the survey.
- Duct Work Insulation – Thermal System Insulation - TI-1

  According to previous reports, this material was found to contain asbestos. This material is located in the furnace room area. There are approximately 250 sq. ft. of duct insulation. This material is friable and was in good condition at the time of the survey.

PRESUMED ASBESTOS

- 12" x 12" white and mastic (VFT-1)

  This material is located in the Kitchen, Locker Room, Classrooms, Training Room, Orderly Room, Commanders Room and Hallways and totals approx. 3,190 sq. ft. This material is non friable and was in good condition at the time of the survey.
- Fire Doors
  - Good Condition
- Electrical Wiring
  - Good Condition
- Vibration Damper in Furnace Room (Non Friable – Good Condition)
  - Good Condition
- Curtain – Non Friable – Good Condition (Located in the Classrooms)

MAINTENANCE SHOP BUILDING

PRESUMED ASBESTOS

- Roofing Materials

  This material is non friable and was in good condition at the time of the survey.

- Fire Doors
    - Good Condition
- Electrical Wiring
    - Good Condition

5.3 NON ASBESTOS CONTAINING MATERIAL

ADMINISTRATION BUILDING

- Roofing Materials, not including the flashing The flashing is confirmed positive asbestos containing material.

5.4 CONCLUSIONS AND RECOMMENDATIONS

Based on the findings above, ITI recommends the following:

- Observations for detected asbestos was 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.

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.

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.

ADMINISTRATION BUILDING

Based on ITI's survey of the building, ITI has concluded that the following types of transformers are located in the building:

- Light Ballasts – Rapid Start 254-701 ("No PCB's" on label)
- Light Ballasts – GE, 6G1020 ("No PCB's" on label)
- Light Ballasts – Advance R2S40-1TP ("No PCB's" on label)
- Light Ballasts – Universal 446 GR TCP ("No PCB's" on label)
- Transformer: Owner: East Central Utility, 612-689-1171, Serial Number 86JF687008, ("No PCB's" on label)

6.2 CONCLUSIONS AND RECOMMENDATIONS

Based on the findings above, ITI recommends the following:

- Observations for PCB's was based on visible and accessible materials, therefore, PCB's may be present in other ballasts not observed.
- An imminent PCB hazard was not present at the facility during the site visit.

Based on the labels found on the transformers, ITI recommends the following:

- Without the ("NO PCB's) statement the ballast is presumed to contain PCBs and must be handled accordingly. Additional testing may be required before the ballast is disturbed or disposed. At a minimum, requirements of 40 CFR 761 must be followed should sampling be required.

7.0 LEAD BASED PAINT

During this survey, ITI inspector, Mr. Narciso Martinez performed a walk-through of the subject building on 13 November 2001 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

- Beige Door Jambs on Metal Substrate (Exterior)
  - Good Condition
- Beige Door Jamb on Metal Substrate (Room 8 – See Drawing) – Assume all beige door jambs on metal substrate contain LBP
  - Good Condition
- Ceramic Tile Wall (Latrines – Rm. 11 and Rm. 12 – See Drawing)
  - Good Condition

MAINTENANCE SHOP BUILDING

- Door Jamb, Casing and Door - Metal Substrate – Gray (Interior Rm. 2) – All gray metal doors and associated components are assumed to contain LBP
  - Good Condition

RADON

ADMINISTRATION BUILDING

Based on the review of a previous radon survey in 1989 & 2000 and ITI's review of the records, ITI has concluded all radon results are below 4 piCu/l for this location.

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.

7.3 CONCLUSIONS AND RECOMMENDATIONS

Based on the findings above, ITI recommends the following:

- Observations for LBP's was 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.

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. The 88th RSC has conducted radon surveys at this site in 1989 and 2000 which included placement, retrieval, and analysis of alpha track canisters, which detect alpha particles emitted from radon.

Laboratory results indicate that all radon canisters contain concentrations of less than 4.0 pCi/i. In accordance with AR 200-1 and based on laboratory analysis of the radon canisters provided by the 88th RSC, ITI recommends no further action for the Site.

SEE APPENDIX D FOR RADON RESULTS.
There were no results over 4 piCu/l for this location.

8.1 CONCLUSIONS AND RECOMMENDATIONS

Based on the findings above, ITI recommends the following:

- An imminent Radon hazard was not present at the facility during the site visit.
- According to the 88th RSC's survey data as provided in appendix D, there were no results over 4 piCu/l for this location.

9.0 ACTION SUMMARY

ASBESTOS

Based on the review of previous asbestos surveys in 1991, 1992 & 1995 and ITI's survey of the building, ITI has concluded the following material contain asbestos:

ADMINISTRATION BUILDING

CONFIRMED ASBESTOS

- Thermal System Insulation (TSI) elbows
  - Good Condition
- Roofing Flashing
  - Good Condition
- Ceiling Tiles (2' x 2')
  - Good Condition
- Duct Work Insulation (TSI)
  - Good Condition
- Elbows (TSI)
  - Good Condition

PRESUMED ASBESTOS

- 12" x 12" white tile and mastic
  - Good Condition
- Fire Doors
  - Good Condition

- Electrical Wiring
  - Good Condition
- Vibration Damper
  - Good Condition
- Curtain
  - Good Condition

MAINTENANCE SHOP BUILDING

PRESUMED ASBESTOS

- Roofing Materials
  - Good Condition
- Fire Doors
  - Good Condition
- Electrical Wiring
  - Good Condition

Based on the findings above, ITI recommends the following:

- Observations for detected asbestos was 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

PCB'S

ADMINISTRATION BUILDING

Based on ITI's survey of the building, ITI has concluded that the following types of transformers are located in the building:

- Light Ballasts – Rapid Start 254-701 ("No PCB's" on label)
- Light Ballasts – GE, 6G1020 ("No PCB's" on label)
- Light Ballasts – Advance R2S40-1TP ("No PCB's" on label)
- Light Ballasts – Universal 446 GR TCP ("No PCB's" on label)

- Transformer: Owner: East Central Utility, 612-689-1171, Serial Number 86JF687008, ("No PCB's" on label)

Based on the findings above, ITI recommends the following:

- Observations for PCB's was based on visible and accessible materials, therefore, PCB's may be present in other ballasts not observed.
- An imminent PCB hazard was not 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.

LEAD BASED PAINTS

Based on ITI's survey for LBP, ITI has concluded that the following building products contain LBP:

ADMINISTRATION BUILDING

- Beige Door Jambs on Metal Substrate (Exterior)
  - Good Condition
- Beige Door Jamb on Metal Substrate (Room 8 – See Drawing) – Assume all beige door jambs on metal substrate contain LBP
  - Good Condition
- Ceramic Tile Wall (Latrines – Rm. 11 and Rm. 12 – See Drawing)
  - Good Condition

MAINTENANCE SHOP BUILDING

- Door Jamb, Casing and Door - Metal Substrate – Gray (Interior Rm. 2) – All gray metal doors and associated components are assumed to contain LBP
  - Good Condition

Based on the findings above, ITI recommends the following:

- Observations for LBP's was 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

ADMINISTRATION BUILDING

Based on the review of a previous radon survey in 1989 & 2000 and ITI's review of the records, ITI has concluded all radon results are below 4 piCu/l for this location.

Based on the findings above, ITI recommends the following:

- An imminent Radon hazard was not present at the facility during the site visit.
- According to the 88th RSC's survey data as provided in appendix D, there were no results over 4 piCu/l for this location.

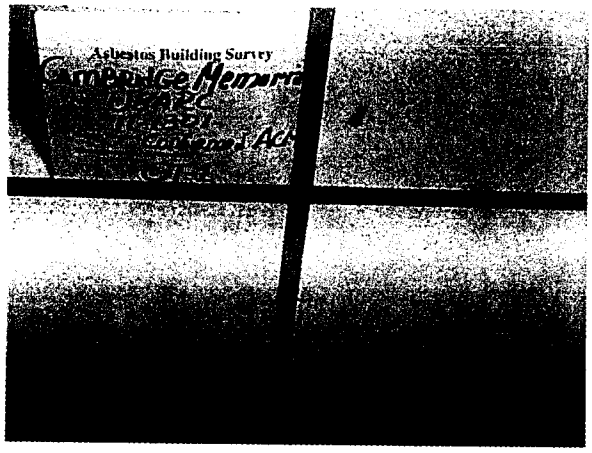
10.0 WARRANTY

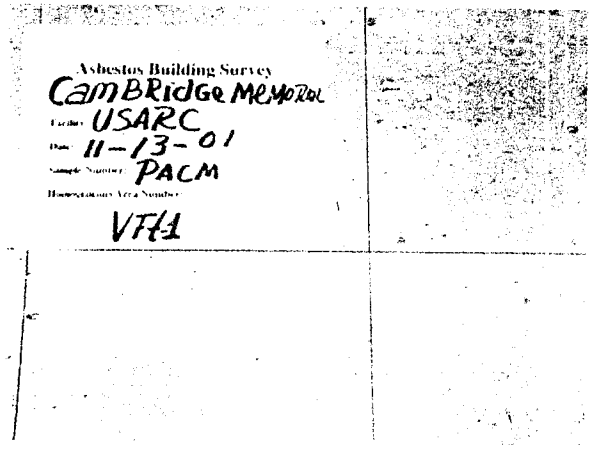
The field and laboratory results reported herein (only if samples are collected and/or analyzed) are considered sufficient in detail and scope to determine the presence of accessible and/or exposed suspect asbestos, PCB's, LBPs or radon gas in the facility. ITI warrants that the findings contained herein 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.

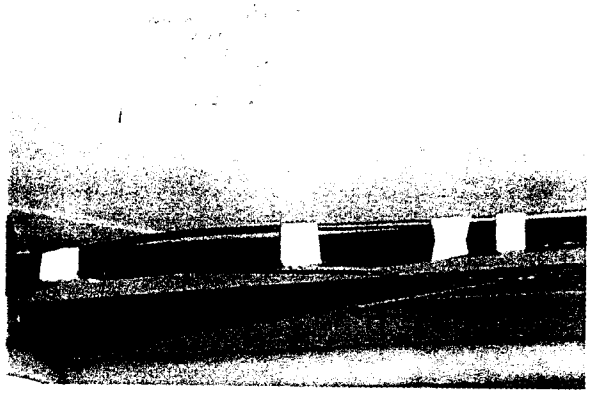
The survey and analytical methods have been used to provide the client with information regarding the presence of accessible and/or exposed suspect asbestos, lead, PCB's or radon in the facility at the time of the inspection. Test results are valid only for material tested. There is a distinct possibility 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.

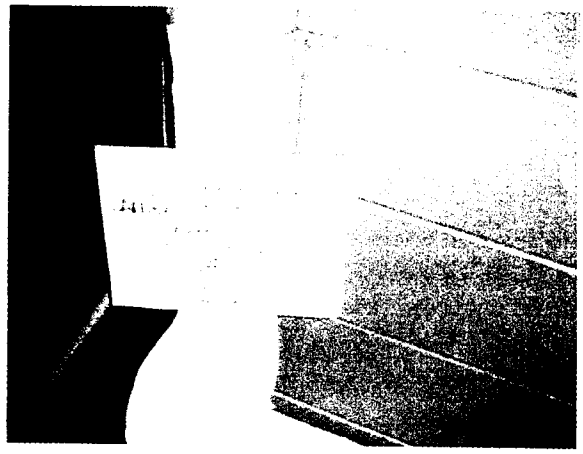
This report is not intended to be an asbestos, lead based paint, PCB or Radon risk assessment, management plan or project design document and should not be used for the purpose of obtaining quotes.

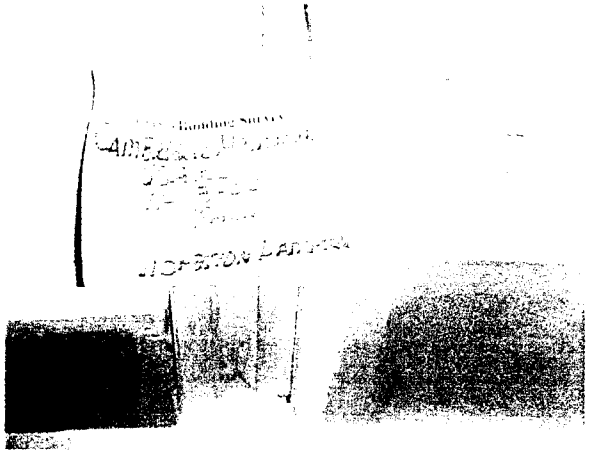
11.0 SITE PHOTOGRAPHS

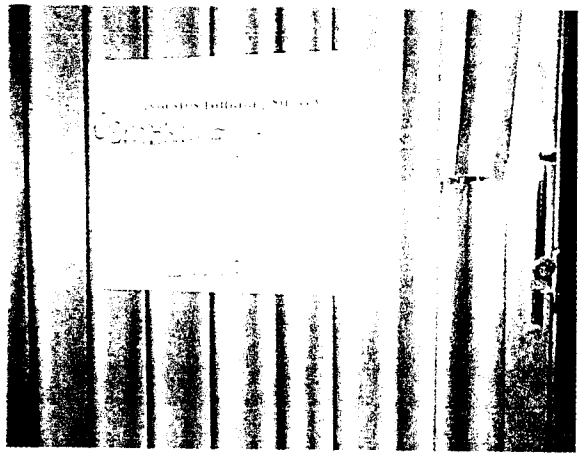


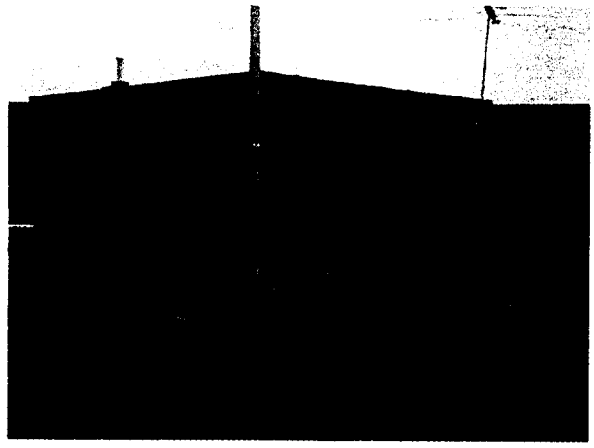




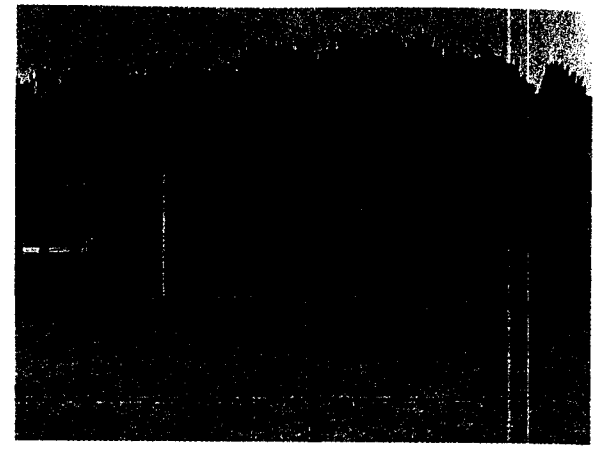








Administration Building



Maintenance Shop Building

APPENDIX A

LAB RESULTS

ITI SAMPLE NUMBER	SAMPLE DESCRIPTION	DATE OF TEST	RESULTS
MN006*1-1	GRAY AND TAN PIPE INSUL	23 JAN. 02	NEGATIVE
MN006*2-2	GRAY AND TAN PIPE INSUL	23 JAN. 02	NEGATIVE
MN006*3-3	GRAY PIPE INSULATION	23 JAN. 02	NEGATIVE
MN006*4-4	GRAY AND TAN PIPE INSUL	23 JAN. 02	NEGATIVE

METHOD: POLARIZED LIGHT MICROSCOPY, EPA METHOD 600/R-93-116

A. E. S. L.
Environmental
LABORATORY

1707 E. Weber Dr., Suite 6 Tempe, Arizona 85281
Phone:(480) 966-3714 Fax: (480) 394-0188
Toll Free: (877) 854-1767

BULK ASBESTOS ANALYSIS SUMMARY REPORT

CLIENT NAME: I.T.I.
514 First Avenue SW
Largo, Florida 33770

DATE OF RECEIPT: January 22, 2002
SAMPLE CONDITION: Good
DATE ANALYZED: January 23, 2002

A.E.S.L. LABORATORY #: 02-A053

PROJECT: Cambridge MN006

A.E.S.L. LAB SAMPLE ID #	CLIENT SAMPLE ID #	SAMPLE DESCRIPTION & COLOR	TEST RESULTS Pos. / Neg.	TEST RESULTS % & Type	OTHER MATERIALS
A053-1	MN006*1 - 1	Gray and Tan Pipe Insulation	Negative	---------	20% Cellulose 20% Mineral Wool 60% Non-Fibrous
A053-2	MN006*2 - 2	Gray and Tan Pipe Insulation	Negative	---------	20% Cellulose 20% Mineral Wool 60% Non-Fibrous
A053-3	MN006*3 - 3	Gray Pipe Insulation	Negative	---------	20% Cellulose 20% Mineral Wool 60% Non-Fibrous
A053-4	MN006*4 - 4	Gray and Tan Pipe Insulation	Negative	---------	20% Cellulose 20% Mineral Wool 60% Non-Fibrous

Legend: NAAPCR - Not analyzed as per customer request

Comment:

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

C:\DATA\AESL\BULK\02-a000/02-A053.DOC

Turnaround Time: ☐ RUSH ☐ Same Day ☐ 24 Hour ☒ 48 Hour

☒ Stop @ First Positive
☐ Read All Samples

BULK ASBESTOS SAMPLE CHAIN OF CUSTODY

LABORATORY # 02-A053

Page 1 of 1

Client Name: FTI Contact: Gil Bakshi Phone (480) 966 3714 727-502-9223 Fax: (480) 394-0188

Address: 1707 East Weber Drive, Suite G City: Tempe State: Arizona Zip: 85281

PROJECT: Cambridge PROJECT ID: MA004

SAMPLES RECVD (#): 4 DATE RECVD: _____ CONDITION: _____ SAMPLES ACCEPTED (Y , N): _____ IF NO, WHY? _____

*** SAMPLES TO BE RETURNED TO CLIENT AFTER 30 DAYS OR DISPOSED OF BY A I S.E. (D R) _____ ***
(IF NOT SPECIFIED WILL AUTOMATICALLY BE DISPOSED OF AFTER 30 DAYS)

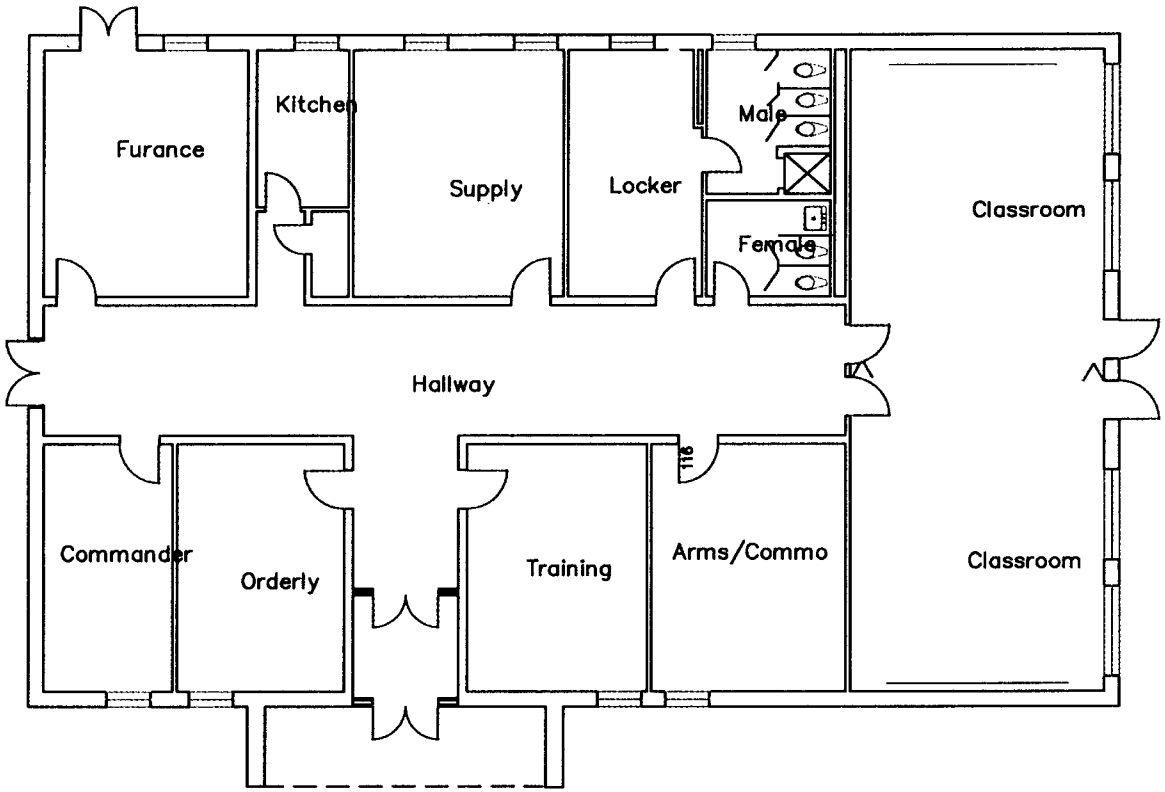
Lab Sample #	Client ID #	Sample Location	Sample Description	Lab Sample #	Client ID #	Sample Location	Sample Description
1	MA004#1	PI-	Pipe Insul.				
2	MA004#2	PI-	" "				
3	MA004#3	PI-	" "				
4	MA004#4	PI-	" "				

RELINQUISHED BY: Narciso Martinez Time: DATE:

RECEIVED BY: Rosemarie Lucero Time: DATE: 1/22/02

ACM OR PACM	LOCATION
CM-1	FURANCE ROOM, KITCHEN, SUPPLY ROOM, LOCKER ROOM MALE AND FEMALE LATRINES
CURTAIN	INBETWEEN CLASSROOMS
CT-1	HALLWAY, COMMANDERS ROOM, ORDERLY ROOM, TRAINING ROOM COMMO ROOM, ARMS ROOM AND CLASSROOMS
VFT-1	KITCHEN, LOCKER ROOM, CLASSROOMS, TRAINING ROOM, ORDERLY ROOM COMMANDERS ROOM, HALLWAYS
PI-1, TI-1, DAMPER	FURANCE ROOM

ALL LOCATED IN THE ADMINISTRATION BUILDING



See Chart for locations

ITI of South Florida **Environmental Services** **Drawn: GB**	**Cambridge USARC (MN006)** **540 FIFTH AVENUE N.W.** **CAMBRIDGE, MN**	**FIGURE** **12 NOV 2001**

FIELD NOTES

ASBESTOS SURVEY REPORT - FORM 1

BUILDING IDENTIFICATION

County: _____ Facility: USARC
Agency: USAR
Building Name: Cambridge USARC
Building Number: MN006
Address and/or Geographic Location: 540 5th Ave NW Cambridge, MN. 55008
Asbestos Contact Person:
Telephone Number: (612) 689-1343
Agency Contact: USAR. Fax No.: _____

SURVEY IDENTIFICATION

Date of Survey: 11/13/01 Date of Report: _____
Contract No.:
Consultant's Name: JARISO I. MARTINEZ
Name of Firm: ITI Lic. No.: AE8506
Address:
Telephone Number: (727) 586-7500 FAX No.: _____

BUILDING INFORMATION

Year of Initial Construction: 1960 Additional Construction Dates: Not known
Renovation Dates: Unknown
Type of Occupancy: Administration (list all) Typical Number of Occupants: 1

Building Documents/Drawings Available/Consulted

Document Types	YES	No	Available for Review Document Storage Location
Construction Plans		✓	
Construction Specifications		✓	
Renovation Plans		✓	
Renovation Specifications		✓	
Other		✓	
Asbestos Plans		✓	
Asbestos Specifications		✓	
Asbestos Survey/Report	✓		Steven Briggs See Attachment.

Number of stories (floors): 1 Area per floor: 4,316 SF (1st)
Penthouse Area: N/A
Number of Elevators: NONE Number of Stops: NONE

STRUCTURAL DATA

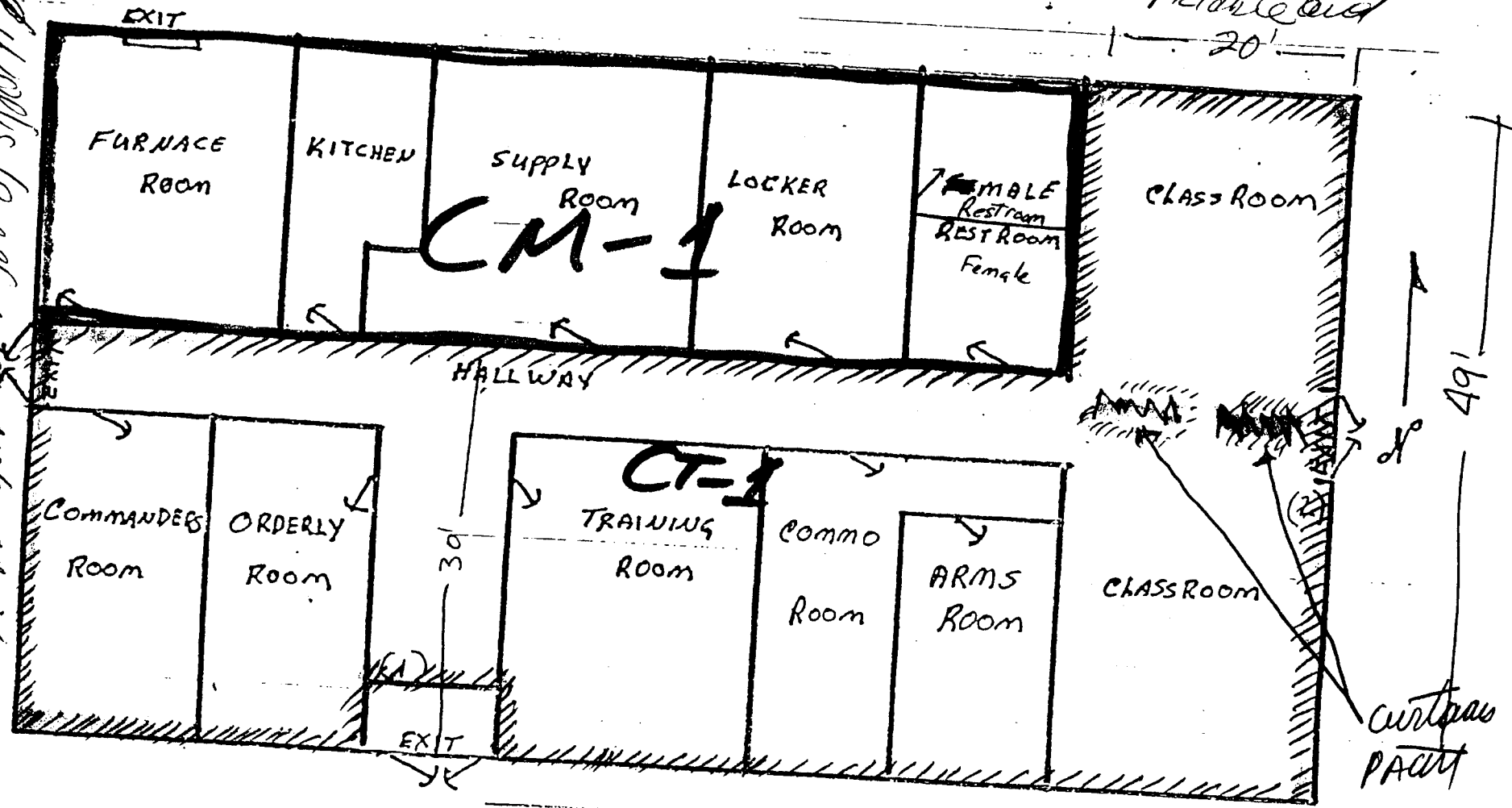
Vertical Support: Concrete Blocks
Roof: Pitched Asphalt Gravel pelleted Roof Horizontal: Metal Deck
Floors: Concrete Slab
Exterior Walls: Layered Bricks Ceilings: Ceiling tiles/CM-1 Partition Walls: Concrete Blocks

MECHANICAL DATA

Equipment Name	Yes	No	Type	Location
HVAC System	✓			
Air Handlers	✓		RUUD	Mech. Room
Radiators		✓	RUUD	Mech. Room
Boilers	✓			
Chillers		✓		Mech. Room
Hot Water Heater	✓			
Special Equipment			CRane	Mechanical Room

There is approximately 2,840 SF of ceiling tiles CT-1 within this facility. This material contains Amosite Asbestos ranging in the 4 percent and is in good condition. Friable and

Ceiling Walls Floor



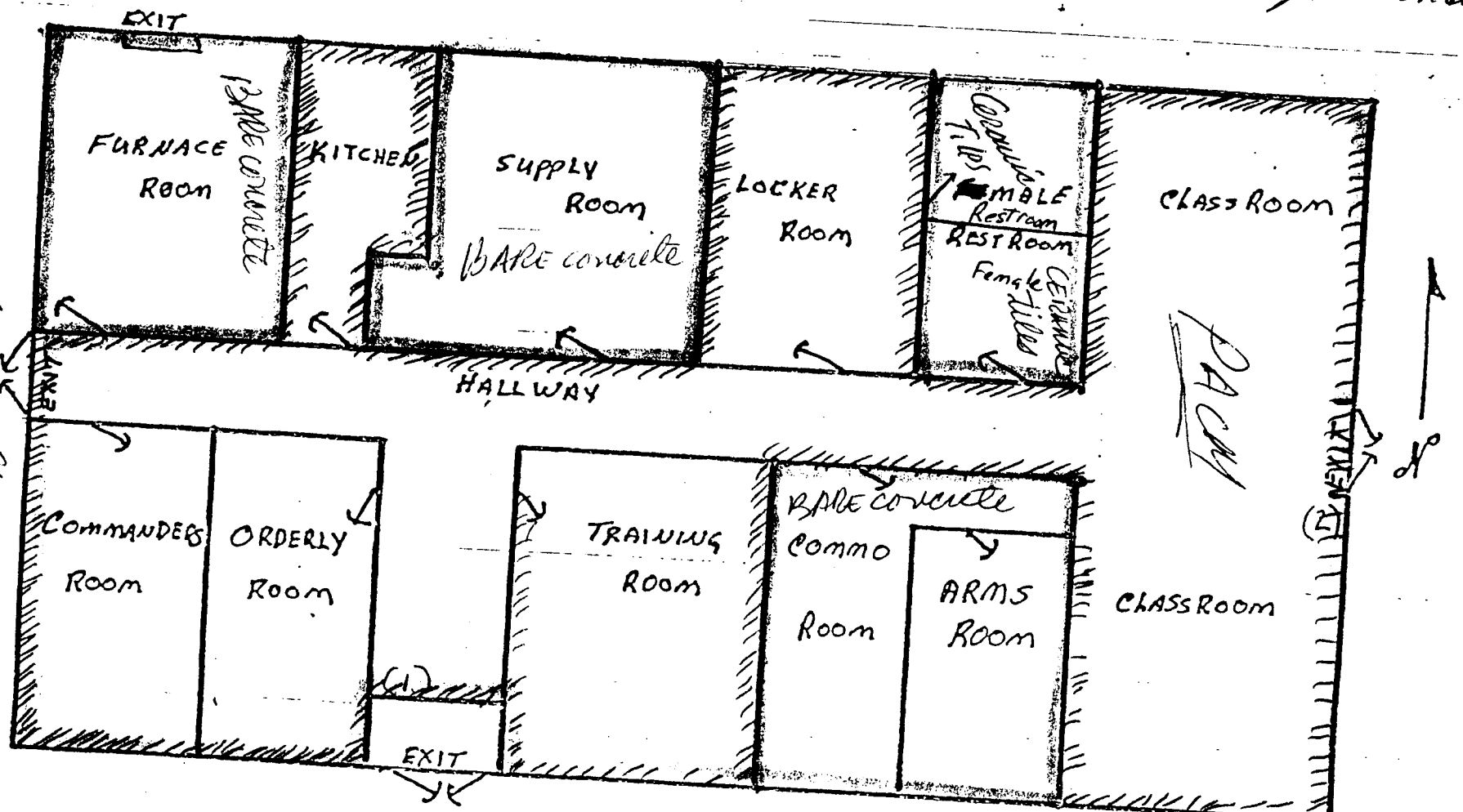
CT-1 is an Asbestos containing Material

81

All walls are of concrete blocks

Notes: All ceiling areas are of Ceiling tiles CT-1 except in the Furnace room, kitchen, supply room, the exterior of the restrooms. The interior of the restrooms are of ceramic tiles. See attached

There is approximately 3,190 SF of Vinyl Floor tile VFT-1 within the facility. This material is a presumed ASBESTOS-containing material (PACM). This material is non friable and in good condition.

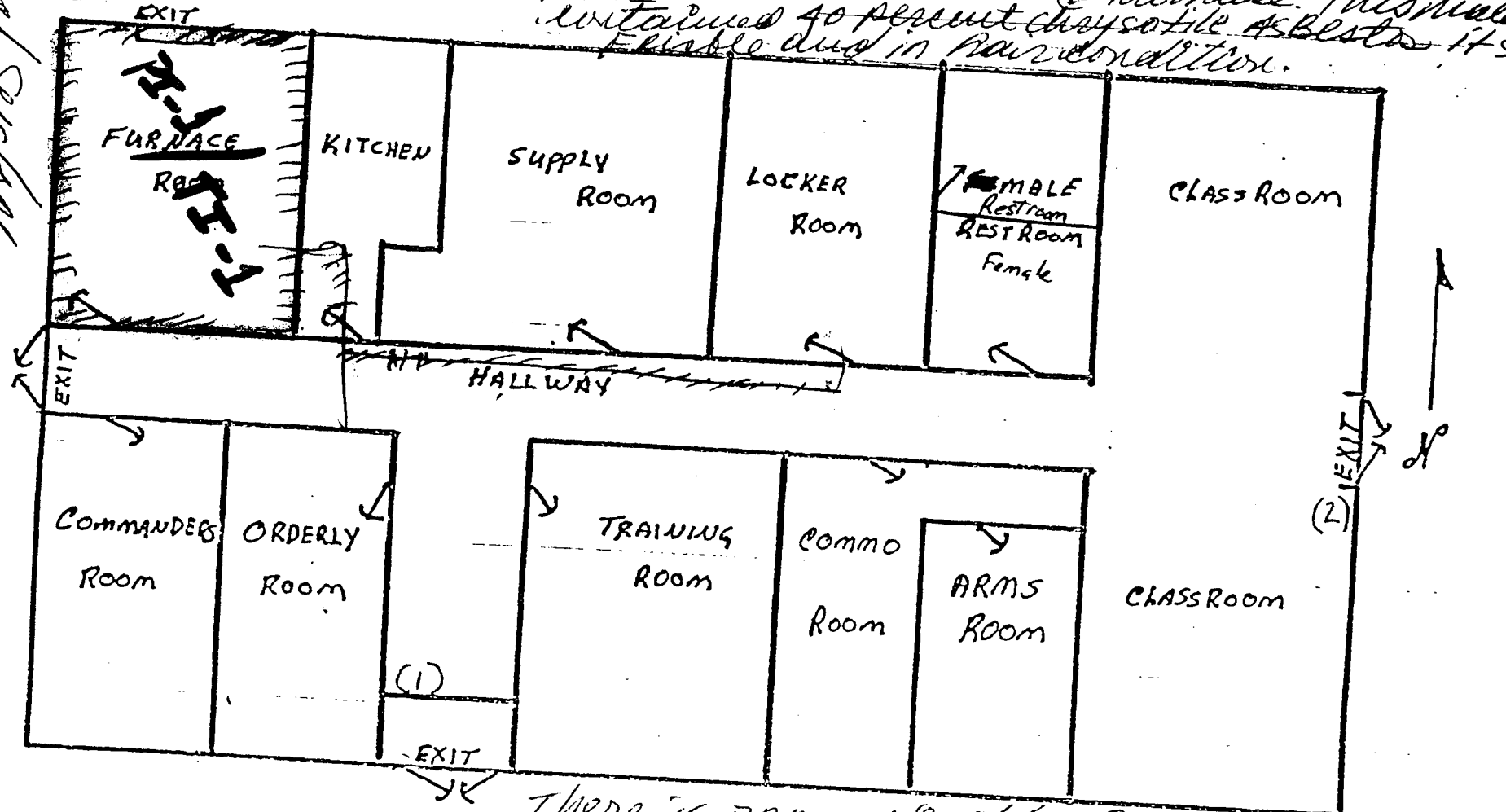


Floor Key Note: All floor tile is a presumed asbestos containing material (PACM) except where noted.

Heating System

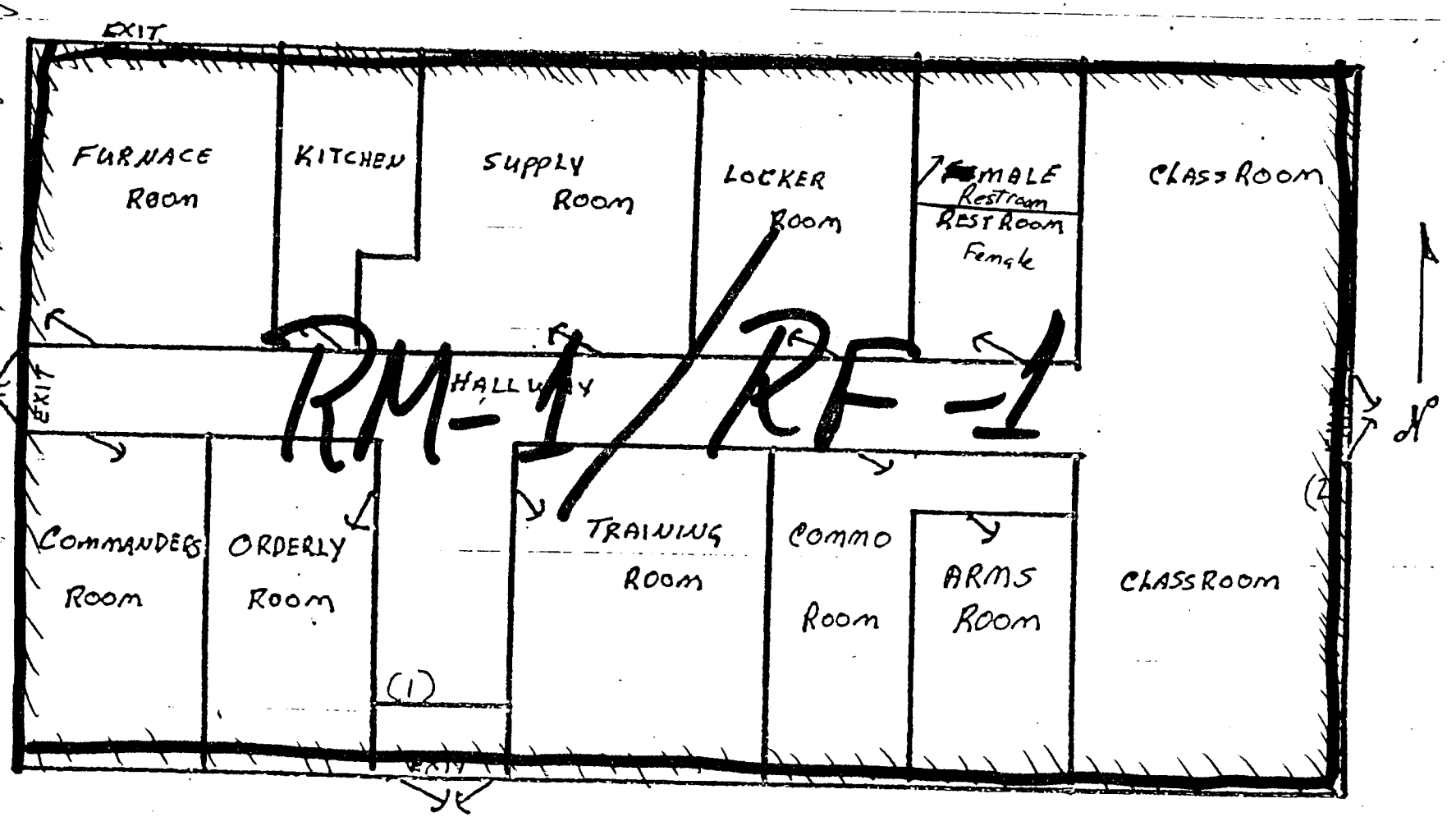
PI-1 = elbows - This material contained Amosite & Chrysotile Asbestos ranging ~~between~~ around 2 Percent Amosite/Chrysotile. This material is friable and in good conditions.

TI-1 = ~~Duct~~ Duct Insulation @ Furnace. This material contained 40 percent chrysotile Asbestos. It's friable and in Fair condition.



There is approximately 28 elbows/Fitting ~~that contained asbestos~~ (PI-1) and Approximately 250SF of Furnace Duct insulation (TI-1). The Vibration Damper in the Air Duct are PACM. No sample were collected [illegible]

Roof Level: Corrugated Tin Roof in Poor condition (RM-1) Asphalt Roll roofing (RF-1)



Notes: The Roofing Flashings RF-1 Recorded Chrysotile Asbestos Ranging in the 2 percent. This Material is non friable and in good Condition

ASBESTOS SURVEY REPORT - FORM 1

BUILDING IDENTIFICATION

County: _____ Facility: Maintenance Shop
Agency: USARC
Building Name: Cambridge Memorial
Building Number: MN006
Address and/or Geographic Location: 540 5th St NW Cambridge MN 55008
Asbestos Contact Person: _____
Telephone Number: (612) 689-1343
Agency Contact: _____ Fax No.: _____

SURVEY IDENTIFICATION

Date of Survey: 11/13/01 Date of Report: _____
Contract No.: _____
Consultant's Name: NIH
Name of Firm: ITI Lic. No.: AI 8506
Address: _____
Telephone Number: _____ FAX No.: _____

BUILDING INFORMATION

Year of Initial Construction: ? 1960 Additional Construction Dates: ?
Renovation Dates: _____
Type of Occupancy: Maintenance Typical Number of Occupants: 2 (list all)

Building Documents/Drawings Available/Consulted

Document Types	YES	No	Available for Review Document Storage Location
Construction Plans		✓	
Construction Specifications		✓	
Renovation Plans		✓	
Renovation Specifications		✓	
Other		✓	
Asbestos Plans		✓	
Asbestos Specifications		✓	
Asbestos Survey/Report		✓	

Number of stories (floors): 1 Area per floor: 1313 SF (1st)
Penthouse Area: N/A
Number of Elevators: NONE Number of Stops: NONE

STRUCTURAL DATA

Vertical Support: Concrete Block Horizontal: Metal Decks & BEAMS
Roof: Asphalt Gravel pebbled pitched roof
Floors: Concrete Slab Ceilings: Metal Deck
Exterior Walls: Exposed Brick Partition Walls: _____

MECHANICAL DATA

Equipment Name	Yes	No	Type	Location
HVAC System	✓		Central	Roof Mounted
Air Handlers	✓		Central	Roof Mounted
Radiators		✓		
Boilers		✓		
Chillers		✓		
Hot Water Heater		✓		
Special Equipment		✓		

Cambridge Memorial MN006

Executive Summary.

This is a concrete blocks bricks layered extra walls pitched Asphalt opaque/pelleted roof comprising approximately 4,316 SF of B/G space. This Building was built in 1960.

Miscellaneous: The vinyl floor tile VFT-1 comprising approximately 3,190 SF is a presummed Asbestos containing Material. This material is non-friable and its' in good condition. The decking tile (CT-1) revealed Asbestos content ranging @ the 4 percent amosite. This material is friable and in good condition, and it comprises approximately 2,840 SF.

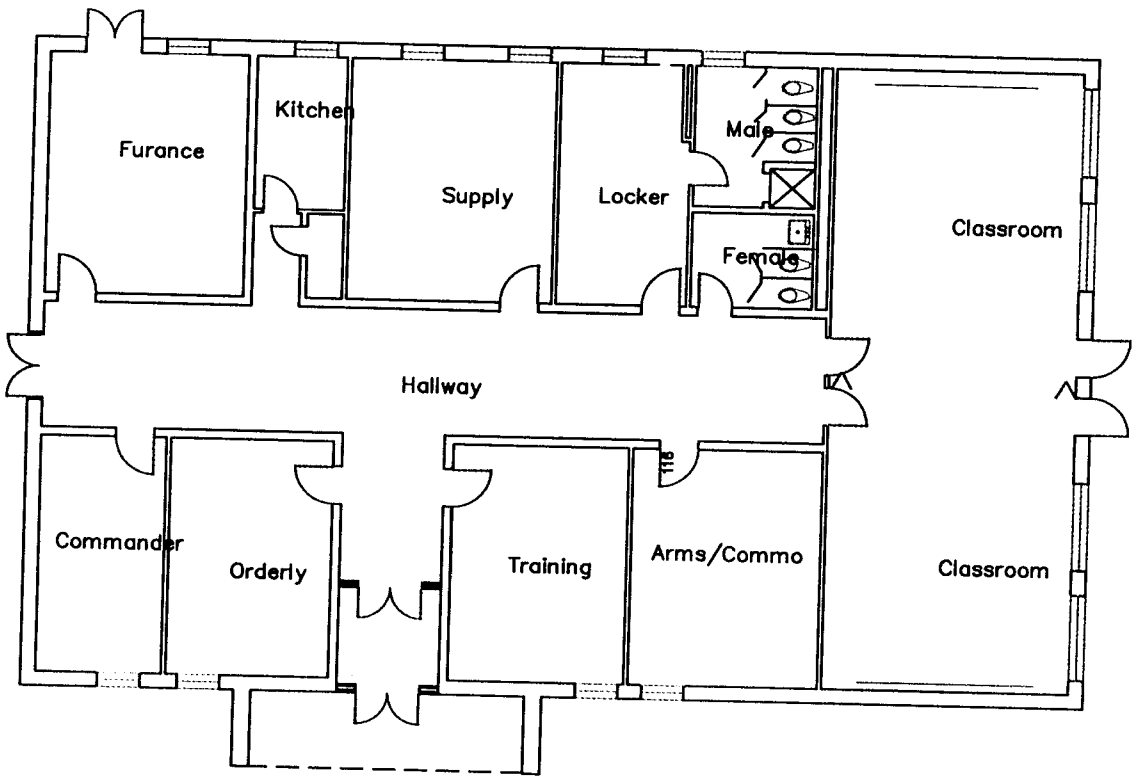
Thermal system: The pipes insulations PI-1 & Elbow revealed amosite & chrysotile asbestos ranging in the 2 percent. This material is friable and in good conditions. The thermal Insulation TI-1 Duct Insulation within the furnace room revealed asbestos content of 40 percent chrysotile.

Surfacing Material No suspected ACM was observed.

Other Materials. The Vibration Dampsters are PACM. The roofing flashing revealed 2 percent Chrysotile asbestos. The roofing Material RM-1 is A PACM. These Material are not friable & in good conditions

APPENDIX B

Facility #	Room Number/Name	Ballast Manufacturer	PCB Label
Cambridge MN006	Classroom	Rapid Start 254-701	Yes
	Classroom	Rapid Start 254-701	Yes
	Office Training Room	General Electric 6G1020	Yes
	Office Training Room	General Electric 6G1020	Yes
	Office Orderly Room	Advance R2540 1TP	Yes
	Office Orderly Room	Advance R2540 1TP	Yes
	Office Commanders Room	General Electric 6G1020	Yes



N

See Chart for locations

ITI of South Florida **Environmental Services** **Drawn: GB**	**Cambridge USARC (MN006)** **540 FIFTH AVENUE N.W.** **CAMBRIDGE, MN**	**FIGURE** **12 NOV 2001**

FIELD NOTES

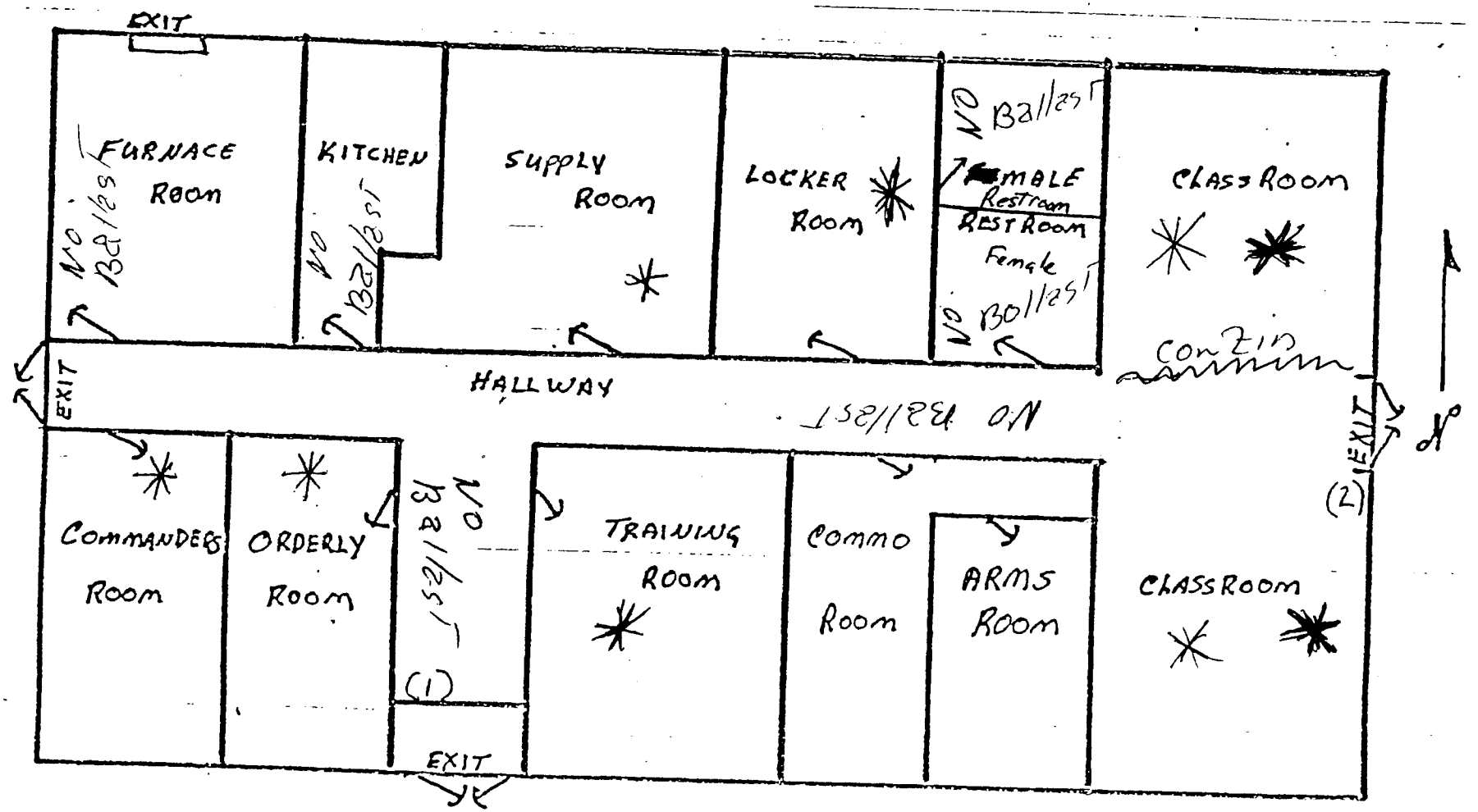
Building Name:
Building Number:

Cambridge
MN 55008-1037
FACID — MN006

MN006

Room Number/Name	Ballast # / Ballast Manufacturer	No PCB's
classe Room.	RAPID START 254-701	✓
classe Room	RAPID START 254-701	✓
office training Room	General E. 66-1-020	✓
office training Room	General E 66 1020	✓
office ORDERLY Room	ADVance R2S40-ITP	✓
office ORDERLY Room	ADVance R2S40-ITP	✓
office commanDens. Room	General E 66 1020	✓
	UNIVERSAL 446 GR ITCP	

PC 13



Cambridge
540 5th Avenue NW
Cambridge MN 55008-1037

APPENDIX C

ADMIN. BUILDING

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR:

Inspection Date: 11/13/01
Report Date: 5/31/2002
Abatement Level: 1.0
Report No. S#01908 - 11/13/01 09:24
Total Readings: 104 Actionable: 9
Job Started: 11/13/01 09:24
Job Finished: 11/13/01 12:26

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Number Only									
103	B	Door	Ctr	Rgt jamb	I	Metal	N/A	1.0	QM
Interior Room 008 Number Only									
063	D	Door	Ctr	Rgt jamb	I	Metal	Beige	1.0	QM
Interior Room 011 Number Only									
077	A	Wall	L Ctr		I	Ceramic	N/A	1.7	QM
078	B	Wall	L Ctr		I	Ceramic	N/A	1.0	QM
079	C	Wall	L Ctr		I	Ceramic	N/A	1.0	QM
080	D	Wall	L Ctr		I	Ceramic	N/A	1.9	QM
Interior Room 012 Hallway									
086	A	Wall	L Ctr		I	Ceramic	N/A	1.0	QM
087	B	Wall	L Ctr		I	Ceramic	N/A	1.0	QM
088	C	Wall	L Ctr		I	Ceramic	N/A	1.5	QM
Calibration Readings									

---- End of Readings ----

DETAILED REPORT OF LEAD PAINT INSPECTION FOR:

Inspection Date: 11/13/01
Report Date: 5/31/2002
Abatement Level: 1.0
Report No. S#01908 - 11/13/01 09:24
Total Readings: 104
Job Started: 11/13/01 09:24
Job Finished: 11/13/01 12:26

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Number Only									
102	B	Fascia			I	N/A	N/A	0.0	QM
100	B	Gutter			I	N/A	N/A	0.2	QM
101	B	Soffit			I	N/A	N/A	0.0	QM
103	B	Door	Ctr	Rgt jamb	I	Metal	N/A	1.0	QM
104	B	Door	Ctr	U Ctr	I	Metal	N/A	0.5	QM
Interior Room 001 Hallway									
004	A	Wall	L Ctr		I	N/A	N/A	-0.2	QM
094	A	Wall	L Ctr		I	N/A	N/A	-0.2	QM
005	B	Wall	L Ctr		I	N/A	N/A	0.4	QM
095	B	Wall	L Ctr		I	N/A	N/A	0.0	QM
006	C	Wall	L Ctr		I	N/A	N/A	0.0	QM
096	C	Wall	L Ctr		I	N/A	N/A	0.0	QM
007	D	Wall	L Ctr		I	N/A	N/A	-0.1	QM
097	D	Wall	L Ctr		I	N/A	N/A	0.0	QM
010	D	Window	Ctr	Sash	I	N/A	N/A	-0.1	QM
011	D	Window	Ctr	Lft casing	I	N/A	N/A	-0.4	QM
008	D	Door	Ctr	Rgt jamb	I	N/A	N/A	0.4	QM
098	D	Door	Ctr	Rgt jamb	I	N/A	N/A	0.3	QM
009	D	Door	Ctr	L Ctr	I	N/A	N/A	-0.1	QM
099	D	Door	Ctr	U Ctr	I	N/A	N/A	-0.1	QM
Interior Room 002 Number Only									
012	A	Wall	L Ctr		I	N/A	N/A	-0.1	QM
013	B	Wall	L Ctr		I	N/A	N/A	-0.3	QM
014	C	Wall	L Ctr		I	N/A	N/A	-0.1	QM
015	C	Window	Ctr	Sash	I	N/A	N/A	0.0	QM
018	C	Door	Ctr	Header	I	N/A	N/A	0.6	QM
016	C	Door	Ctr	Rgt jamb	I	N/A	N/A	-0.1	QM
017	C	Door	Ctr	U Ctr	I	N/A	N/A	-0.1	QM
Interior Room 003 Number Only									
019	A	Wall	L Ctr		I	N/A	N/A	-0.1	QM
020	B	Wall	L Ctr		I	N/A	N/A	-0.1	QM
021	C	Wall	L Ctr		I	N/A	N/A	-0.1	QM
022	D	Wall	L Ctr		I	N/A	N/A	-0.2	QM
024	D	Window	Ctr	Well	I	N/A	N/A	0.0	QM
023	D	Window	Ctr	Lft casing	I	N/A	N/A	-0.3	QM
025	D	Door	Ctr	Rgt jamb	I	N/A	N/A	0.3	QM
026	D	Door	Ctr	U Ctr	I	N/A	N/A	-0.1	QM
Interior Room 004 Number Only									
027	A	Wall	L Ctr		I	N/A	N/A	-0.2	QM
028	B	Wall	L Ctr		I	N/A	N/A	0.1	QM
029	C	Wall	L Ctr		I	N/A	N/A	0.1	QM
030	D	Wall	L Ctr		I	N/A	N/A	-0.1	QM
031	D	Window	Ctr	Sash	I	N/A	N/A	-0.2	QM
032	D	Window	Ctr	Lft casing	I	N/A	N/A	-0.6	QM
033	D	Door	Ctr	Rgt jamb	I	N/A	N/A	0.4	QM

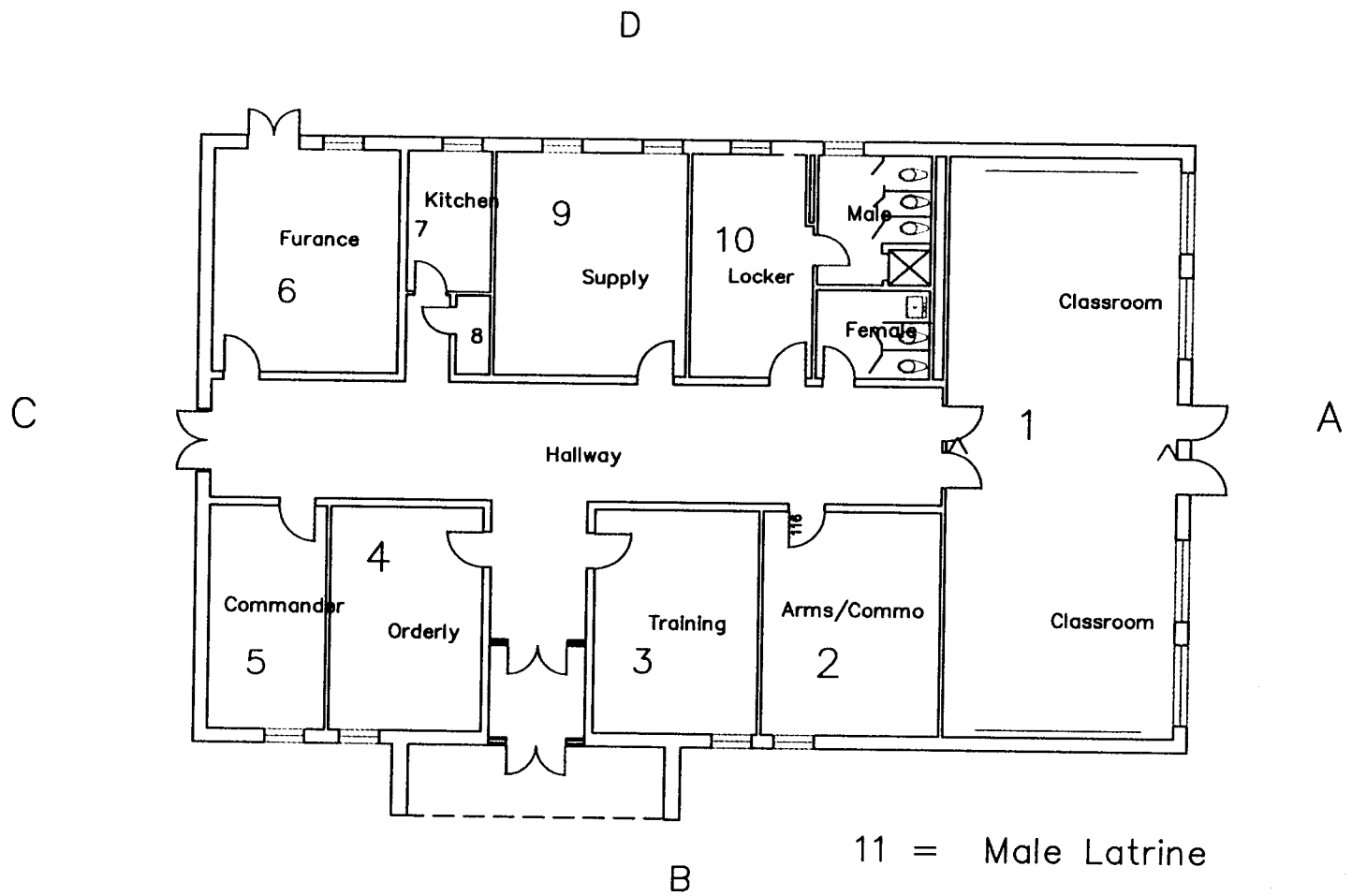
DETAILED REPORT OF LEAD PAINT INSPECTION FOR:

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
034	D	Door	Ctr	U Ctr	I	N/A	N/A	0.0	QM
Interior Room 005 Number Only									
035	A	Wall	L Ctr		I	N/A	N/A	-0.2	QM
036	B	Wall	L Ctr		I	N/A	N/A	0.1	QM
037	C	Wall	L Ctr		I	N/A	N/A	-0.1	QM
038	D	Wall	L Ctr		I	N/A	N/A	-0.2	QM
039	D	Window	Ctr	Well	I	N/A	N/A	-0.1	QM
040	D	Window	Ctr	Lft casing	I	N/A	N/A	-0.4	QM
041	D	Door	Ctr	Rgt jamb	I	N/A	N/A	0.3	QM
042	D	Door	Ctr	U Ctr	I	N/A	N/A	0.0	QM
Interior Room 006 Number Only									
043	A	Wall	L Ctr		I	N/A	N/A	0.0	QM
049	A	Ceiling			I	N/A	N/A	0.1	QM
044	B	Wall	L Ctr		I	N/A	N/A	0.1	QM
045	C	Wall	L Ctr		I	N/A	N/A	0.0	QM
046	D	Wall	L Ctr		I	N/A	N/A	-0.1	QM
047	D	Door	Ctr	Rgt jamb	I	N/A	N/A	0.6	QM
048	D	Door	Ctr	U Ctr	I	N/A	N/A	0.0	QM
Interior Room 007 Number Only									
050	A	Wall	L Ctr		I	N/A	N/A	0.3	QM
051	B	Wall	L Ctr		I	N/A	N/A	-0.2	QM
052	C	Wall	L Ctr		I	N/A	N/A	0.0	QM
053	D	Wall	L Ctr		I	N/A	N/A	-0.1	QM
054	D	Window	Ctr	Well	I	N/A	N/A	0.0	QM
055	D	Window	Ctr	Lft jamb	I	N/A	N/A	0.0	QM
057	D	Door	Ctr	Rgt jamb	I	N/A	N/A	0.3	QM
056	D	Door	Ctr	U Ctr	I	N/A	N/A	0.0	QM
058	D	Door	Ctr	U Ctr	I	N/A	N/A	0.0	QM
Interior Room 008 Number Only									
059	A	Wall	L Ctr		I	N/A	N/A	-0.2	QM
060	B	Wall	L Ctr		I	N/A	N/A	-0.2	QM
061	C	Wall	L Ctr		I	N/A	N/A	0.0	QM
062	D	Wall	L Ctr		I	N/A	N/A	0.2	QM
063	D	Door	Ctr	Rgt jamb	I	Metal	Beige	1.0	QM
064	D	Door	Ctr	U Ctr	I	N/A	N/A	0.2	QM
Interior Room 009 Number Only									
065	A	Wall	L Ctr		I	N/A	N/A	-0.1	QM
069	A	Ceiling			I	N/A	N/A	0.0	QM
070	A	Door	Ctr	Rgt jamb	I	N/A	N/A	0.2	QM
071	A	Door	Ctr	U Ctr	I	N/A	N/A	0.0	QM
066	B	Wall	L Ctr		I	N/A	N/A	0.1	QM
067	C	Wall	L Ctr		I	N/A	N/A	0.0	QM
068	D	Wall	L Ctr		I	N/A	N/A	0.1	QM
Interior Room 010 Number Only									
072	A	Wall	L Ctr		I	N/A	N/A	0.0	QM
074	A	Ceiling			I	N/A	N/A	-0.1	QM
076	A	Door	Ctr	Rgt jamb	I	N/A	N/A	0.6	QM
075	A	Door	Ctr	U Ctr	I	N/A	N/A	0.2	QM
073	B	Wall	L Ctr		I	N/A	N/A	0.1	QM
Interior Room 011 Number Only									

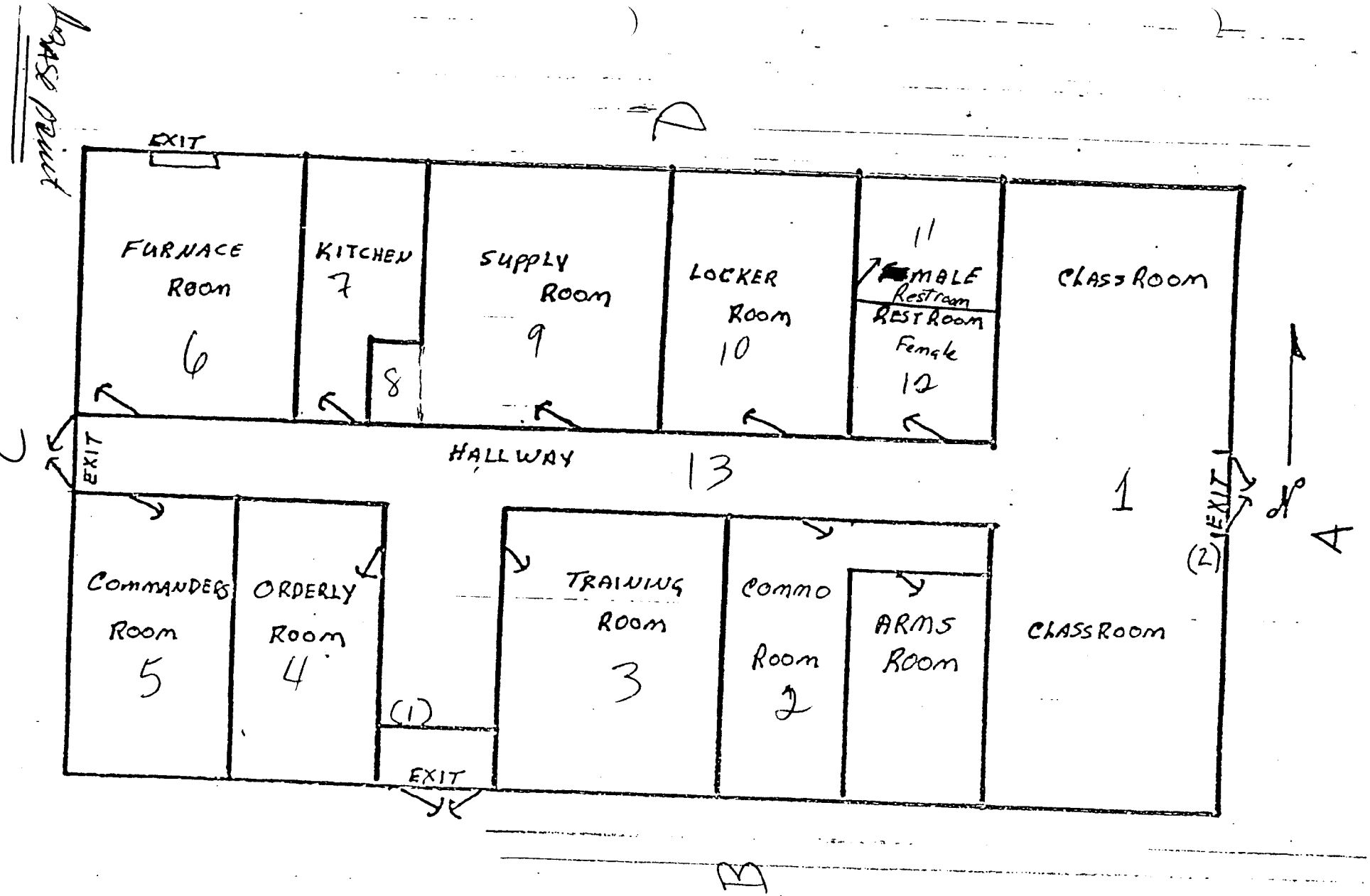
DETAILED REPORT OF LEAD PAINT INSPECTION FOR:

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
077	A	Wall	L Ctr		I	Ceramic	N/A	1.7	QM
083	A	Floor			I	N/A	N/A	-0.1	QM
081	A	Ceiling			I	N/A	N/A	-0.2	QM
085	A	Door	Ctr	Rgt jamb	I	N/A	N/A	0.3	QM
084	A	Door	Ctr	U Ctr	I	N/A	N/A	0.0	QM
078	B	Wall	L Ctr		I	Ceramic	N/A	1.0	QM
079	C	Wall	L Ctr		I	Ceramic	N/A	1.0	QM
082	C	Ceiling			I	N/A	N/A	0.0	QM
080	D	Wall	L Ctr		I	Ceramic	N/A	1.9	QM
Interior Room 012 Hallway									
086	A	Wall	L Ctr		I	Ceramic	N/A	1.0	QM
091	A	Floor			I	N/A	N/A	-0.1	QM
090	A	Ceiling			I	N/A	N/A	-0.1	QM
092	A	Door	Ctr	Rgt jamb	I	N/A	N/A	0.4	QM
093	A	Door	Ctr	U Ctr	I	N/A	N/A	0.1	QM
087	B	Wall	L Ctr		I	Ceramic	N/A	1.0	QM
088	C	Wall	L Ctr		I	Ceramic	N/A	1.5	QM
089	D	Wall	L Ctr		I	Ceramic	N/A	0.0	QM
Calibration Readings									
001								1.1	Std
002								1.2	Std
003								1.3	Std

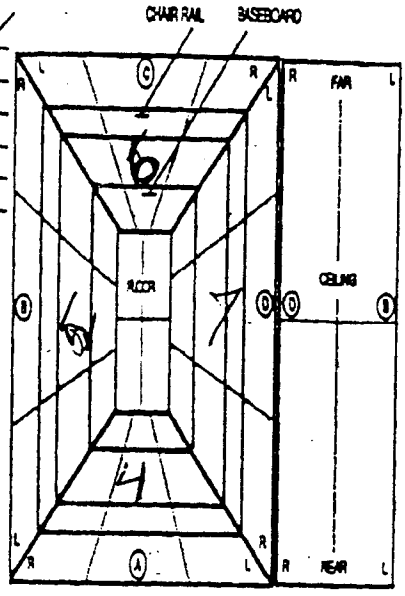
---- End of Readings ----



ITI of South Florida **Environmental Services** **Drawn: GB**	**Cambridge USARC (MN006)** **540 FIFTH AVENUE N.W.** **CAMBRIDGE, MN**	**FIGURE** **12 NOV 2001**


EXIT
FURNACE Room 6
KITCHEN 7
8
SUPPLY Room 9
LOCKER Room 10
11
MALE Restroom
REST Room
Female
12
CLASS ROOM
HALLWAY 13
EXIT
EXIT
1
(2)
COMMANDERS Room 5
ORDERLY Room 4
(1)
EXIT
TRAINING Room 3
COMMO Room 2
ARMS Room
CLASS ROOM
A
B
C
D

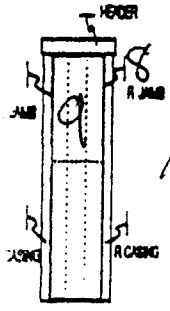
ADDRESS: Restroom

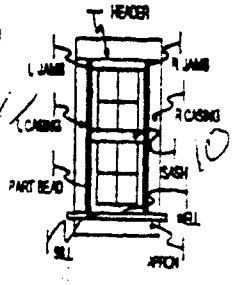


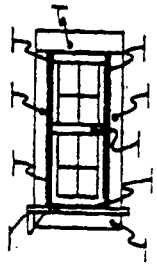
UNIT #
ROOM # 1

READINGS ON UNSOUND PAINT ARE CIRCLED

WALL A B C D
LEFT
RIGHT
CORNER



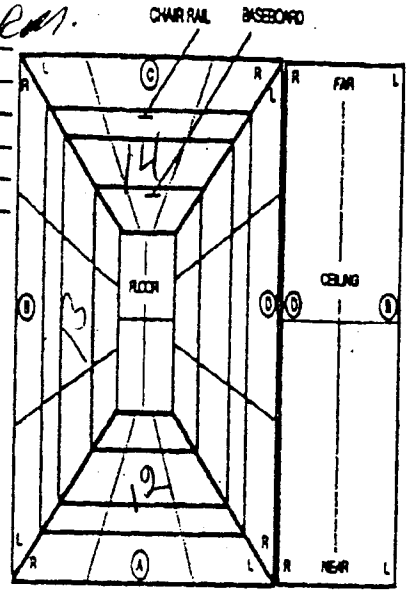




COMMENTS: All walls are 1/3 Beige painted concrete Blocks and 2/3 Tan painted concrete blocks. The Jambs are of Beige painted metal substrate. The Door is of Beige painted metal substrate. The Window Frame is of Black painted Metal Substrate and the window sash is of Black like the counter top Material.

Samples 1, 2, & 3 are calibrations samples.

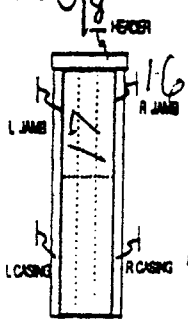
ADDRESS: Common Rm.

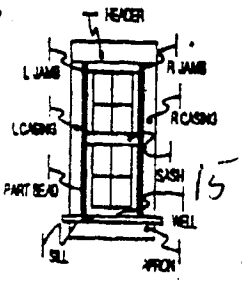


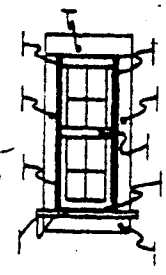
UNIT #
ROOM # 2

READINGS ON UNSOUND PAINT ARE CIRCLED

WALL A B C D
LEFT
RIGHT
CORNER

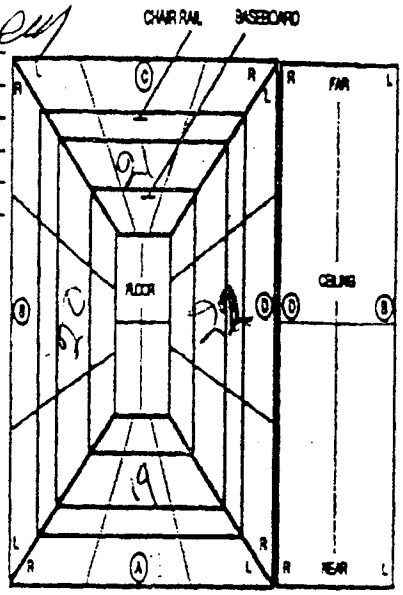






COMMENTS: Same as #1

ADDRESS: Living Rm



JOB #

CAL CHK

UNIT # ___

ROOM # 3

READINGS ON UNSOUND PAINT ARE CIRCLED

WALL A B C D

LEFT

RIGHT

CENTER

WALL A B C D

LEFT

RIGHT

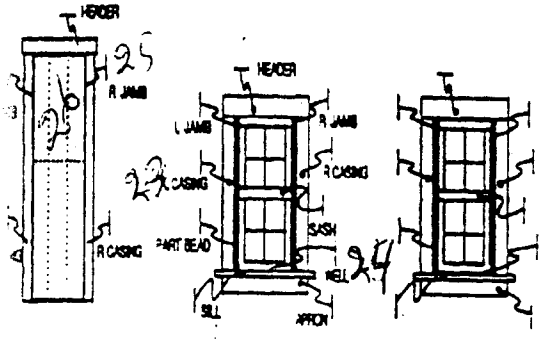
CENTER

WALL A B C D

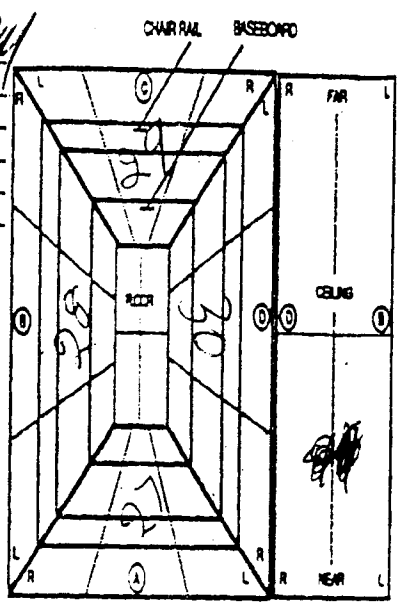
LEFT

RIGHT

CENTER



ADDRESS: Dining Rm



JOB #

CAL CHK

UNIT # ___

ROOM # 4

READINGS ON UNSOUND PAINT ARE CIRCLED

WALL A B C D

LEFT

RIGHT

CENTER

WALL A B C D

LEFT

RIGHT

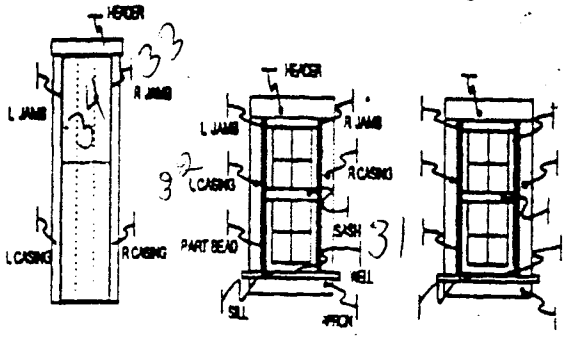
CENTER

WALL A B C D

LEFT

RIGHT

CENTER



COMMENTS: ~~Same As all walls~~ use Q V3 Base concrete block Substrate and 2/3 painted tan concrete blocks the door jamb is metal ~~and~~ painted TUE DOOR IS Wooden slabs painted substrate. THE Window frame is of metal Block painted substrate THE windows sash is of Lab ~~top~~ countertops.

COMMENTS: Same as #3

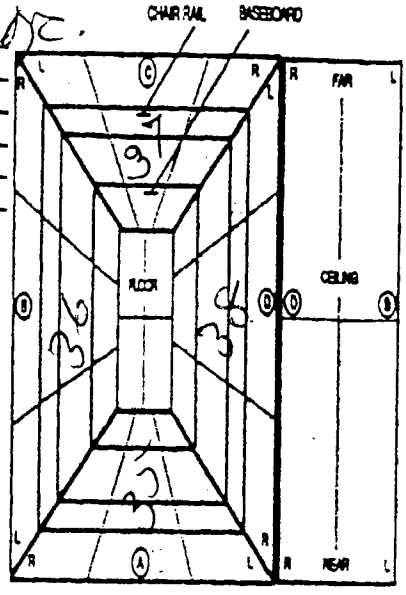
ADDRESS Guardrail Dr.

JOB #

CALC'ER

UNIT # ____

ROOM # 5



READINGS ON UNSOUND PAINT ARE CIRCLED

WALL A B C D

LEFT

RIGHT

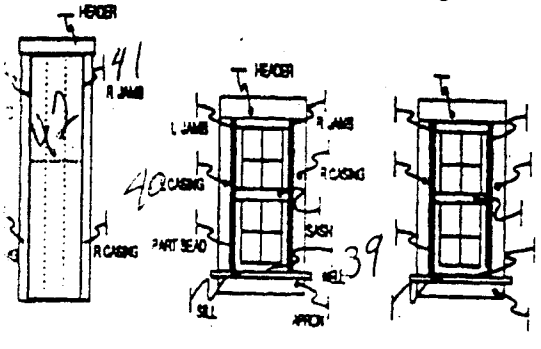
CENTER

WALL A B C D

LEFT

RIGHT

CENTER



COMMENTS: Same as #3

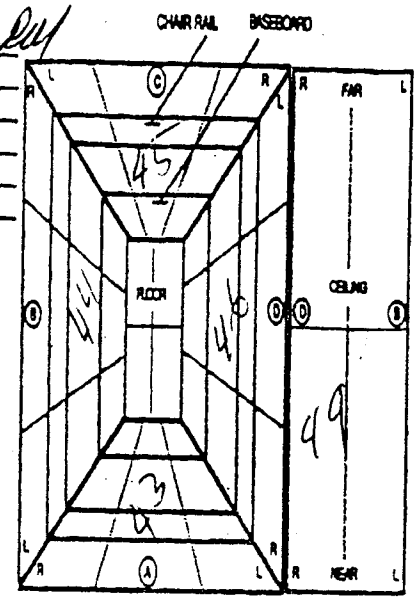
ADDRESS Furnace Rm

JOB #

CALC'ER

UNIT # ____

ROOM # 6



READINGS ON UNSOUND PAINT ARE CIRCLED

WALL A B C D

LEFT

RIGHT

CENTER

WALL A B C D

LEFT

RIGHT

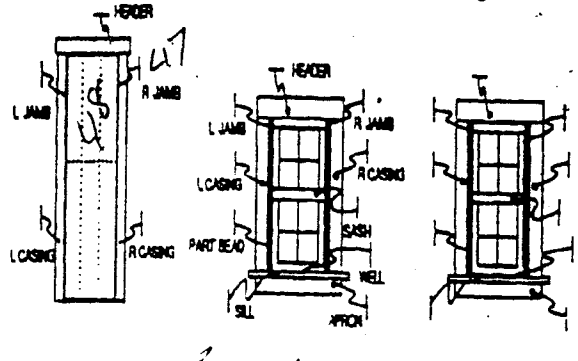
CENTER

WALL A B C D

LEFT

RIGHT

CENTER



COMMENTS: All woods are painted BLACK V3 Beige painted and 2/3 Tan the doors are painted substrate as well as the window sills. The window's exterior is black painted metal substrate. The sashs of the countertops like V3 oak material. The ceiling is a textured-on Tan painted sub-substrate.

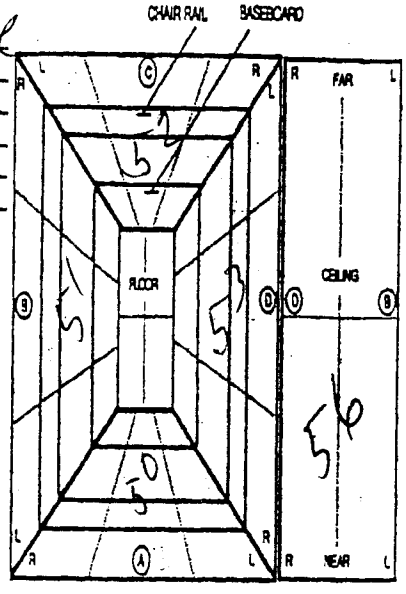
ADDRESS: Kitchen

JOB #

CAL CHK

UNIT # ____

ROOM # 7



READINGS ON UNSOUND PAINT ARE CIRCLED

WALL A B C D

LEFT

RIGHT

CENTER

WALL A B C D

LEFT

RIGHT

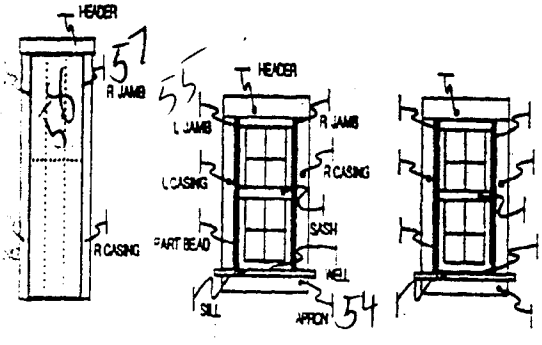
CENTER

WALL A B C D

LEFT

RIGHT

CENTER



COMMENTS: All walls are concrete blocks V3 Base painted & V3 Top painted tile joints are V3 Base painted metal substrate, all the doors & wooden shelf look painted substrate. The window is metal (Framed) black painted substrate. The soffit is like the counter tops material look in color. The ceiling is a trowled-on concrete V3 painted substrate.

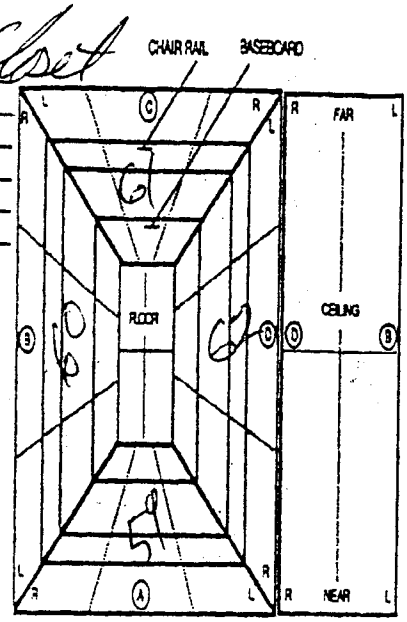
ADDRESS: Master Closet

JOB #

CAL CHK

UNIT # ____

ROOM # 8



READINGS ON UNSOUND PAINT ARE CIRCLED

WALL A B C D

LEFT

RIGHT

CENTER

WALL A B C D

LEFT

RIGHT

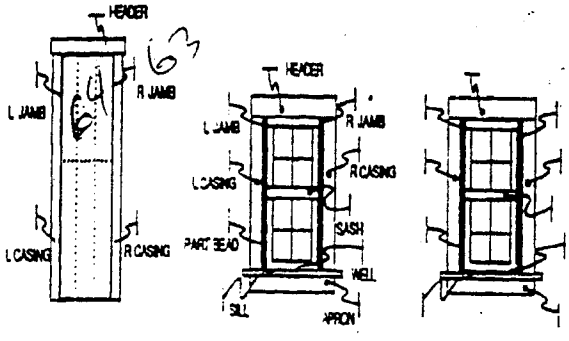
CENTER

WALL A B C D

LEFT

RIGHT

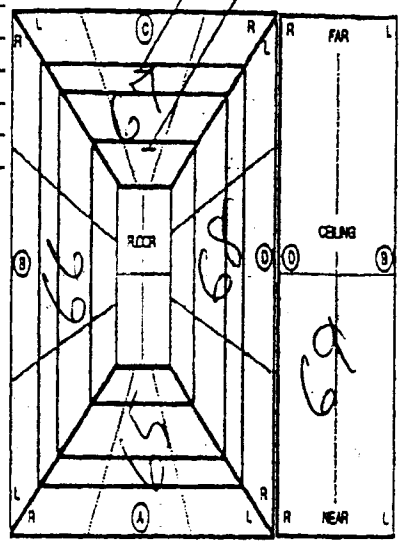
CENTER



COMMENTS: Same as #7 without elevations

ADDRESS 1400 RM

CHAIR RAIL BASEBOARD



UNIT # ___

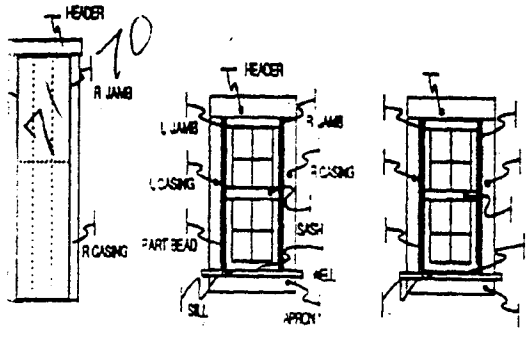
ROOM # 9

READINGS ON UNSOUND PAINT ARE CIRCLED

	WALL A	B	C	D

WALL	A	B	C	D
LEFT				
RIGHT				
CENTER				

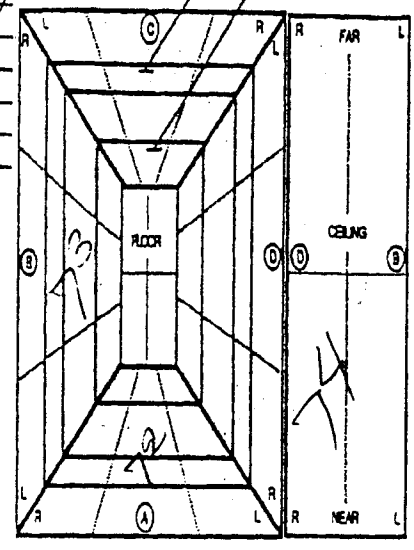
WALL	A	B	C	D
LEFT				
RIGHT				
CENTER				



COMMENTS: Same as #7

ADDRESS Locker RM

CHAIR RAIL BASEBOARD



JOB #

CAL CHK

UNIT # ___

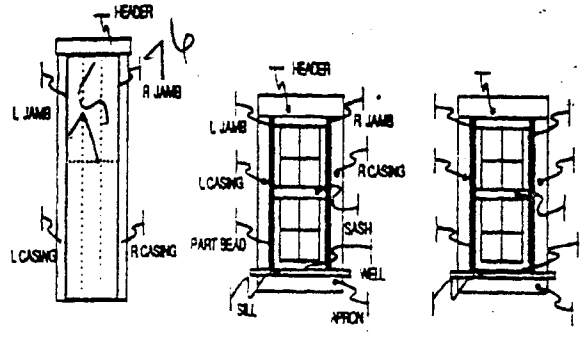
ROOM # 10

READINGS ON UNSOUND PAINT ARE CIRCLED

WALL	A	B	C	D
LEFT				
RIGHT				
CENTER				

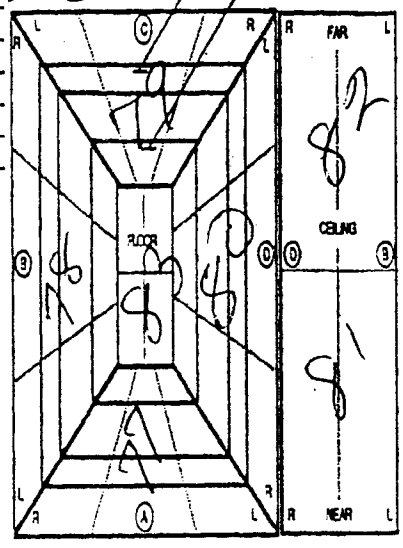
WALL	A	B	C	D
LEFT				
RIGHT				
CENTER				

WALL	A	B	C	D
LEFT				
RIGHT				
CENTER				



COMMENTS: Same as #7

ADDRESS: Yorkshire



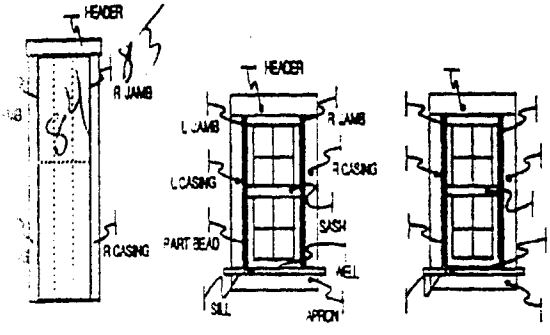
UNIT # _____
ROOM # 11

READINGS ON UNSOUND PAINT ARE CIRCLED

WALL A B C D
LEFT
RIGHT
CENTER

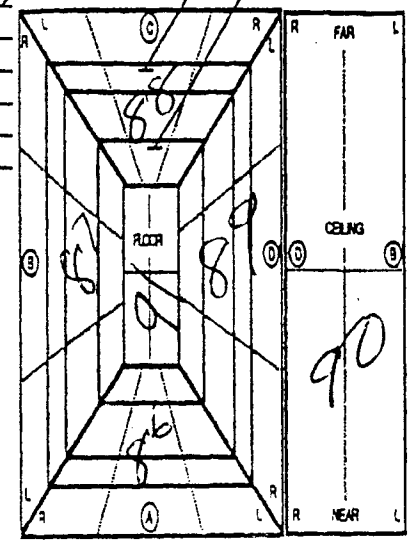
WALL A B C D
LEFT
RIGHT
CENTER

WALL A B C D
LEFT
RIGHT
CENTER



COMMENTS: 1/2 of the wall is of same tile as well as the floor. Doors & Bath panel is of metal substrate. The door is of Garden steel tar painted substrate. The window frames is of Black painted metal substrate and the sash is of Sbloc. Other trims similar material. The ceiling is of drywall-on concrete for painted substrate

ADDRESS: Yorkshire



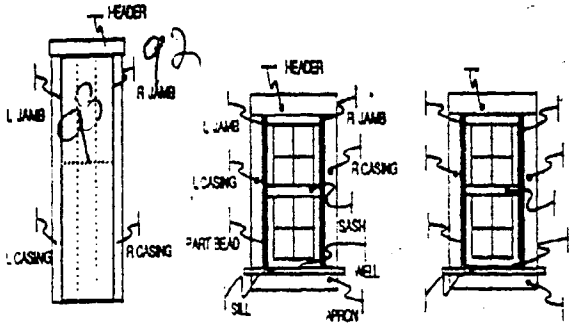
JOB #
CAL CHK
UNIT # _____
ROOM # 12

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: Same as 11 Except this does not have windows

ADDRESS: Driveway

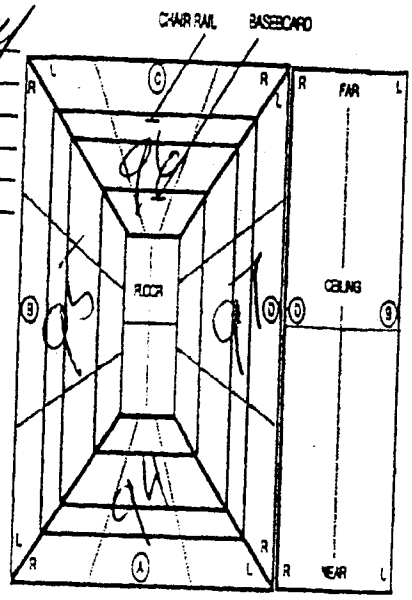
JOB #

CAL CHK

UNIT #____

ROOM #____

READINGS ON UNSOUND PAINT ARE CIRCLED



WALL A B C D

LEFT

RIGHT

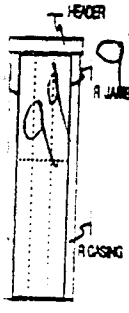
CENTER

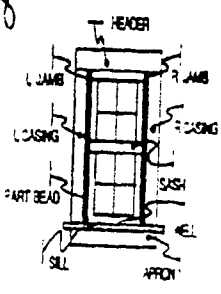
WALL A B C D

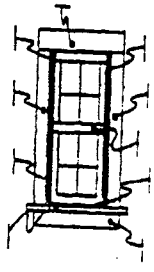
LEFT

RIGHT

CENTER







ADDRESS

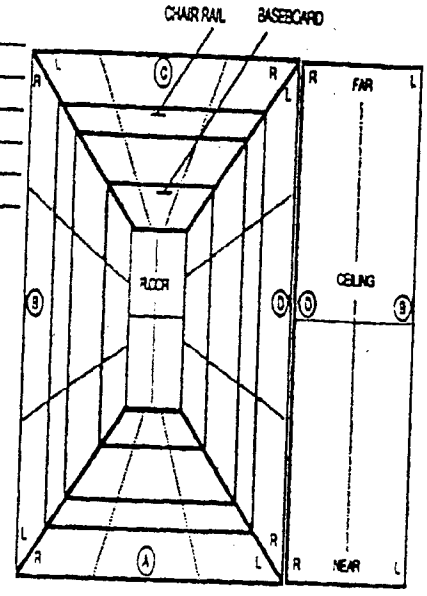
JOB #

CAL CHK

UNIT #____

ROOM #____

READINGS ON UNSOUND PAINT ARE CIRCLED



WALL A B C D

LEFT

RIGHT

CENTER

WALL A B C D

LEFT

RIGHT

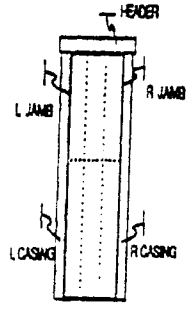
CENTER

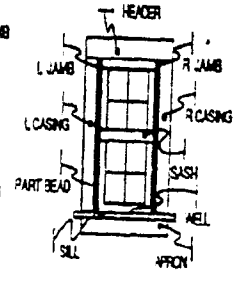
WALL A B C D

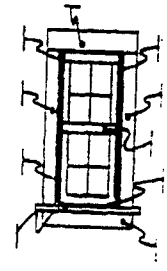
LEFT

RIGHT

CENTER







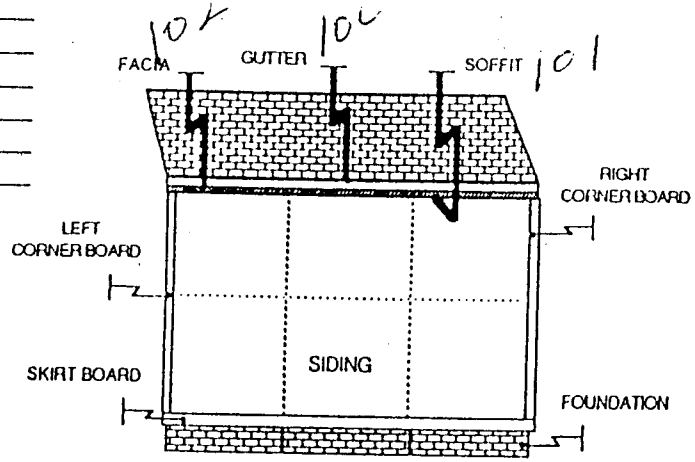
ITS: Same as #1 Except Doesn't have Chair Rail

COMMENTS:

JOB #

CAL CHK

UNIT #_____



READINGS ON UNSOUND PAINT ARE CIRCLED

WALL (A) (B) (C) (D)

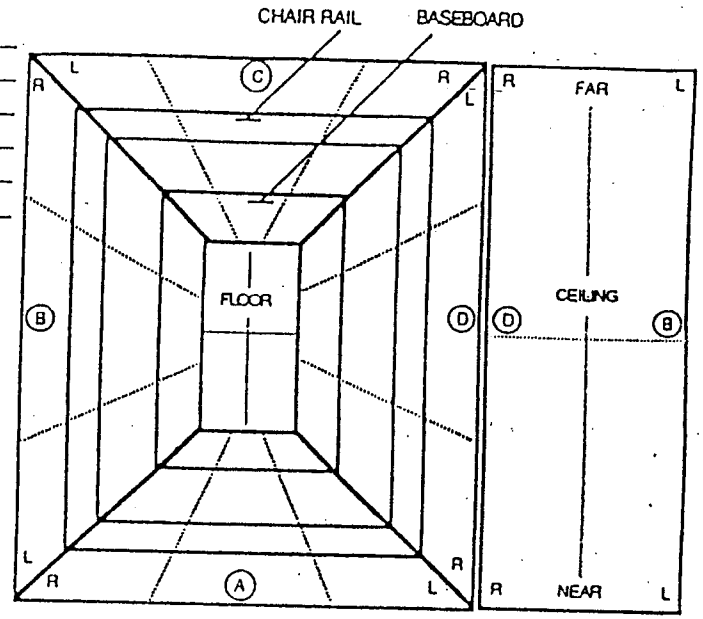
ADDRESS

JOB #

CAL CHK

UNIT #_____

ROOM #_____



READINGS ON UNSOUND PAINT ARE CIRCLED

WALL (A) (B) (C) (D)
LEFT ◯
RIGHT ◯
CENTER ◯

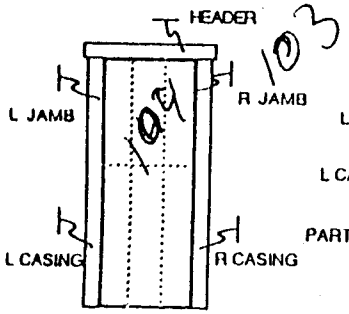
WALL (A) (B) (C) (D)
LEFT ◯
RIGHT ◯
CENTER ◯

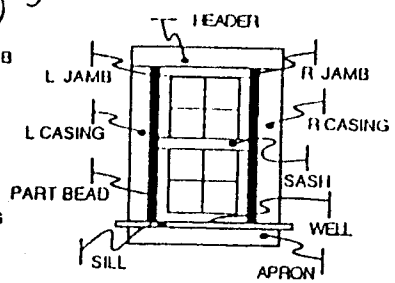
WALL (A) (B) (C) (D)
LEFT ◯
RIGHT ◯
CENTER ◯

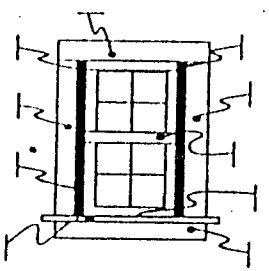
WALL (A) (B) (C) (D)
LEFT ◯
RIGHT ◯
CENTER ◯

WALL (A) (B) (C) (D)
LEFT ◯
RIGHT ◯
CENTER ◯

WALL (A) (B) (C) (D)
LEFT ◯
RIGHT ◯
CENTER ◯







COMMENTS: 5241 DOOR-

SHOP BUILDING

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR:

Inspection Date: 11/13/01
Report Date: 5/31/2002
Abatement Level: 1.0
Report No. S#01908 - 11/13/01 13:52
Total Readings: 21 Actionable: 5
Job Started: 11/13/01 13:52
Job Finished: 11/13/01 14:14

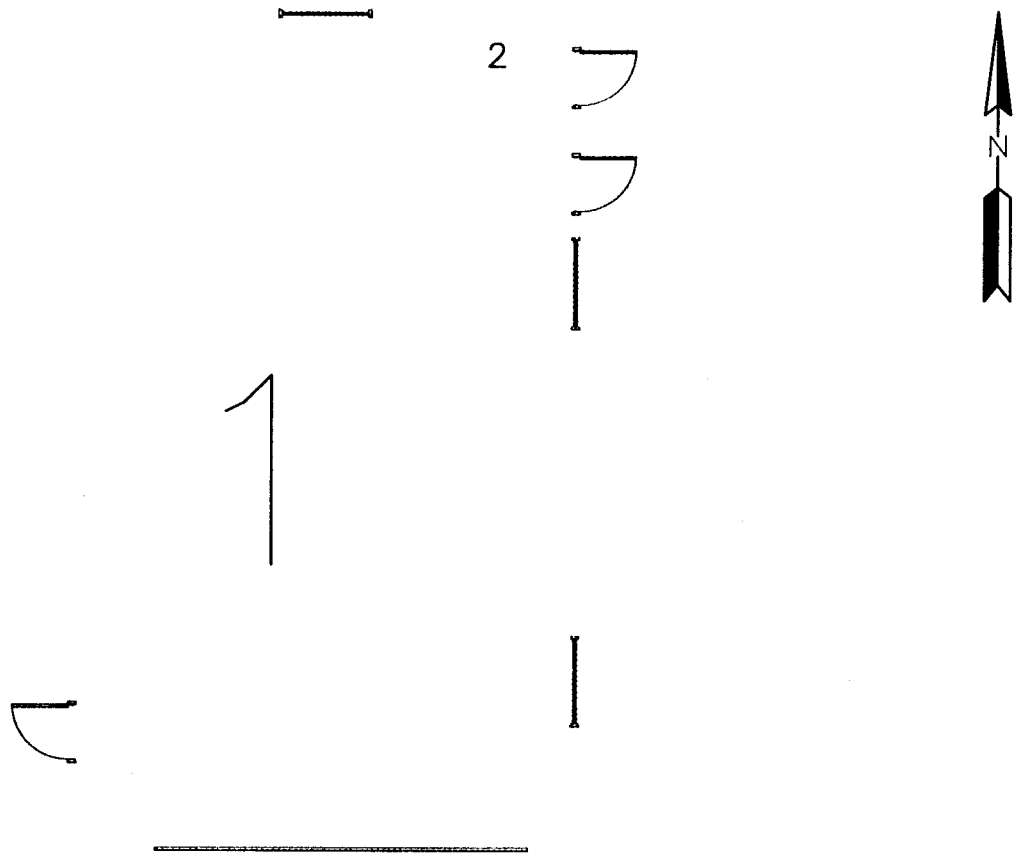
Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Interior Room 002 Storage									
016	A	Door	Ctr	Rgt jamb	I	Metal	Gray	1.0	QM
021	A	Door	Ctr	Rgt casing	I	N/A	Gray	1.9	QM
020	A	Door	Ctr	Lft casing	I	N/A	Gray	2.7	QM
018	A	Door	Ctr	U Ctr	I	N/A	Gray	2.1	QM
019	A	Door	Ctr	U Ctr	I	N/A	Gray	2.1	QM
---- End of Readings ----									

DETAILED REPORT OF LEAD PAINT INSPECTION FOR:

Inspection Date: 11/13/01
Report Date: 5/31/2002
Abatement Level: 1.0
Report No. S#01908 - 11/13/01 13:52
Total Readings: 21
Job Started: 11/13/01 13:52
Job Finished: 11/13/01 14:14

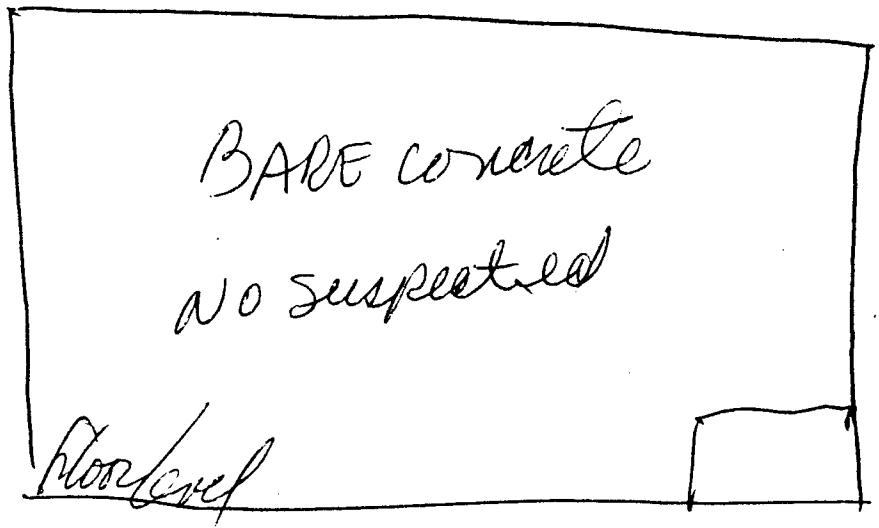
Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Interior Room 001 Number Only									
004	A	Wall	L Ctr		I	N/A	N/A	0.4	QM
005	B	Wall	L Ctr		I	N/A	N/A	0.1	QM
006	C	Wall	L Ctr		I	N/A	N/A	0.0	QM
008	C	Floor			I	N/A	N/A	-0.2	QM
011	C	Window	Lft	Lft casing	I	N/A	N/A	-0.2	QM
012	C	Window	Lft	Lft casing	I	N/A	N/A	0.0	QM
009	C	Door	Ctr	Rgt jamb	I	N/A	N/A	0.2	QM
010	C	Door	Ctr	L Ctr	I	N/A	N/A	0.5	QM
007	D	Chair rail	Ctr		I	N/A	N/A	-0.2	QM
Interior Room 002 Storage									
015	A	Ceiling			I	N/A	N/A	0.0	QM
016	A	Door	Ctr	Rgt jamb	I	Metal	Gray	1.0	QM
021	A	Door	Ctr	Rgt casing	I	N/A	Gray	1.9	QM
020	A	Door	Ctr	Lft casing	I	N/A	Gray	2.7	QM
017	A	Door	Ctr	U Ctr	I	N/A	Gray	0.3	QM
018	A	Door	Ctr	U Ctr	I	N/A	Gray	2.1	QM
019	A	Door	Ctr	U Ctr	I	N/A	Gray	2.1	QM
013	B	Wall	L Ctr		I	N/A	N/A	0.0	QM
014	D	Wall	L Ctr		I	N/A	N/A	0.0	QM
Calibration Readings									
001								0.9	Std
002								0.8	Std
003								0.9	Std

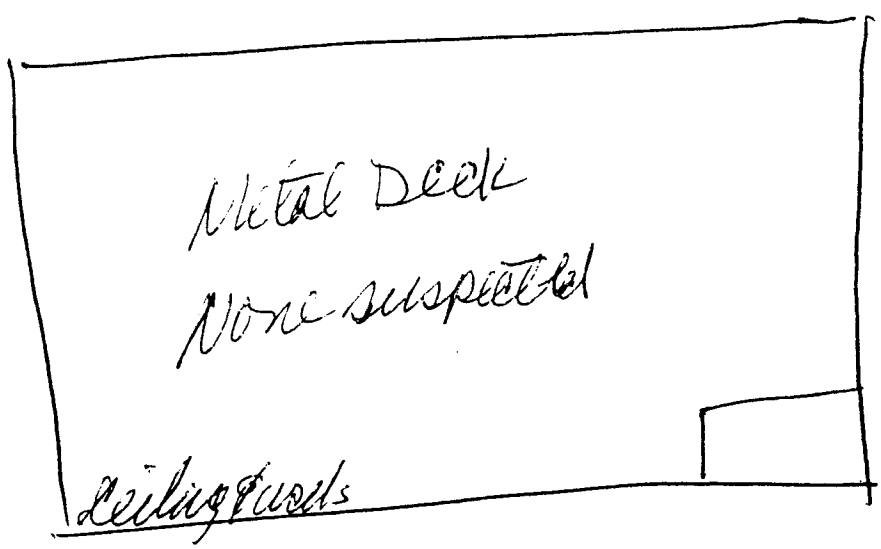
---- End of Readings ----

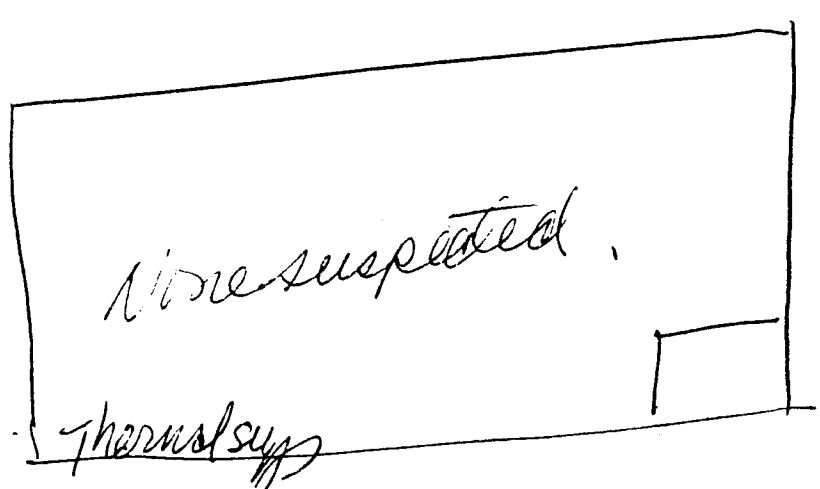


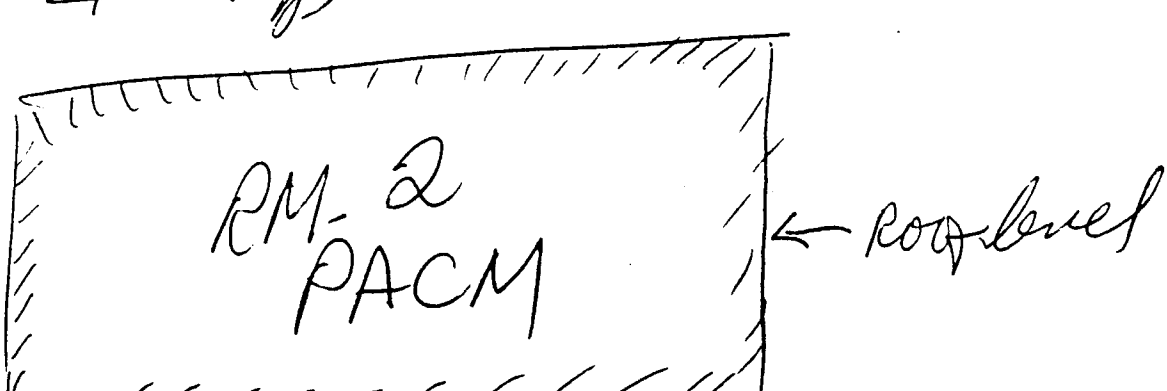
ITI of South Florida **Environmental Services** **Drawn: GB**	**Cambridge USARC (MN006)** **OMS** **CAMBRIDGE, MN**	**FIGURE** **12 NOV 2001** **Floor Plan**

Maintenance Shop









Cambridge Memorial
LEAD fill 11/3 1352

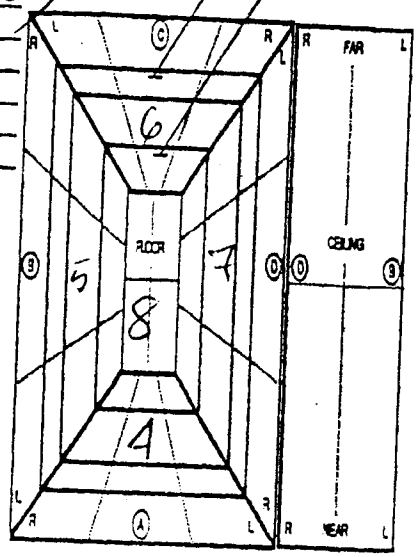
ADDRESS Entrance Bay

CHAIR RAIL BASEBOARD

JOB #
CAL CHK

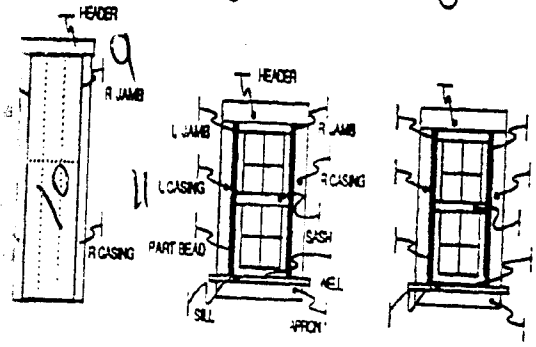
UNIT #
ROOM # 1

READINGS ON UNSOUND PAINT ARE CIRCLED



WALL A B C D

LEFT
RIGHT
CENTER



COMMENTS: All walls are concrete Blocks 1/3 scotch painted substrate, and 2/3 raw painted substrate. The floor is scotch painted and floor paint ~~substrate~~ substrate. The door is of ~~color painted metal~~ substrate. As well as the trim. Samples 1, 2 & 3 are Celebration samples. The deck is of raw painted metal substrate. The windows casing is of Metal Block painted [illegible]

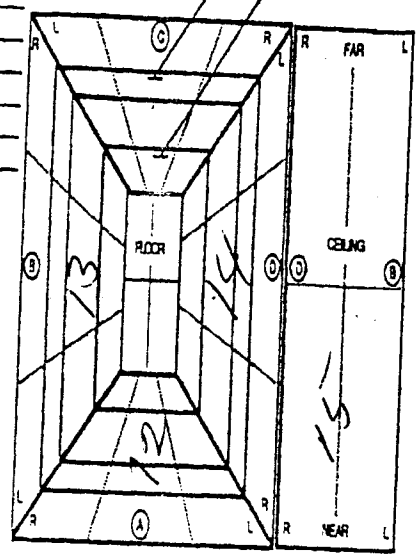
ADDRESS Stage

CHAIR RAIL BASEBOARD

JOB #
CAL CHK

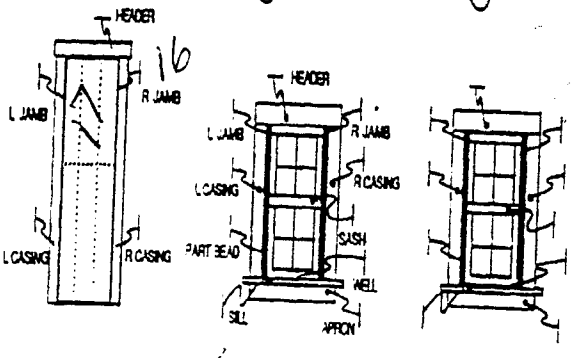
UNIT #
ROOM # 2

READINGS ON UNSOUND PAINT ARE CIRCLED



WALL A B C D

LEFT
RIGHT
CENTER



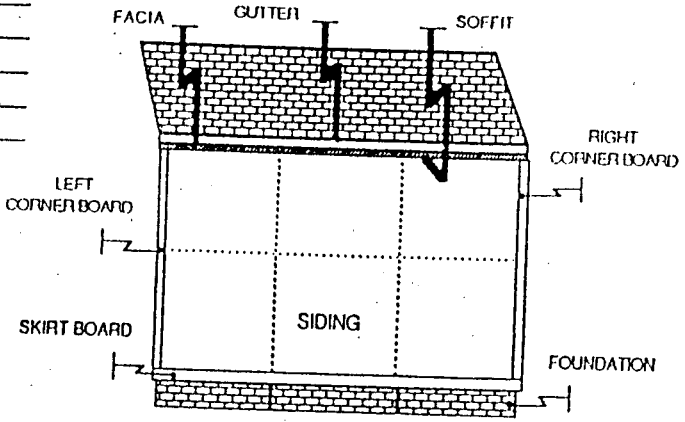
COMMENTS: All walls are of Concrete Blocks Dark gray painted substrate. The door is of Gray painted Metal substrate. The ceiling is of gray painted concrete substrate.

ADDRESS

JOB #

CAL CHK

UNIT #_____



READINGS ON UNSOUND PAINT ARE CIRCLED

WALL (A) (B) (C) (D)

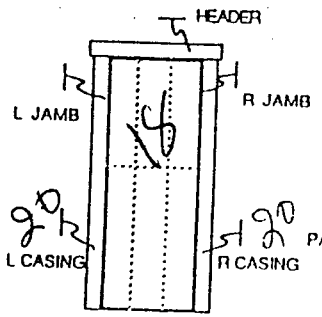
LEFT ◯
RIGHT ◯
CENTER ◯

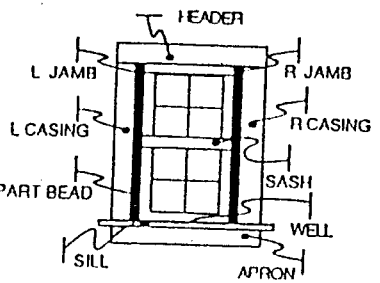
WALL (A) (B) (C) (D)

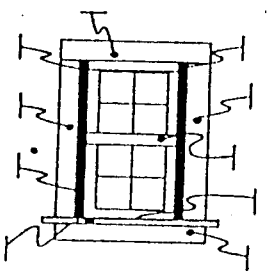
LEFT ◯
RIGHT ◯
CENTER ◯

WALL (A) (B) (C) (D)

LEFT ◯
RIGHT ◯
CENTER ◯







COMMENTS:

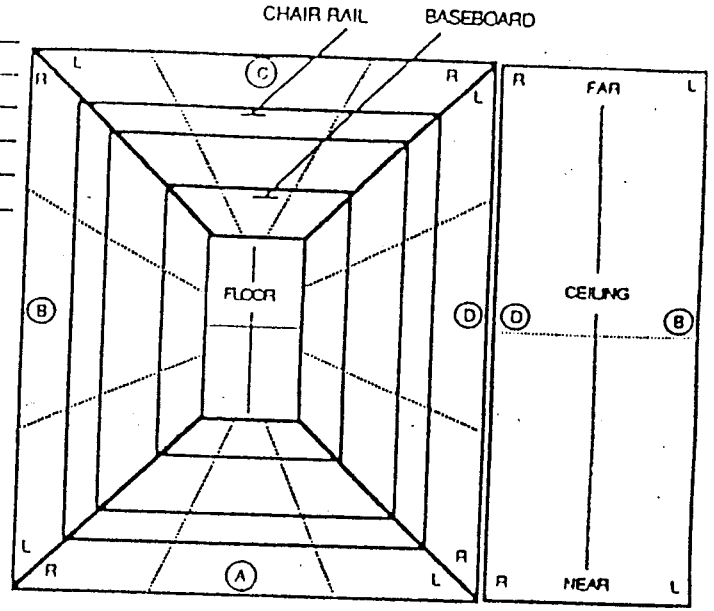
ADDRESS

JOB #

CAL CHK

UNIT #_____

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 ◯

Maintenance Shop

BARE concrete
NO suspected

floor level

Metal Deck
None suspected

ceiling pads

None suspected.

Thermal sys

RM-2
PACM

← Roof level

Cambridge Memorial
LEAD Full 11/3 1352

ADDRESS Alternative Bay

CHAIR RAIL BASEBOARD

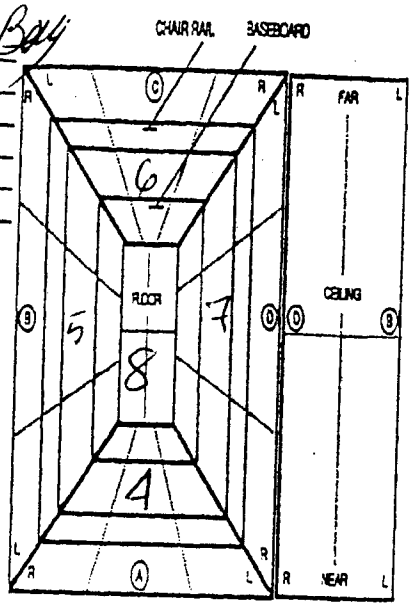
JOB #

CAL CHK

UNIT #

ROOM # 1

READINGS ON UNSOUND PAINT ARE CIRCLED

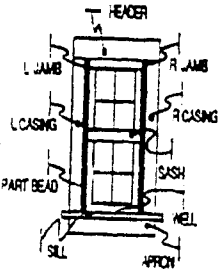


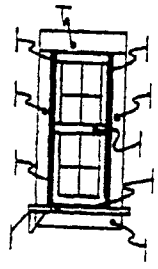
WALL A B C D

LEFT

RIGHT

CENTER





COMMENTS: All wall are concrete Blocks 3 SCOTCH painted substrate and 2/3 is painted substrate, the floor is scathered painted floor paint ~~substrate~~ substrate the door is of cotton painted metal substrate as well as the sills. The swipe samples 1, 2 & 3 are Calibration samples. The desk is of tan painted metal substrate the windows casing is of metal Block painted substrate.

ADDRESS Storage

CHAIR RAIL BASEBOARD

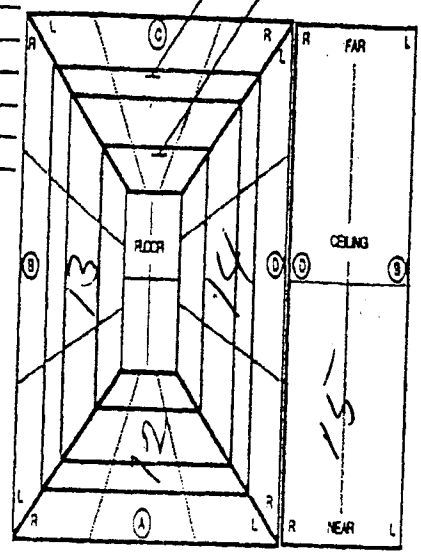
JOB #

CAL CHK

UNIT #

ROOM # 2

READINGS ON UNSOUND PAINT ARE CIRCLED

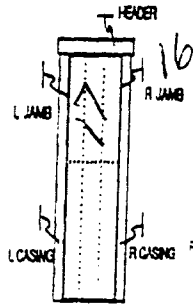


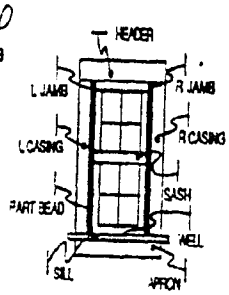
WALL A B C D

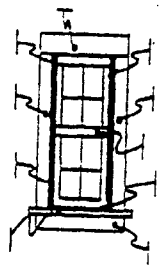
LEFT

RIGHT

CENTER







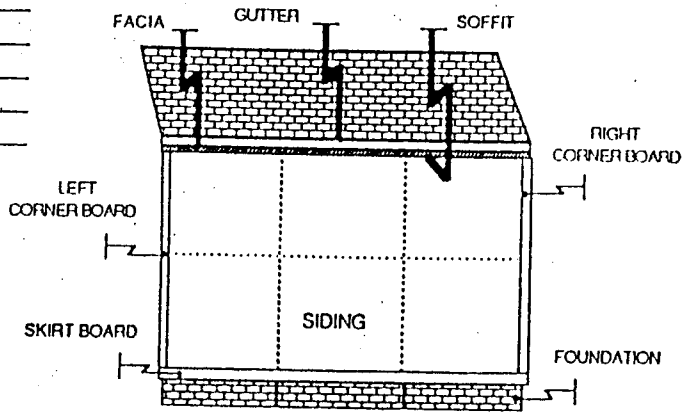
COMMENTS: All walls are of concrete blocks dark gray painted substrate the doors is of gray painted metal substrate the ceiling is of gray painted concrete substrate.

ADDRESS

JOB #

CAL CHK

UNIT #_____



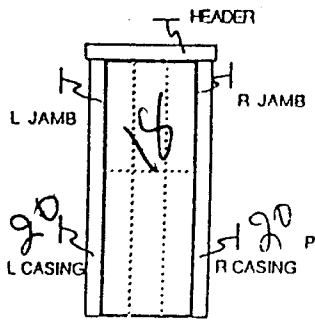
READINGS ON UNSOUND PAINT ARE CIRCLED

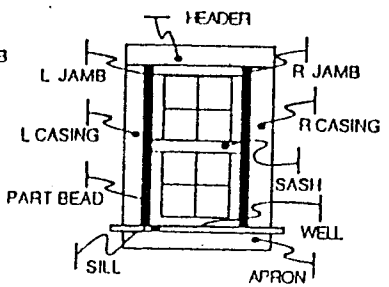
WALL (A) (B) (C) (D)

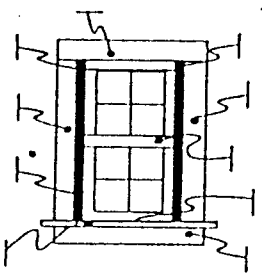
WALL (A) (B) (C) (D)
LEFT
RIGHT
CENTER

WALL (A) (B) (C) (D)
LEFT
RIGHT
CENTER

WALL (A) (B) (C) (D)
LEFT
RIGHT
CENTER







COMMENTS:

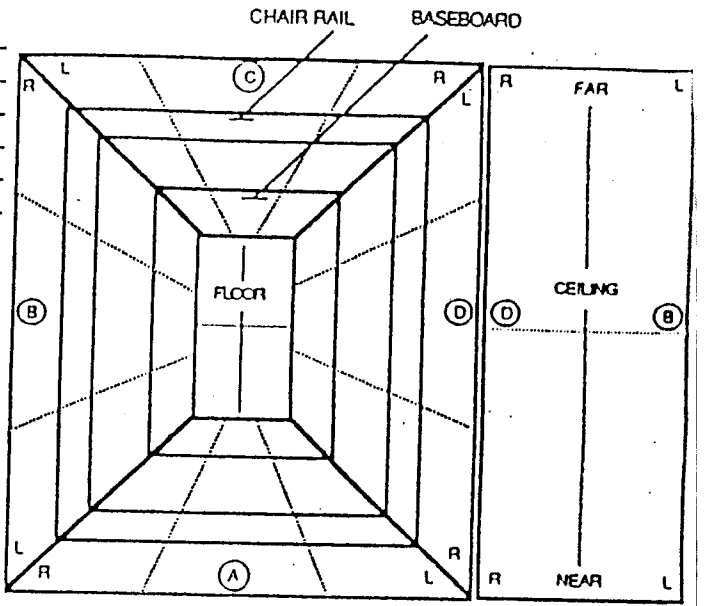
ADDRESS

JOB #

CAL CHK

UNIT #_____

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

APPENDIX D

Facility Name	Facility ID	Start Date	End Date	PCI/Days	AVG	Detector #	Location	Comments
Duluth	MN011/57	11/1/89	2/1/90	59.9	0.5	1539411	Chaulkboard	Dup-1539408
Duluth	MN011/57	11/1/89	2/1/90	113.9	1.2	1539430	Break room	
Duluth	MN011/57	11/1/89	2/1/90	240.3	2.6	1539446	Break room	
Duluth	MN011/57	11/1/89	2/1/90	81.3	0.9	1539448	Classroom 3	
Duluth	MN011/57	11/1/89	2/1/90	95.8	1	1539450	C Co Bulletin	
Duluth	MN011/57	11/1/89	2/1/90	88.6	1	1539455	Back room	
Duluth	MN011/57	11/1/89	2/1/90	125.5	1.4	153956	Front Office	
Duluth	MN011/57	11/1/89	2/1/90	50.6	0.5	1539458	Mail Room	
Duluth	MN011/57	11/1/89	2/1/90	119.3	1.3	1539460	Orderly Room	
Duluth	MN011/57	11/1/89	2/1/90	159.1	1.7	1539462	OMC C CO Bulletinboard	Dup-1540243
Duluth	MN011/57	11/1/89	2/1/90	95.8	1	1540218	Classroom 2	
Duluth	MN011/57	11/1/89	2/1/90	57.9	0.6	1540243	Orderly Room	
Duluth	MN011/57	12/5/00	4/17/01	278.3	2.1	4463233	497th Supply rm, mid W wall, 7'above flr	Dup-1539460
Duluth	MN011/57	12/5/00	4/17/01	148.3	1.1	4463248	497th Orderly rm, mid S wall, 7' above flr	
Duluth	MN011/57	12/5/00	4/17/01	300.4	2.3	4463242	AMSA Foremans Off, mid E wall, 7' above flr	
Duluth	MN011/57	12/5/00	4/17/01	137.4	1	4463184	AMSA Mat Off, mid W wall, 7' above flr	
Duluth	MN011/57	12/5/00	4/17/01	108.9	0.8	4463360	367th Orderly rm, end of wall divider, 7' above flr	
Duluth	MN011/57	12/5/00	4/17/01	141.8	1.1	4463364	368th Ops rm, mid W wall, 7' above flr	

APPENDIX E

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

ISO/IEC GUIDE 25:1990
ISO 9002:1987

Certificate of Accreditation

DEPARTMENT OF COMMERCE * UNITED STATES OF AMERICA *

A.E.S.L. ENVIRONMENTAL LABORATORY
TEMPE, AZ

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results. Accreditation is awarded for specific services, listed on the Scope of Accreditation for:

BULK ASBESTOS FIBER ANALYSIS

March 31, 2001
Effective through

David F. Alderman
For the National Institute of Standards and Technology

NVLAP Lab Code: 200303-0

NVLAP-01 (11-96)

STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES

ENVIRONMENTAL LABORATORY CERTIFICATION

is hereby granted to

A.E.S.L. ENVIRONMENTAL LABORATORY

800 NORTH MARY STREET

TEMPE, ARIZONA

to conduct analyses of environmental samples as specified in the "List of Approved Fields of Testing and Analytes" which accompanies this Certificate.

This Certificate is granted in accordance with provisions of Section 1010, et seq. (New Section 100825) of the Health and Safety Code.

Certificate No.: 2345

Expiration Date: 01/31/2003

Issued on: 01/01/2001
at Berkeley, California,
subject to forfeiture or revocation.

George C. Kulasingam, Ph.D.
Manager
Environmental Laboratory Accreditation Program

APPENDIX F

EPA Course Approval Number
RNTC99-004 Rev. 2

RADALINK™

Is pleased to present this

Certificate of Achievement

To

Narciso Martinez

In recognition of the successful completion of
The Radon Measurement Operators Training Course
October 9th & 10th, 2001 in Chicago, IL

Approved for
16 hours of NEHA Category I Continuing Education Credit &
13 hours of ASHI Continuing Education Credit

Granted on This Tenth Day of October, 2001

Dallas L. Jones

Dallas L. Jones - Instructor

Terry Howell

Terry Howell - President

MDH

ASBESTOS MANAGEMENT PLANNER

Certified by:
State of Minnesota
Department of Health
Expires: 09/20/2002

Narciso I Martinez
2405 NW 46th Terr
Gainesville, FL 32606

Commissioner of Health

No. AM8506 Issued: 10/01/2001

MDH

ASBESTOS INSPECTOR

Certified by:
State of Minnesota
Department of Health
Expires: 09/20/2002

Narciso I Martinez
2405 NW 46th Terr
Gainesville, FL 32606

Commissioner of Health

No. AI8506 Issued: 10/01/2001

APPENDIX G

AC I	CITY	STAT	FAC TYP	YEAR		BLD	ROOM	LOCATION 1	LOCATION 2	LN F	SQ FT	YEA	DATE	SAMPLE	RESULTS
MN011	DULUTH	MN	USARC	1962	G		BOILER ROOM	CAPSULATED, HOT WTR HTR	GRAY ELBOW		2	1994	30 JUN 94	22494	8% CHRY, 2% AMO
MN011	DULUTH	MN	USARC	1962	G		BOILER ROOM, SOUTH	ENCAPSULATED, JUNE 94	WHITE VALVE	2		1994	30 JUN 94	22594	15% CHRY, 3% AMO
MN011	DULUTH	MN	USARC	1962	G		BOILER ROOM, NORTH	ENCAPSULATED, CIRC PUMP	WHITE ELBOW	2		1994	30 JUN 94	22694	10% CHRY
MN011	DULUTH	MN	USARC	1962	G		BOILER ROOM	GENERAL AREA				1994	27 JUN 94	22794	<0.001 F/CC
MN011	DULUTH	MN	USARC	1962	G		BOILER ROOM	BREATHING ZONE				1994	27 JUN 94	22894	0.014 F/CC
MN011	DULUTH	MN	USARC	1962	G		ROOF, BLACK	FLASHING			792	1994	30 JUN 94	22994	4% CHRY
MN011	DULUTH	MN	USARC	1962	G		ROOF, BLACK	FIRING RANGE			2250	1994	30 JUN 94	23094	NONE
MN011	DULUTH	MN	USARC	1962	G		ROOF, BLACK	built-up			14425	1994	30 JUN 94	23194	NONE
MN011	DULUTH	MN	USARC	1962	G		ROOF/CHIMNEY/TOP	white mat., transite				1994	30 JUN 94	23294	55% CHRY
MN011	DULUTH	MN	USARC	1962	G		BOILER ROOM	potable hot water	GRAY ELBOW		2	1994	30 JUN 94	23394	<1% CHRY
MN011	DULUTH	MN	USARC	1962	G		HALLWAY	hite steam pipe fitting		3		1994	30 JUN 94	23494	NONE
MN011	DULUTH	MN	USARC	1962	G		HALLWAY	white steam pipe		40		1994	30 JUN 94	23594	NONE
MN011	DULUTH	MN	USARC	1962	G		Room 19, 23	brown floor tile, 9x9			2259	1994	30 JUN 94	23694	10% CHRY
MN011	DULUTH	MN	USARC	1962	G		HALL,20,11,14,24,25,16	brown 12"x12" TILE			1690	1994	30 JUN 94	23794	NONE
MN011	DULUTH	MN	USARC	1962	G		HALLWAY	white, heat pipe		60		1994	30 JUN 94	23894	NONE
MN011	DULUTH	MN	USARC	1962	G		DRILLHALL & HALLWAY	lt brown floor tile,9x9			240	1994	30 JUN 94	23994	3% CHRY
MN011	DULUTH	MN	USARC	1962	G		BOILER ROOM	WATER INTAKE	GRAY ELBOWS	2		1994	30 JUN 94	24194	<1% CHRY

Duluth Asbestos Report

Dated 1994

Facility Name	Facility ID	Start Date	End Date	PCI/Days	AVG	Detector #	Location	Comments
Duluth	MN011/57	11/1/89	2/1/90	59.9	0.5	1539411	Chaulkboard	Dup-1539408
Duluth	MN011/57	11/1/89	2/1/90	113.9	1.2	1539430	Break room	
Duluth	MN011/57	11/1/89	2/1/90	240.3	2.6	1539446	Break room	
Duluth	MN011/57	11/1/89	2/1/90	81.3	0.9	1539448	Classroom 3	
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Duluth	MN011/57	11/1/89	2/1/90	88.6	1	1539455	Back room	
Duluth	MN011/57	11/1/89	2/1/90	125.5	1.4	153956	Front Office	
Duluth	MN011/57	11/1/89	2/1/90	50.6	0.5	1539458	Mail Room	
Duluth	MN011/57	11/1/89	2/1/90	119.3	1.3	1539460	Orderly Room	
Duluth	MN011/57	11/1/89	2/1/90	159.1	1.7	1539462	OMC C CO Bulletinboard	Dup-1540243
Duluth	MN011/57	11/1/89	2/1/90	95.8	1	1540218	Classroom 2	
Duluth	MN011/57	11/1/89	2/1/90	57.9	0.6	1540243	Orderly Room	Dup-1539460
Duluth	MN011/57	12/5/00	4/17/01	278.3	2.1	4463233	497th Supply rm, mid W wall, 7'above flr	
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Duluth	MN011/57	12/5/00	4/17/01	300.4	2.3	4463242	AMSA Foremans Off, mid E wall, 7' above flr	
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Duluth	MN011/57	12/5/00	4/17/01	108.9	0.8	4463360	367th Orderly rm, end of wall divider, 7' above flr	
Duluth	MN011/57	12/5/00	4/17/01	141.8	1.1	4463364	368th Ops rm, mid W wall, 7' above flr	

MN USARC PCB REVIEW

Facility Name	Facility ID	Facility Address	Facility Zipcode	Utility Name	Utility Address	Utility Zipcode	Utility Telephone
Arden Hills	MN001	4555 N Lexington Ave	55126	NSP, Ulma Allen-Webb	Minneapolis		330 5956
Brainerd	MN002	310 NE 10th Ave	56401-0468	Brainerd Public Utilities	Box 373	56401-0373	218/828-7332
Buffalo	MN004	900-8th St NE	55313-6013	City of Buffalo Electric	212 Central Ave	55313	612/682-1091
Cambridge	MN006	540-6th Ave NW	55008-1037	East Central Electric			612/689-1171
Cannon Falls	MN008	710 E State St	55009-2224	NSP			
Duluth, AMSA 25	MN057	1503 S. Lavis St	55801/55802	MN Light/Power	30 West Superior St	55802	218/722-2625
Faribault, AMSA 111	MN056	2119 Hwy 60	55021	NSP			
Fergus Falls	MN015	813 Industrial Blvd	56537-1250	Otertail Power	216 Cascade Ave S	56538-0747	218/736-8947
Ft. Snelling	MN035	505-503 Roeder Circle	55111	NSP			
Ft Snell, AMSA 22	MN055	528-511 Constitution Ave	55111	NSP			
I Falls	MN032	1604-8 d Ave W	56649-3525	MN Light/Power	30 West Superior St.	55313	218/722-2625
LeSeuer*	MN017	829 Tuttl St	56058	Le Municipal Utility			612/665-3336
Mankato	MN018	1650 Pohl Rd	56001-0022				507/281-6008
Marshall	MN020	Hwy 59 N	56258-5060	Mar Municapl Utility			507/537-7006
New Prague	MN023	301 Lexington Ave	56071-0082	NP Utility Commission	303 E Main St	56071	612/758-4447
Paynesville	MN024	521 W Main St	56362-0083	NSP			
Rochester, AFRC-NG	MN026	1715 Maslon Rd SE	55904-5786	Roch Public Works			507/2801540
R&U	MN038	700 Firestation Rd	55111-4012	NSP			
Roseau	MN030	Hwy 11 W	56751-0006	Minkota Electric?			
St. Cloud, AFRC-NG	MN033	1710 N 8th	56301-2089				
St Joseph, AMSA 101	MN034	30862 Co Rd 133	56374-0100	Stearns Electric Assoc			320/259-6601
Wabasha	MN042	100 Hwy 60, Box 60	55981-0069	City of Wabasha	900 E Hiawatha Dr	55981	612/565-4566
Walker	MN043	Highland Ave/Division St	56484-0940	Hanson Ele/Service	Grand Forks, ND	218/773-2416	218/773-7357
Willmar	MN044	613 Hwy 71 N	56201-2195	Wil Mun Utility Comm			612/235-4422
Winona	MN045	302 E Sabrina St	55987-5393	City of Winona	202 Lafayette St	5598-0378	612/457-8262
Winthrop	MN047	602 N Brown Ave	55396-1005	Winthrop Utility			507/647-5305
Worthington	MN048	1012 Milton Ave	56187-0241	West Public Utilities	318-9th St	56187-0468	507/372-8580
*Italics-closed facility							

EFAR 2005

DEPARTMENT OF THE ARMY
HEADQUARTERS, 416TH ENGINEER COMMAND
FACILITIES ENGINEER GROUP
10 S. 100 SOUTH FRONTAGE ROAD
DARIEN, IL 60561-1780

ENVIRONMENTAL FACILITY ASSESSMENT REPORT

FOR

INSTALLATION NUMBER: MN006

Cambridge Memorial USARC
540 5th Avenue NW
Cambridge, MN 55008-1037

88th Regional Readiness Command

Evaluated On
01 March 2005

PREPARED BY:
Minneapolis Facility Engineering Team #4
FACILITY ENGINEER CENTER- NORTHWEST
1426 South M Street
Fort McCoy, WI 54656-5141

Environmental Summary.

05 March 2005

1. An external environmental compliance assessment was conducted at the Cambridge Memorial USARC and OMS on 01 March, 2005. Valerie Vultaggio from the 704th Chemical Company Det. 1 accompanied the Minneapolis FET providing access to facility.

No serious environmental issues were identified on the site. Ten findings were identified for the 2 buildings located on the facility. Four findings were administrative documentation and environmental survey related. The remaining six findings were minor waste labeling and storage issues. The existing flammable/combustible storage is unserviceable and should be replaced this year. The unit may request help from their State Environmental Manager to address these issues.

At the northwest corner of the OMS there was severe water damage that is causing mold problems on the interior and brick failure on the exterior. This issue should be addressed immediately.

Areas of concern needing corrective actions/improvements:

a. Environmental training.
b. Environmental documentation.
c. Ensure that all hazardous materials are labeled and stored in an appropriate fashion.
d. Identify items with expired shelf life for disposal (Paints, POL's etc.).
e. Properly secure all fire extinguishers and compressed gas cylinders.
f. Inadequate flammable/combustible storage.

2. Work with your state environmental manager (SEM) to implement the Installation Corrective Action Plan (ICAP). Complete corrective action efforts with closure of actions to your SEM within 45 days following completion of the assessment.

//SIGNED//
WILLIAM W. SCHERLING
CPT, EN
FET #4 Environmental Engineer

Cc: ASG or MSC
Facility Manager
88th RSC Program Manager

3/5/2005 ECAS MN006-001 - CAMBRIDGE
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: CAMBRIDGE MEMORIAL USARC

TYPE: USARC (MB)
POINT OF CONTACT:
FACILITY NUMBER: MN006-001

REFERENCE: FTSnellFET-001
DATE 03/05/2005
PROTOCOL: Other Environmental Issues
TENANT: No
OWNERSHIP:

SUMMARY
F01: Facility Manager needs required training.

DETAILS:
Facility Manager has completed ECO Class, but has not yet received the 32 hr HM/HW training. There are no other personnel requiring training at this location.

REQUIREMENTS:
Facilities are required to train the personnel in pollution prevention.

REGULATORY CITATION:
(DOD Memorandum, Objective 1, Subobjective 1)

ECAS CODE: O4.001.03.R

ROOT CAUSE: CM04 Management functions within the organizational structure are not afforded appropriate priority to support the environmental program ensuring mission readiness.

JUSTIFICATION:
HM/HW training for Facility Managers should be made a priority.

3/5/2005 ECAS MN006-001 - CAMBRIDGE
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: CAMBRIDGE MEMORIAL USARC

TYPE: USARC (MB)
POINT OF CONTACT:
FACILITY NUMBER: MN006-001

REFERENCE: FTSnellFET-001
DATE 03/05/2005
PROTOCOL: Other Environmental Issues
TENANT: No
OWNERSHIP:

ENVIRONMENTAL THREAT: Unlikely **RATING:** Low

IMPACT ON READINESS: Unlikely

REOCCURRING ISSUE: No previous finding

REGULATORY ACTION: No regulatory NOV is likely

PREVIOUS FINDING: No **PREVIOUS REGULATORY ACTION:** No

EXPLAIN:

ESTIMATED COST: < $500

CORRECTIVE ACTION:

F01: 32 hr HM/HW training has been identified as being available and Facility Manager should make arrangements to attend.

POLLUTION PREVENTION OPTIONS:

Provide pollution prevention training for facility personnel.

Date Contacted RSC: _____ **RSC POC:** _____

RSC Guidance: _____

Assessor: _____

3/5/2005 ECAS MN006-001 - CAMBRIDGE
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: CAMBRIDGE MEMORIAL USARC

TYPE: USARC (MB)
POINT OF CONTACT:
FACILITY NUMBER: MN006-001

REFERENCE: FTSnellFET-004
DATE 03/05/2005
PROTOCOL: Other Environmental Issues
TENANT: No
OWNERSHIP:

SUMMARY

F04: Facility does not currently participate in a recycling program (paper, cardboard, aluminum cans).

3/5/2005 ECAS MN006-001 - CAMBRIDGE
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: CAMBRIDGE MEMORIAL USARC	**REFERENCE:** FTSnellFET-004
TYPE: USARC (MB)	**DATE** 03/05/2005
POINT OF CONTACT:	**PROTOCOL:** Other Environmental Issues
FACILITY NUMBER: MN006-001	**TENANT:** No
	OWNERSHIP:

DETAILS:
Facility does not currently participate in a recycling program (paper, cardboard, aluminum cans. Current refuse collection contract does not support recycling although it is supported by the community.

REQUIREMENTS:
Army Reserve commands are required to establish a Pollution Prevention Program to implement the Pollution Prevention Plan.

REGULATORY CITATION:
(AR 200-1, para 10-3a(2)) [January 1997]

ECAS CODE: O4.001.14.R

ROOT CAUSE: OO03 Compliance is dependent upon external entity action.

JUSTIFICATION:
Current refuse collection contract does not support recycling.

3/5/2005 ECAS MN006-001 - CAMBRIDGE
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: CAMBRIDGE MEMORIAL USARC

TYPE: USARC (MB)
POINT OF CONTACT:
FACILITY NUMBER: MN006-001

REFERENCE: FTSnellFET-004
DATE 03/05/2005
PROTOCOL: Other Environmental Issues
TENANT: No
OWNERSHIP:

ENVIRONMENTAL THREAT: Unlikely **RATING:** Low

IMPACT ON READINESS: Unlikely

REOCCURRING ISSUE: No previous finding

REGULATORY ACTION: No regulatory NOV is likely

PREVIOUS FINDING: No **PREVIOUS REGULATORY ACTION:** No

EXPLAIN:

ESTIMATED COST: < $500

CORRECTIVE ACTION:

F04: Current refuse collection contract does not support recycling. Contract will soon expire. The new contract should include recycling support.

POLLUTION PREVENTION OPTIONS:

Develop an integrated pollution prevention program that will ensure that wastes are minimized to the fullest extent, recycling and buying recycled products is promoted, and releases to the environment are reduced.

Date Contacted RSC: _____ **RSC POC:** _____

RSC Guidance: _____

Assessor: _____

3/5/2005 ECAS MN006-001 - CAMBRIDGE
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: CAMBRIDGE MEMORIAL USARC

TYPE: USARC (MB)
POINT OF CONTACT:
FACILITY NUMBER: MN006-001

REFERENCE: FTSnellFET-005
DATE 03/05/2005
PROTOCOL: Hazardous Material
TENANT: No
OWNERSHIP:

SUMMARY

F05: Hazardous Material Handling Training documentation is not current. Training of Facility Manager and designated personnel need Hazardous Material training.

3/5/2005 ECAS MN006-001 - CAMBRIDGE
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: CAMBRIDGE MEMORIAL USARC	**REFERENCE:** FTSnellFET-005
TYPE: USARC (MB)	**DATE** 03/05/2005
POINT OF CONTACT:	**PROTOCOL:** Hazardous Material
FACILITY NUMBER: MN006-001	**TENANT:** No
	OWNERSHIP:

DETAILS:
Hazardous Material Training documentation is not current. Facility Manager and designated personnel need 32 hr HM/HW training.

REQUIREMENTS:
Personnel working with hazardous materials are required to be trained in their use and the potential hazards of such materials.

REGULATORY CITATION:
29 CFR 1910.1200(b)(3)(iii), 1910.1200(b)(4)(iii), 1910.1200(b)(6), and 1910.1200(h)

ECAS CODE: HM.010.02.TEAM

ROOT CAUSE: CM04 Management functions within the organizational structure are not afforded appropriate priority to support the environmental program ensuring mission readiness.

JUSTIFICATION:
The personnel need to be provided adequate training in a timely manner.

3/5/2005 ECAS MN006-001 - CAMBRIDGE
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: CAMBRIDGE MEMORIAL USARC
TYPE: USARC (MB)
POINT OF CONTACT:
FACILITY NUMBER: MN006-001

REFERENCE: FTSnellFET-005
DATE 03/05/2005
PROTOCOL: Hazardous Material
TENANT: No
OWNERSHIP:

ENVIRONMENTAL THREAT: Unlikely **RATING:** Low
IMPACT ON READINESS: Unlikely
REOCCURRING ISSUE: No previous finding
REGULATORY ACTION: No regulatory NOV is likely

PREVIOUS FINDING: No **PREVIOUS REGULATORY ACTION:** No
EXPLAIN:

ESTIMATED COST: < $500
CORRECTIVE ACTION:
F02: 32 hr HM/HW training has been identified as being available and designated personnel should make arrangements to attend.

POLLUTION PREVENTION OPTIONS:

Date Contacted RSC: _____ **RSC POC:** _____
RSC Guidance: _____
Assessor: _____

3/5/2005 ECAS MN006-001 - CAMBRIDGE
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: CAMBRIDGE MEMORIAL USARC
TYPE: USARC (MB)
POINT OF CONTACT:
FACILITY NUMBER: MN006-001

REFERENCE: FTSnellFET-006
DATE 03/05/2005
PROTOCOL: Hazardous Material
TENANT: No
OWNERSHIP:

SUMMARY
F06: Several containers with out-of-date hazardous materials.
DETAILS:
Expired transmission fluid, silicone and starter fluid stored in flammable storage cabinets in OMS.

3/5/2005 ECAS MN006-001 - CAMBRIDGE
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: CAMBRIDGE MEMORIAL USARC	**REFERENCE:** FTSnellFET-006
	DATE 03/05/2005
TYPE: USARC (MB)	**PROTOCOL:** Hazardous Material
POINT OF CONTACT:	**TENANT:** No
FACILITY NUMBER: MN006-001	**OWNERSHIP:**

REQUIREMENTS:
Containers of hazardous chemicals in the workplace are required to be labeled, tagged, or marked with specific information.

REGULATORY CITATION:
29 CFR 1910.1200(b)(3)(i), 1910.1200(b)(4)(i), 1910.1200(b)(5), and 1910.1200(f)(5) through 1910.1200(f)(7)

ECAS CODE: HM.001.03.TEAM

ROOT CAUSE: CM02 Management review process supporting, controlling, or improving daily/contract operations is absent or inadequate.

JUSTIFICATION:
Hazardous materials not inventoried to determine expired items.

3/5/2005 ECAS MN006-001 - CAMBRIDGE
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: CAMBRIDGE MEMORIAL USARC

TYPE: USARC (MB)
POINT OF CONTACT:
FACILITY NUMBER: MN006-001

REFERENCE: FTSnellFET-006
DATE 03/05/2005
PROTOCOL: Hazardous Material
TENANT: No
OWNERSHIP:

ENVIRONMENTAL THREAT: Unlikely **RATING:** Low

IMPACT ON READINESS: Unlikely

REOCCURRING ISSUE: No previous finding

REGULATORY ACTION: No regulatory NOV is likely

PREVIOUS FINDING: No **PREVIOUS REGULATORY ACTION:** No

EXPLAIN:

ESTIMATED COST: < $500

CORRECTIVE ACTION:

F05: Inventory hazardous materials to determine expired or unauthorized items. Arrange to turn-in expired or unauthorized items to DRMO.

POLLUTION PREVENTION OPTIONS:

Date Contacted RSC: _____ **RSC POC:** _____

RSC Guidance: _____

Assessor: _____

3/5/2005 ECAS MN006-001 - CAMBRIDGE
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: CAMBRIDGE MEMORIAL USARC

TYPE: USARC (MB)
POINT OF CONTACT:
FACILITY NUMBER: MN006-001

REFERENCE: FTSnellFET-007
DATE 03/05/2005
PROTOCOL: Hazardous Material
TENANT: No
OWNERSHIP:

SUMMARY

F07: Container labeled as hazardous material containing non-hazardous materials.

DETAILS:

Container in OMS labelled "Oily Rags" containing clean rags.

3/5/2005 ECAS MN006-001 - CAMBRIDGE
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: CAMBRIDGE MEMORIAL USARC	**REFERENCE:** FTSnellFET-007
TYPE: USARC (MB)	**DATE** 03/05/2005
POINT OF CONTACT:	**PROTOCOL:** Hazardous Material
FACILITY NUMBER: MN006-001	**TENANT:** No
	OWNERSHIP:

REQUIREMENTS:
Containers of hazardous chemicals in the workplace are required to be labeled, tagged, or marked with specific information.

REGULATORY CITATION:
29 CFR 1910.1200(b)(3)(i), 1910.1200(b)(4)(i), 1910.1200(b)(5), and 1910.1200(f)(5) through 1910.1200(f)(7)

ECAS CODE: HM.001.03.TEAM

ROOT CAUSE: CM02 Management review process supporting, controlling, or improving daily/contract operations is absent or inadequate.

JUSTIFICATION:
Container not labeled properly.

3/5/2005 ECAS MN006-001 - CAMBRIDGE
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: CAMBRIDGE MEMORIAL USARC

TYPE: USARC (MB)
POINT OF CONTACT:
FACILITY NUMBER: MN006-001

REFERENCE: FTSnellFET-007
DATE 03/05/2005
PROTOCOL: Hazardous Material
TENANT: No
OWNERSHIP:

ENVIRONMENTAL THREAT: Unlikely **RATING:** Low

IMPACT ON READINESS: Unlikely

REOCCURRING ISSUE: No previous finding

REGULATORY ACTION: No regulatory NOV is likely

PREVIOUS FINDING: No **PREVIOUS REGULATORY ACTION:** No

EXPLAIN:

ESTIMATED COST: < $500

CORRECTIVE ACTION:
F06: Insure that all containers are labeled properly.

POLLUTION PREVENTION OPTIONS:

Date Contacted RSC: _____ **RSC POC:** _____

RSC Guidance: _____

Assessor: _____

3/5/2005 ECAS MN006-001 - CAMBRIDGE
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: CAMBRIDGE MEMORIAL USARC

TYPE: USARC (MB)
POINT OF CONTACT:
FACILITY NUMBER: MN006-001

REFERENCE: FTSnellFET-008
DATE 03/05/2005
PROTOCOL: Hazardous Material
TENANT: No
OWNERSHIP:

SUMMARY
Compressed gas containers are improperly handled/stored.

DETAILS:
Fire extinguishers in Kitchen, Hallway, Supply Room, Vault Room and OMS not properly secured or stored.

3/5/2005 ECAS MN006-001 - CAMBRIDGE
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: CAMBRIDGE MEMORIAL USARC	**REFERENCE:** FTSnellFET-008
	DATE 03/05/2005
TYPE: USARC (MB)	**PROTOCOL:** Hazardous Material
POINT OF CONTACT:	**TENANT:** No
FACILITY NUMBER: MN006-001	**OWNERSHIP:**

REQUIREMENTS:
The in-plant storage, handling, and utilization of all compressed gases in cylinders, portable tanks, rail tankers, or motor vehicles must be done according to the Compressed Gas Association Pamphlet P-1-1-1965.

REGULATORY CITATION:
29 CFR 1910.101

ECAS CODE: HM.045.01.TEAM

ROOT CAUSE: IP02 Environmental management plans or procedures are not properly implemented.

JUSTIFICATION:
Arrangements not made to properly mount fire extinguishers and those not in use not properly stored.

3/5/2005 ECAS MN006-001 - CAMBRIDGE
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: CAMBRIDGE MEMORIAL USARC	**REFERENCE:** FTSnellFET-008
TYPE: USARC (MB)	**DATE** 03/05/2005
POINT OF CONTACT:	**PROTOCOL:** Hazardous Material
FACILITY NUMBER: MN006-001	**TENANT:** No
	OWNERSHIP:

ENVIRONMENTAL THREAT: Unlikely **RATING:** Low

IMPACT ON READINESS: Unlikely

REOCCURRING ISSUE: No previous finding

REGULATORY ACTION: No regulatory NOV is likely

PREVIOUS FINDING: No **PREVIOUS REGULATORY ACTION:** No

EXPLAIN:

ESTIMATED COST: < $500

CORRECTIVE ACTION:

F07: Need to coordinate with contractor to install proper brackets to hold fire extinguisher throughout facility. Those not in use should be stored in a box or other container to insure they can not fall over.

POLLUTION PREVENTION OPTIONS:

Date Contacted RSC: _____ **RSC POC:** _____

RSC Guidance: _____

Assessor: _____

3/5/2005 ECAS MN006-001 - CAMBRIDGE
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: CAMBRIDGE MEMORIAL USARC	**REFERENCE:** FTSnellFET-009
TYPE: USARC (MB)	**DATE** 03/05/2005
POINT OF CONTACT:	**PROTOCOL:** Hazardous Material
FACILITY NUMBER: MN006-001	**TENANT:** No
	OWNERSHIP:

SUMMARY

Metal flammable/combustible liquid storage cabinets do not meet structural requirements.

DETAILS:

Flammable storage building in motor pool area unserviceable. Excessive rust and deterioration along entire back of building. Deterioration has also caused grounding wire to disconnect.

3/5/2005 ECAS MN006-001 - CAMBRIDGE
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: CAMBRIDGE MEMORIAL USARC	**REFERENCE:** FTSnellFET-009
	DATE 03/05/2005
TYPE: USARC (MB)	**PROTOCOL:** Hazardous Material
POINT OF CONTACT:	**TENANT:** No
FACILITY NUMBER: MN006-001	**OWNERSHIP:**

REQUIREMENTS:
Storage cabinets used for the storage of flammable/combustible liquids must meet specific requirements.

REGULATORY CITATION:
(29 CFR 1910.106(d)(3)) [Revised April 1995]

ECAS CODE: HM.035.04.TEAM

ROOT CAUSE: OO02 Non-compliance is caused by weather, ambient conditions, or acts of God

JUSTIFICATION:
Buildup of snow and water along back of Flammable Storage building has caused significant deterioration and has rendered building unserviceable.

3/5/2005 ECAS MN006-001 - CAMBRIDGE
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: CAMBRIDGE MEMORIAL USARC	**REFERENCE:** FTSnellFET-009
TYPE: USARC (MB)	**DATE** 03/05/2005
POINT OF CONTACT:	**PROTOCOL:** Hazardous Material
FACILITY NUMBER: MN006-001	**TENANT:** No
	OWNERSHIP:

ENVIRONMENTAL THREAT: Unlikely **RATING:** Low

IMPACT ON READINESS: Unlikely

REOCCURRING ISSUE: No previous finding

REGULATORY ACTION: No regulatory NOV is likely

PREVIOUS FINDING: No **PREVIOUS REGULATORY ACTION:** No

EXPLAIN:

ESTIMATED COST: $2,501 - $10,000

CORRECTIVE ACTION:

F08: Flammable Storage building in motor pool needs to be replaced. Insure new building location has adequate drainage.

POLLUTION PREVENTION OPTIONS:

Date Contacted RSC: _____ **RSC POC:** _____

RSC Guidance: _____

Assessor: _____

3/5/2005 ECAS MN006-001 - CAMBRIDGE
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: CAMBRIDGE MEMORIAL USARC	**REFERENCE:** FTSnellFET-010
TYPE: USARC (MB)	**DATE** 03/05/2005
POINT OF CONTACT:	**PROTOCOL:** Hazardous Material
FACILITY NUMBER: MN006-001	**TENANT:** No
	OWNERSHIP:

SUMMARY

Flammable/combustible liquids are not stored in approved storage cabinets.

DETAILS:

Charcoal in furnace room and can of starting fluid in OMS not properly stored flammable cabinet.

3/5/2005 ECAS MN006-001 - CAMBRIDGE
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: CAMBRIDGE MEMORIAL USARC	**REFERENCE:** FTSnellFET-010
	DATE 03/05/2005
TYPE: USARC (MB)	**PROTOCOL:** Hazardous Material
POINT OF CONTACT:	**TENANT:** No
FACILITY NUMBER: MN006-001	**OWNERSHIP:**

REQUIREMENTS:
Storage cabinets used for the storage of flammable/combustible liquids must meet specific requirements.

REGULATORY CITATION:
(29 CFR 1910.106(d)(3)) [Revised April 1995]

ECAS CODE: HM.035.04.TEAM

ROOT CAUSE: IP02 Environmental management plans or procedures are not properly implemented.

JUSTIFICATION:
Flammable materials not identified and stored in approved storage cabinet.

3/5/2005 ECAS MN006-001 - CAMBRIDGE
ECAS DETAILED COMPLIANCE REPORT
US ARMY RESERVES

FACILITY: CAMBRIDGE MEMORIAL USARC

TYPE: USARC (MB)
POINT OF CONTACT:
FACILITY NUMBER: MN006-001

REFERENCE: FTSnellFET-010
DATE 03/05/2005
PROTOCOL: Hazardous Material
TENANT: No
OWNERSHIP:

ENVIRONMENTAL THREAT: Unlikely **RATING:** Low

IMPACT ON READINESS: Unlikely

REOCCURRING ISSUE: No previous finding

REGULATORY ACTION: No regulatory NOV is likely

PREVIOUS FINDING: No **PREVIOUS REGULATORY ACTION:** No

EXPLAIN:

ESTIMATED COST: < $500

CORRECTIVE ACTION:

F09: Insure that all flammable materials are identified and properly stored in approved cabinets.

POLLUTION PREVENTION OPTIONS:

Date Contacted RSC: _____ **RSC POC:** _____

RSC Guidance: _____

Assessor: _____

DEPARTMENT OF THE ARMY
HEADQUARTERS, 88TH REGIONAL READINESS COMMAND
506 ROEDER CIRCLE
FORT SNELLING, MINNESOTA 55111-4009

REPLY TO
ATTENTION OF

AFRC-CMN-EN

11 March 2005

MEMORANDUM FOR SEE DISTRIBUTION

SUBJECT: FY04 and 05 Environmental Compliance Assessment Program and Installation Corrective Action Plan

1. Due to the continuation of a large number unit deployments and high operational tempo within the Command, the 88th RRC Army Reserve Installation Management (ARIM) Environmental Division will not be writing deficiency reports for not meeting the 45 day suspense of implementing **Installation Corrective Action Plan** (ICAP) for FY04 and 05 assessments.

2. Units are still required to contact their State Environmental Manager (SEM) to coordinate and complete the ICAP for FY04 and 05. There are still a large number of FY04 Compliance Assessments remaining open to date with no (ICAP) implemented and coordinated with the SEM. It is **imperative** that the ICAP be implemented for your facility with follow-up actions until closure of all corrective actions to ensure there are no **repeat findings** from the previous year as well as possibly setting yourself up for a violation from a Regulator. To assist, enclosed is an example of a coordinated ICAP submitted by a facility to their SEM.

3. Please contact your SEM or the 88th Environmental Division Program Manager at (612) 713-3051 with any questions or concerns.

FOR THE COMMANDER:

KENNETH J. LENERS
LTC, EN
Regional Engineer

Encl

DISTRIBUTION:
Cdr, 88th RRG
Cdr, 643d ASG
Cdr, 644th ASG
Cdr, 645th ASG
Cdr, 646th ASG
Cdr, 300th MP Cmd
Cdr, 303d OD Gp
Cdr, 330th Med Bde
Cdr, 336th Trans Gp
Cdr, 84th Div
Cdr, 100th Div

CF: 88 RRC SEMs

DEPARTMENT OF THE ARMY
HEADQUARTERS, 397TH ENGINEER BATTALION (C)(M)
2005 KEITH STREET
EAU CLAIRE, WISCONSIN 54701-4798

AFRC-CMN-WIE

25 October 2004

MEMORANDUM FOR: Wisconsin State Environmental Manager, 88th RRC

SUBJECT: Installation Corrective Action Plan (ICAP) for W1032 Rusk Memorial USARC

1. On 18 August 2004, an Internal Compliance Assessment Inspection was conducted on the Rusk Memorial USARC, A/397th Engineers. The following are areas of concern needing corrective actions/improvements, deficiencies noted and actions taken by the unit:

a. Obtain MSDS sheets for all materials on-site or remove those hazardous materials that HAZCOM programs are not intended to cover. This includes but is not limited to custodial contractors.
- Notified contractors, updating MSDS folders.

b. Update spill and storm-water pollution prevention plans (SWPPP) and ensure all activities are aware of spill plans and SWPPPs.
- Environmental manager will update and e-mail Spill Plan and SWPPP.

c. Post emergency telephone numbers near hazardous waste storage areas.
- Posted emergency telephone numbers.

d. Appoint a 24 hour emergency contact.
- Posted emergency telephone numbers.

e. Housekeeping in outside needs improvement. Non-hazardous materials that have potential to contaminate storm-water runoff are stored outside in the military equipment park (MEP). Site needs two storm water sheds.
- Area cleaned up. Sheds requested through Command.

f. Hazardous materials improperly stored.
- General housekeeping, clean-up of OMS and HAZMAT areas.

o. No hazardous waste compliance officer or Environmental Compliance Officer (ECO) additional duty appointment letters on file.
- Notified Command of training and additional duty requirements.

h. Manage all aerosols and compressed gas cylinders that will no longer be used at Reserve Centers, as good material for transfer to a vendor that has certified the material usable for its intended purpose.

i. No grease trap in kitchen.
- Help Request submitted to Griffin Services R and U team to install/repair grease trap.

j. Aluminum cans not segregated from trash in Organizational Maintenance Shop (OMS).
- Retrain unit personnel. Separate containers in OMS.

k. Portable fire extinguishers are not inspected and maintained according to National Fire Protection Act (NFPA).
- Notified Griffin Services. Extinguishers inspected, but marked improperly.

l. Transformers not labeled to indicate Polychlorinated Biphenyl (PCB) concentration.
- State Environmental Manager will forward asbestos, lead, and PCB surveys to the unit when received from the 88 RRC.

m. Used batteries not labeled as universal waste.
- New labels requested through State Environmental Manager.

n. Large compressed gas cylinders not secured properly.
- Repaired, properly applied safety chain to cylinders

o. Used antifreeze labels need to be changed from "waste antifreeze" to "used antifreeze."
- New labels requested through State Environmental Manager.

p. The old firing range lacks closure documentation and clearance sampling. The room is used for exercise and storage.
- Documentation located in facility Environmental binder.

q. Personal protective gear (gloves) are stored inside parts washer tank.
- Removed gloves, retrain personnel.

r. Self help projects recur without National Environmental Policy Act (NEPA) review. Over the last few years the site has excavated drainage ditches and constructed a pavilion.
- State Environmental Manager will obtain the Integrated Natural Resources Management Plan (INRMP) to identify best management practices outlined in the plan for the adjacent wetlands. Notified Command of ongoing facility issues.

s. The facility is adjacent to wetlands. There is a drainage problem at the site. The unit has performed self help earth moving in the past which was done without NEPA. The activity was terminated but the drainage problem still exists.

-Environmental Manager to obtain the Integrated Natural Resources Management Plan (INRMP) to identify best management practices outlined in the plan for the adjacent wetlands.

t. A hydraulic lift pit, which needs oil pumped from the bottom of the pit, is used at the site. A scoping is needed for environmental & safety factors associated with operating.
- Safety-Kleen scheduled to clean pit.

u. Evidence of a brake cleaner was found. The State Environmental Manager is unaware of any brake cleaner activity or solvent use and must be informed so a determination can be made of waste generation regarding hazardous waste.
- Brake cleaner used by unit personnel for weapons cleaning. Retrain personnel, removed material from USARC.

v. A used five gallon plastic bucket without proper labeling is used to store used oil at the oil filter crusher.
- replaced container with properly labeled drum.

w. Dumpster is not secure from public dumping.
- Notified Command.

x. Ensure that forthcoming integrated natural resource management plans address the adjacent wetlands.
- State Environmental Manager will contact HQ 88th RRC Environmental for Cultural Resource and Natural Resource Plans.

2. Point of contact is SGT Mark Bentley or Mr. Carl Hintz at (866) 710-3981.

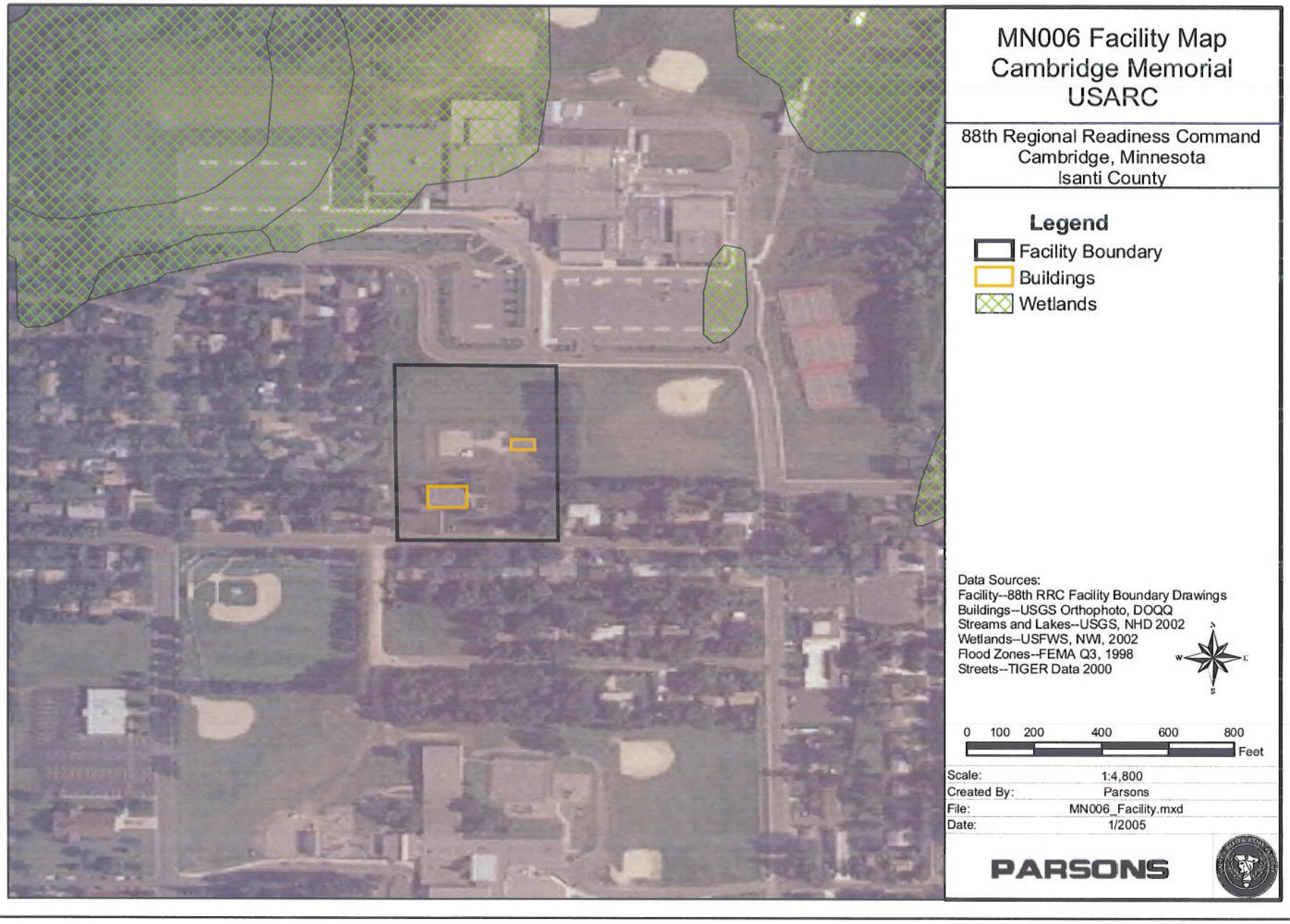
// SIGNED//
CARL HINTZ
SFC, USAR
Acting Commander

U.S. ARMY RESERVE 88TH REGIONAL READINESS COMMAND NATURAL RESOURCES FACT SHEET

Facility Location Information			
FACID: MN006	**INSNO:** 27815	**State:** Minnesota	**USGS Quad:** Cambridge
Facility Name: Cambridge Memorial USARC		**County:** Isanti	**Land Survey:**S29 T36N R23W
Type of Facility: USARC/OMS		**Address:** 540 Fifth Ave	**Acreage Calc.:** 4.16 **Real:** 4.00
Facility POC: Valerie Vultaggio		**City/State/Zip:** Cambridge, MN 55008	**Phone:** 763-689-1343
Ownership: The 88th RRC owns the land and 2 buildings that compose facility MN006.			**Survey Date:** None

Land Use	
On-site Land Use:	Site is 100% developed grounds. Site used for classroom training, and vehicle and equipment staging and maintenance.
Surrounding Land Use:	No site visit. Using aerial photograph only, North – school, South – baseball diamond, East- open field and residential, West – residential
Geologic Resources	
Physiographic Province:	Central Lowland
State Section:	Anoka Sand Plain subsection, Southeastern Minnesota and West-Central Wisconsin Savanna section
Geologic Formation:	Shale, sandstone, and dolomite (Cambrian/Ordovician)
Soil Map Unit:	Lino loamy fine sand (L), Anoka loamy fine sand, 2-7 % slopes. Both are hydric soils according to the Isanti County soil survey.
Topography:	Elevation range: 940-955 ft AMSL. Moderate topographic relief.
Water Resources	
Watershed:	Rum
Floodplains:	100-yr. floodplain located 1,000 ft north along Beckins Creek
On-Site Surface Water:	No site visit.
Off-site Surface Water:	Beckins Creek located 1,200 ft north of site.
Biological Resources	
Vegetation Communities/Land Cover:	63% maintained grass, 27% paved roads/parking, 5% buildings, 12% hardwood forest. No natural vegetated areas on site.
On-site Wetlands:	None according to NWI data
Off-site Wetlands:	Wetland located 500 ft northwest of site.
On-site Rare Species:	None according to MNDNR
On-site Potential Rare Species Habitat:	None
Off-site Rare Species:	State threatened Blanding's turtle and poor fen listed within 1-mile radius of site (Appendix A).
Federally Listed Species in County:	Bald eagle (T), gray wolf (T)
Other Sensitive Resources	
On-site Resources:	No site visit.
Off-site Resources:	No natural communities tracked by MNDNR on, adjacent, or within a 1-mile radius of site (Appendix A)

Notes: FACID-Facility ID, INSNO-Installation Number, E-federal endangered, T-federal threatened, C-federal candidate
Acreage Calc.-value calculated in GIS, Real-value given in The Real Property Detail Report.


MN006 Facility Map
Cambridge Memorial
USARC
88th Regional Readiness Command
Cambridge, Minnesota
Isanti County
Legend
Facility Boundary
Buildings
Wetlands
Data Sources:
Facility--88th RRC Facility Boundary Drawings
Buildings--USGS Orthophoto, DOQQ
Streams and Lakes--USGS, NHD 2002
Wetlands--USFWS, NWI, 2002
Flood Zones--FEMA Q3, 1998
Streets--TIGER Data 2000
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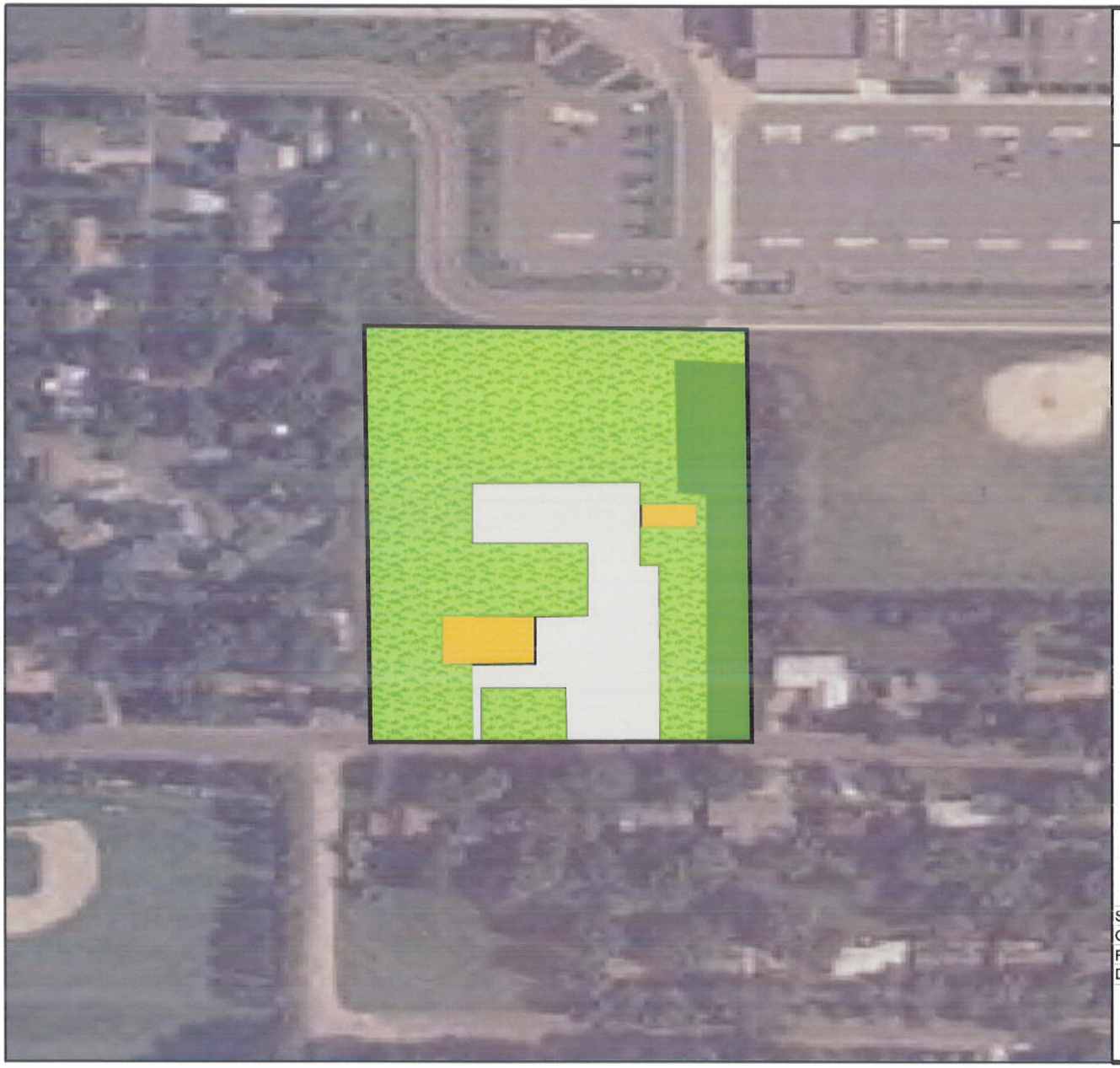
Feet
Scale: 1:4,800
Created By: Parsons
File: MN006_Facility.mxd
Date: 1/2005
PARSONS



MN006 Land Cover Map
Cambridge Memorial USARC

88th Regional Readiness Command
Cambridge, Minnesota
Isanti County

Legend

Facility Boundary

Land Cover

- Buildings
- Deciduous Forest
- Maintained Grass
- Paved Road/Parking

Data Sources:
Facility--88th RRC Facility Boundary Drawings
Buildings--USGS Orthophoto, DOQQ
Streams and Lakes--USGS, NHD 2002
Wetlands--USFWS, NWI, 2002
Flood Zones--FEMA Q3, 1998
Streets--TIGER Data 2000

N
W E
S

0 50 100 200 300 400
Feet

Scale:	1:2,400
Created By:	Parsons
File:	MN006_LandCover.mxd
Date:	1/2005

PARSONS

Appendix E

Regulatory Database Search Reports

The EDR Radius Map
with GeoCheck®

Cambridge Memorial USARC
540 FIFTH AVENUE NW
CAMBRIDGE, MN 55008

Inquiry Number: 01714247.38r

July 13, 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

540 FIFTH AVENUE NW
CAMBRIDGE, MN 55008

COORDINATES

Latitude (North):	45.577500 - 45° 34' 39.0''
Longitude (West):	93.230300 - 93° 13' 49.1''
Universal Tranverse Mercator:	Zone 15
UTM X (Meters):	482031.6
UTM Y (Meters):	5046914.5
Elevation:	960 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	45093-E2 CAMBRIDGE, MN
Most Recent Revision:	1983
West Map:	45093-E3 BRADFORD, MN
Most Recent Revision:	1983

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 ARMY RESERVE CENTER 540 5TH AVE NW CAMBRIDGE, MN 55008	LUST Complete Site Closed Date: 1/20/1993 UST	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

NPL ---------- National Priority List

EXECUTIVE SUMMARY

Proposed NPL ..... Proposed National Priority List Sites
Delisted NPL ..... National Priority List Deletions
NPL RECOVERY ..... Federal Superfund Liens
CERCLIS ..... Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP ..... CERCLIS No Further Remedial Action Planned
CORRACTS ..... Corrective Action Report
RCRA-TSDF ..... Resource Conservation and Recovery Act Information
RCRA-LQG ..... Resource Conservation and Recovery Act Information
ERNS ..... Emergency Response Notification System
HMIRS ..... Hazardous Materials Information Reporting System
US ENG CONTROLS ..... Engineering Controls Sites List
US INST CONTROL ..... Sites with Institutional Controls
DOD ..... Department of Defense Sites
FUDS ..... Formerly Used Defense Sites
US BROWNFIELDS ..... A Listing of Brownfields Sites
CONSENT ..... Superfund (CERCLA) Consent Decrees
ROD ..... Records Of Decision
UMTRA ..... Uranium Mill Tailings Sites
ODI ..... Open Dump Inventory
TRIS ..... Toxic Chemical Release Inventory System
TSCA ..... Toxic Substances Control Act
FTTS ..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
SSTS ..... Section 7 Tracking Systems
ICIS ..... Integrated Compliance Information System
PADS ..... PCB Activity Database System
MLTS ..... Material Licensing Tracking System
MINES ..... Mines Master Index File
FINDS ..... Facility Index System/Facility Registry System
RAATS ..... RCRA Administrative Action Tracking System

STATE AND LOCAL RECORDS

SHWS ..... Site Remediation System Database
MN PLP ..... Permanent List of Priorities
MN DEL PLP ..... Delisted Permanent List of Priorities
SWF/LF ..... Permitted Solid Waste Disposal Facilities
MN LCP ..... Closed Landfills Priority List
MN LS ..... List of Sites
LAST ..... Leaking Aboveground Storage Tanks
AST ..... Aboveground Storage Tanks
LIENS ..... Environmental Liens
BULK ..... Bulk Facilities Database
MN Spills ..... Spills Database
MN AGSPILLS ..... Department of Agriculture Spills
INST CONTROL ..... Site Remediation Section Database
MN VIC ..... Voluntary Investigation and Cleanup Program
DRYCLEANERS ..... Registered Drycleaning Facilities
BROWNFIELDS ..... Petroleum Brownfields Program Sites
CDL ..... Clandestine Drug Labs
MN Enforcement ..... Generators Associated with Enforcement Logs
MN HWS Permit ..... Active TSD Facilities
AIRS ..... Permit Contact List
TIER 2 ..... Tier 2 Facility Listing

EXECUTIVE SUMMARY

TRIBAL RECORDS

INDIAN RESERV Indian Reservations
INDIAN UST Underground Storage Tanks on Indian Land

EDR PROPRIETARY RECORDS

Manufactured Gas Plants EDR Proprietary Manufactured Gas Plants
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

RCRAInfo: 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 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 offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/09/2006 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
CAMBRIDGE ISANTI SCHOOL	***430 NW 8TH AVE***	***1/8 - 1/4 NE***	***2***	***8***

EXECUTIVE SUMMARY

STATE AND LOCAL RECORDS

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Minnesota Pollution Control Agency's Leak Sites list.

A review of the LUST list, as provided by EDR, and dated 03/01/2006 has revealed that there are 6 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
FORMER STARR SERVICE STATION Complete Site Closed Date: 11/18/2002	206 N MAIN ST	1/4 - 1/2 SE	A3	12
COMMUNITY STATE BANK Complete Site Closed Date: 12/29/1994	***205 N MAIN ST***	***1/4 - 1/2 SE***	***A4***	***13***
US WEST Complete Site Closed Date: 11/9/1990	117 S ASHLAND	1/4 - 1/2 SE	5	17
FORMER GILLESPIES GARAGE Complete Site Closed Date: 2/14/2005	115 N MAIN ST	1/4 - 1/2 SE	6	19
CAMBRIDGE PARKING LOT Complete Site Closed Date: 3/6/2003	ASHLAND AND 2ND AVE SW	1/4 - 1/2 SSE	7	20

Lower Elevation	Address	Dist / Dir	Map ID	Page
CAMBRIDGE ISANTI SCHOOL Complete Site Closed Date: 12/22/1989	***430 NW 8TH AVE***	***1/8 - 1/4 NE***	***2***	***8***

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Minnesota Pollution Control's Underground Storage Tank File.

A review of the UST list, as provided by EDR, and dated 03/01/2006 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

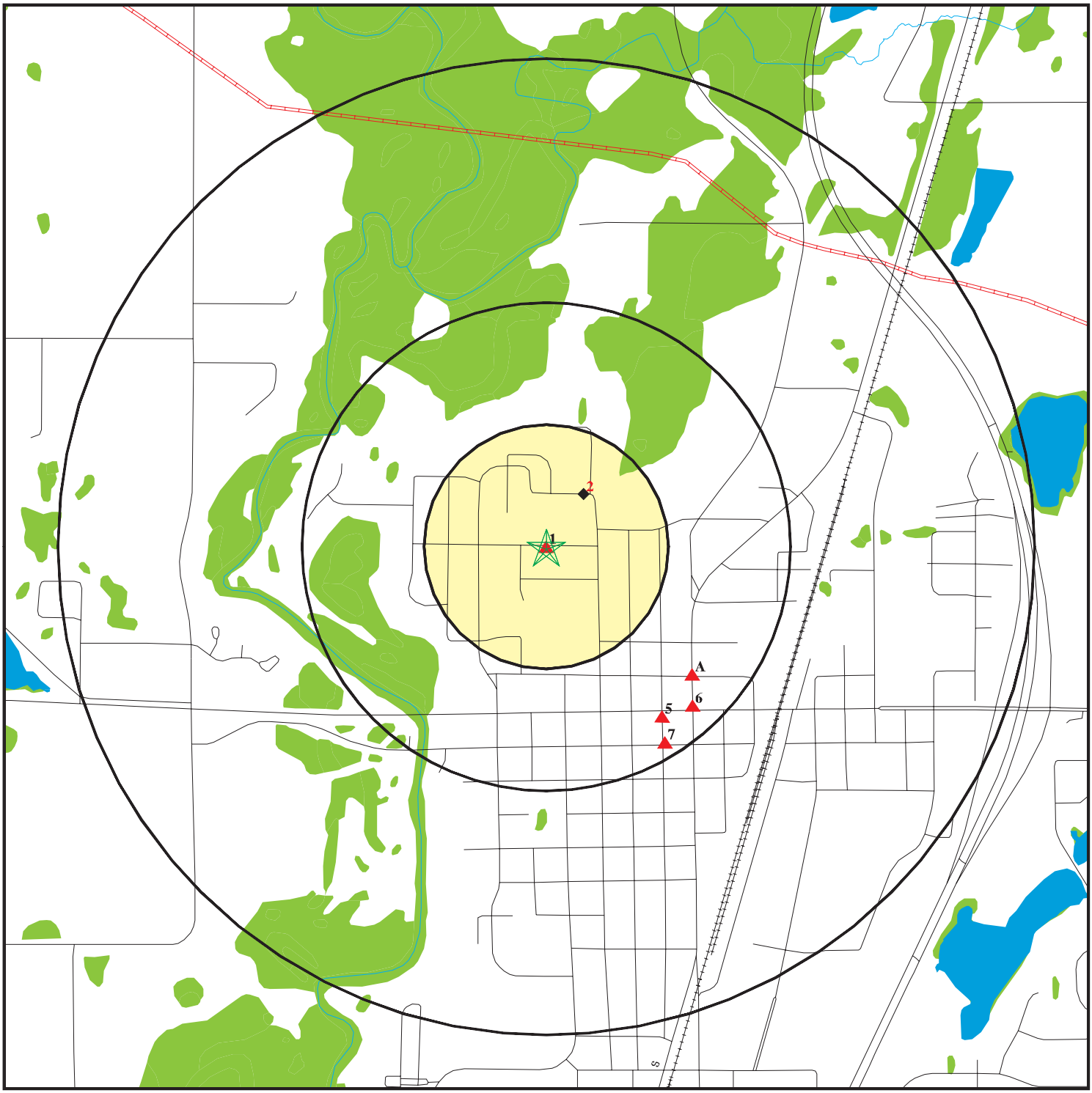
Lower Elevation	Address	Dist / Dir	Map ID	Page
CAMBRIDGE ISANTI SCHOOL	***430 NW 8TH AVE***	***1/8 - 1/4 NE***	***2***	***8***

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
ISANTI SOLVENT (AKA CHARLES SCHUM	SHWS
BERNARD RUMPEL PROPERTY	SHWS
BERNARD RUMPLE PROPERTY	CERCLIS, FINDS
MPCA ISANTI SOLVENT SITE	RCRA-SQG, FINDS, CERC-NFRAP
ALLEN SWANSON PROPERTY	CERC-NFRAP
T AND C SELF SERVE	LUST
UNITED POWER ASSOCIATION	LUST
CAMBRIDGE NORTH BULK PLANT	LUST
GWJ INVESTMENTS	LUST
CAMBRIDGE UNION 76	LUST
T&C SELF SERV	UST
WESTROMS CORNER- CONOCO	UST
FORMER GAS STATION- MAIN ST CAR	UST
UNITED POWER ASSN	UST, AST
WAL-MART (MURPHY OIL) SPUR #6525	UST
MURPHY OIL- SPUR #6811 WAL-MART	UST
FLEET GO INC	UST, AST
TOTAL PETROLEUM	UST
PURPLE HAWK COUNTRY CLUB	RCRA-SQG, FINDS, AST
KRUSE JOHN	RCRA-SQG, FINDS
BATTERY F 151ST FA NATIONAL GUARD	RCRA-SQG, FINDS
AMERICAN MOTORCYCLE	RCRA-SQG, FINDS
RYAN'S REPAIR	RCRA-SQG
VANPRO INC	RCRA-SQG, FINDS
CAMBRIDGE STATE HOSPITAL	RCRA-SQG, FINDS
SCOTSMAN PUBLISHING CO	RCRA-SQG, FINDS
SUNSHINE GRAPHICS	RCRA-SQG, FINDS
ISANTI SOLID WASTE TRANSFER STATIO	MN LS
MNDOT TH 47	MN VIC

OVERVIEW MAP - 01714247.38r

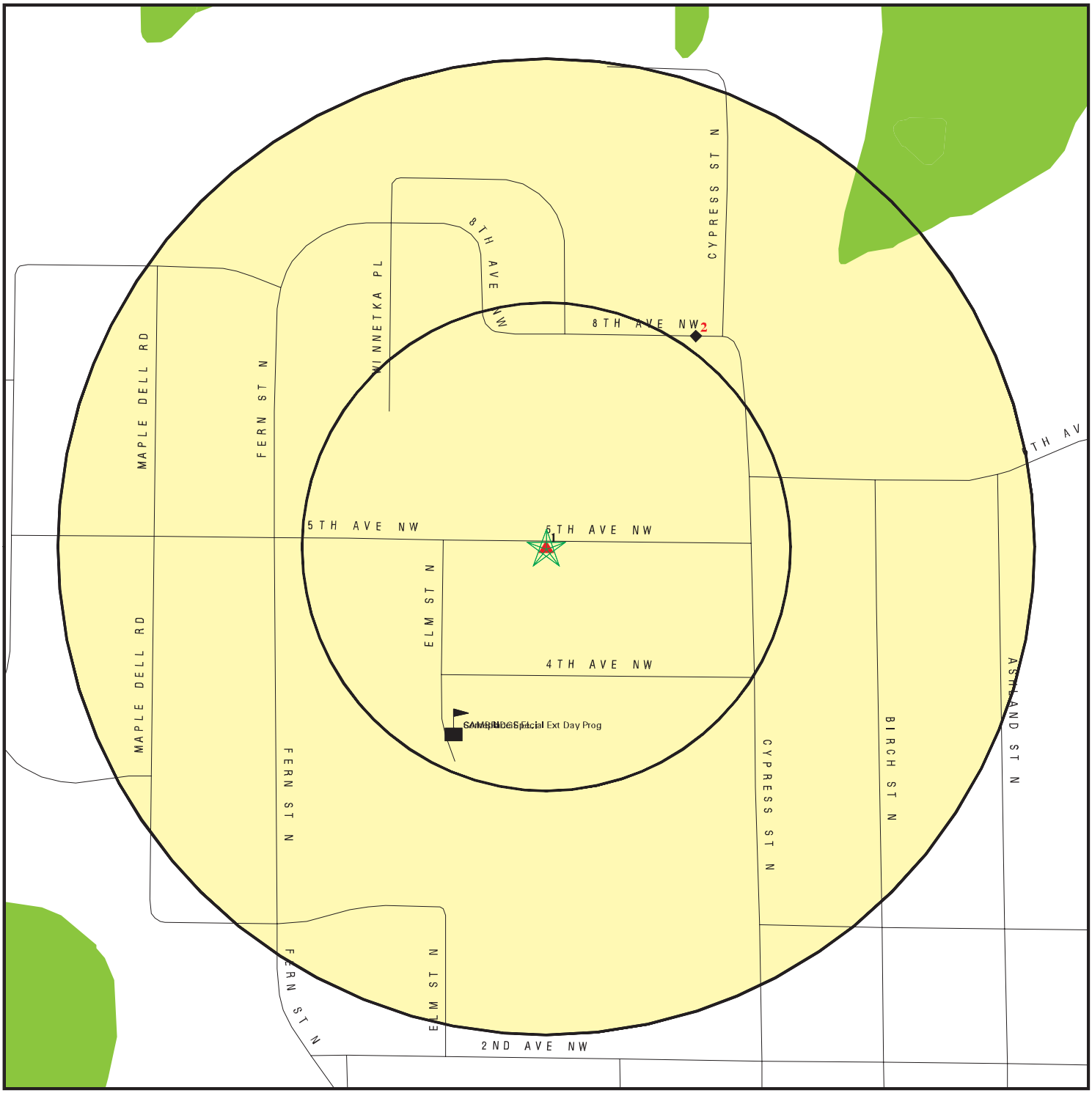


- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines
- National Wetland Inventory

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: Cambridge Memorial USARC	CLIENT: CH2M Hill
ADDRESS: 540 FIFTH AVENUE NW CAMBRIDGE MN 55008	CONTACT: Mary Beth Jacques INQUIRY #: 01714247.38r
LAT/LONG: 45.5775 / 93.2303	DATE: July 13, 2006

DETAIL MAP - 01714247.38r



- 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

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:	Cambridge Memorial USARC	CLIENT:	CH2M Hill
ADDRESS:	540 FIFTH AVENUE NW CAMBRIDGE MN 55008	CONTACT:	Mary Beth Jacques
LAT/LONG:	45.5775 / 93.2303	INQUIRY #:	01714247.38r
		DATE:	July 13, 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	0	NR	0
RCRA TSD		0.500	0	0	0	NR	NR	0
RCRA Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRA Sm. Quan. Gen.		0.250	0	1	NR	NR	NR	1
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		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
STATE AND LOCAL RECORDS								
State Haz. Waste		1.000	0	0	0	0	NR	0
MN PLP		1.000	0	0	0	0	NR	0
MN DEL PLP		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
MN LCP		0.500	0	0	0	NR	NR	0
MN LS		0.500	0	0	0	NR	NR	0
LUST	X	0.500	0	1	5	NR	NR	6
UST	X	0.250	0	1	NR	NR	NR	1
LAST		0.500	0	0	0	NR	NR	0
AST		0.250	0	0	NR	NR	NR	0
LIENS		TP	NR	NR	NR	NR	NR	0
BULK		0.250	0	0	NR	NR	NR	0
MN Spills		TP	NR	NR	NR	NR	NR	0
MN AGSPILLS		TP	NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INST CONTROL		0.500	0	0	0	NR	NR	0
MN VIC		0.500	0	0	0	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
BROWNFIELDS		0.500	0	0	0	NR	NR	0
CDL		TP	NR	NR	NR	NR	NR	0
MN Enforcement		TP	NR	NR	NR	NR	NR	0
MN HWS Permit		1.000	0	0	0	0	NR	0
AIRS		TP	NR	NR	NR	NR	NR	0
TIER 2		TP	NR	NR	NR	NR	NR	0
TRIBAL RECORDS								
INDIAN RESERV		1.000	0	0	0	0	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
EDR PROPRIETARY RECORDS								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0
EDR Historical Auto Stations		TP	NR	NR	NR	NR	NR	0
EDR Historical Cleaners		TP	NR	NR	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1 **US ARMY RESERVE CENTER** **LUST** **U003912579**
Target **540 5TH AVE NW** **UST** **N/A**
Property **CAMBRIDGE, MN 55008**

Actual:
960 ft.

LUST:

Facility Addr 2 :	Not reported
MN PCA ID :	218256
Leak ID :	5591
Leak Site :	Leak Site - Tank and Petroleum Contamination
File Archive Box :	04
File Archive Lot :	96/236
Soil Digout Date :	08/25/1992 00:00:00
Cubic Yards Excavated :	20
Cond Closure Date :	Not reported
Complete Site Closure Date :	**1/20/1993**
Contaminated Soils Remaining :	No
Enforcement Action Begin Date :	09/01/1992 00:00:00
Lust Trust Eligible :	No
Offsite Contamination :	Unknown
Reimbursement Awarded :	No
Release Discovered Date :	08/25/1992 00:00:00
Leak Reported Date :	8/25/1992
Std Letter Response Date :	Not reported
Surface Water Impact :	Unknown
Utility Project Flag :	No
TMSP Added :	12/4/1999 2:03:47 PM
TMSP Last Update :	5/4/2002 9:18:36 AM
Staff Id Last Update :	TANKS
Release From AST :	No
Release From UST :	No
Tank Registration Status Code :	U
VPIC Application Date :	Not reported
VPIC Acres :	Not reported
Township Name :	Not reported
Interest Type :	LS
Addr Id :	265300
Interest Phone :	6128891343
Interest Start Date :	1/23/1996
Interest End Date :	Not reported
Active Flag :	Not reported
Addr Id :	265300
State County Code :	30
Country Code :	USA
Foreign State :	Not reported
Foreign Zone :	Not reported
Active :	Y
Vapor Intrusion Checked Flag :	Not reported
Soil Gas Data Collected Flag :	Not reported
Soil Gas Action Level Flag :	Not reported
Sub Slab Sample Collected Flag :	Not reported
Indoor Air Collected Flag :	Not reported
Vapor Intrusion Action Flag :	Not reported
Vapor Intrusion Comments :	Not reported
Soil Gas Data Comments :	Not reported
Comments :	Not reported

LEAK CLEANUP ACTIONS:

Leak Action Seq Id :	Not reported
Leak Action Code :	Not reported
Leak Action Approval Date :	Not reported

US ARMY RESERVE CENTER (Continued) **U003912579**

Leak Action Begin Date :	Not reported
Leak Action End Date :	Not reported
Product Recovered Gallons :	Not reported
Product Removed Gallons :	Not reported
Treated Water Gallons :	Not reported
Tmsp Added :	Not reported
Tmsp Last Updt :	Not reported
Staff Id Last Updt :	Not reported
Corrective Reason Code :	Not reported

LEAK GW INFO:

Dw Supply Contam :	Not reported
Free Product Observed :	No
Free Product Thickness :	Not reported
Ground Water Contam :	No
Gw Cleanup Goal :	0
Gw Exceeds Cleanup Goal :	Not reported
Cleanup Goal Achieved :	Not reported
Water Supply Exceeds Ral :	Not reported
Well Type Code :	Not reported
Impacted Aquifer Code :	Not reported
Tmsp Added :	12/4/1999 2:07:30 PM
Tmsp Last Updt :	11/4/2003 12:57:07 PM
Staff Id Last Updt :	RSUCHAN
Mtbe Present Now :	Not reported
Mtbe Present Historically :	Not reported
Mtbe High Ug Per Liter Char :	Not reported
Mtbe High Ug Per Liter Numb :	Not reported
Mtbe High Level Date :	Not reported
Free Product At Close :	Not reported
Prot Flag :	Not reported
Sens Flag :	Not reported
PWS Well :	Not reported
Staff Id Ass :	Not reported

LEAK PRODUCT RELEASED:

Prod Released Sequence Id :	403710
Leak Product Code :	Fuel Oil 1 & 2
Tmsp Added :	12/27/1999 12:59:09 PM
Tmsp Last_updt :	5/4/2002 9:18:36 AM
Staff Id Last Updt :	TANKS

UST:

Program Interest Id :	196546
Fac Address 2 :	Not reported
Address Id :	265300
MPCA Tank Number :	001
Above/ Under Ground :	Under Ground
Serial Number :	Not reported
Date Added :	10/10/1999 10:56:56
Date Last Updated :	05/04/2002 08:04:05
Piping Cathodic Protection :	None
Piping Material Description :	Not reported
Tank Cathodic Protection :	None
Tank Stored Product :	Fuel Oil
Client Tank Number :	001
AST Base Material :	Not reported
Piping Material :	Steel/Iron
Second Contain Tank :	Not reported

US ARMY RESERVE CENTER (Continued) **U003912579**

Second Contain Pipe :	Not reported
Tank Construction Material :	Bare/Paint/Asph Coat Steel
Tank Dispenser Code :	2
Tank Status Code :	Removed
Tank Storage Capacity :	2000
Tank Registration Date :	11/06/1992 00:00:00
Unregulated Tank Registration Date :	Not reported
Compartmental Tank Flag :	Not reported
Heating Product Flag :	Yes
Haz Waste Generator Id :	Not reported
Product Replaced Date :	Not reported
Sludge Disposal Facility :	Not reported
Comments :	Not reported
Staff Id Who Did The Last Update :	TANKS
In Compliance :	Yes

Click this hyperlink while viewing on your computer to access additional MN UST detail in the EDR Site Report.

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2 **CAMBRIDGE ISANTI SCHOOL** **RCRA-SQG** **1004730944**
NE **430 NW 8TH AVE** **LUST** **MND985679182**
1/8-1/4 **CAMBRIDGE, MN 55008** **UST**
699 ft.

Relative:
Lower

Actual:
942 ft.

RCRAInfo:

Owner: CAMBRIDGE HIGH SCHOOL
(612) 689-2020

EPA ID: MND985679182

Contact: MARK EISENBACHER
(612) 689-6212

Classification: Conditionally Exempt Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

LUST:

Facility Addr 2 :	Not reported
MN PCA ID :	225573
Leak ID :	1836
Leak Site :	Leak Site - Tank and Petroleum Contamination
File Archive Box :	12
File Archive Lot :	94/372
Soil Digout Date :	10/10/1989 00:00:00
Cubic Yards Excavated :	10
Cond Closure Date :	Not reported
Complete Site Closure Date :	**12/22/1989**
Contaminated Soils Remaining :	No
Enforcement Action Begin Date :	11/21/1989 00:00:00
Lust Trust Eligible :	Yes
Offsite Contamination :	No
Reimbursement Awarded :	No
Release Discovered Date :	Not reported
Leak Reported Date :	10/10/1989
Std Letter Response Date :	Not reported
Surface Water Impact :	Unknown
Utility Project Flag :	No
TMSP Added :	12/4/1999 2:03:53 PM
TMSP Last Update :	5/4/2002 9:44:57 AM

CAMBRIDGE ISANTI SCHOOL (Continued) **1004730944**

Staff Id Last Update :	TANKS
Release From AST :	No
Release From UST :	No
Tank Registration Status Code :	F
VPIC Application Date :	Not reported
VPIC Acres :	Not reported
Township Name :	Not reported
Interest Type :	LS
Addr Id :	272539
Interest Phone :	6126894988
Interest Start Date :	12/13/1994 10:24:42 AM
Interest End Date :	Not reported
Active Flag :	Not reported
Addr Id :	272539
State County Code :	30
Country Code :	USA
Foreign State :	Not reported
Foreign Zone :	Not reported
Active :	Y
Vapor Intrusion Checked Flag :	Not reported
Soil Gas Data Collected Flag :	Not reported
Soil Gas Action Level Flag :	Not reported
Sub Slab Sample Collected Flag :	Not reported
Indoor Air Collected Flag :	Not reported
Vapor Intrusion Action Flag :	Not reported
Vapor Intrusion Comments :	Not reported
Soil Gas Data Comments :	Not reported
Comments :	Not reported

LEAK CLEANUP ACTIONS:

Leak Action Seq Id :	Not reported
Leak Action Code :	Not reported
Leak Action Approval Date :	Not reported
Leak Action Begin Date :	Not reported
Leak Action End Date :	Not reported
Product Recovered Gallons :	Not reported
Product Removed Gallons :	Not reported
Treated Water Gallons :	Not reported
Tmsp Added :	Not reported
Tmsp Last Updt :	Not reported
Staff Id Last Updt :	Not reported
Corrective Reason Code :	Not reported

LEAK GW INFO:

Dw Supply Contam :	Not reported
Free Product Observed :	No
Free Product Thickness :	Not reported
Ground Water Contam :	No
Gw Cleanup Goal :	0
Gw Exceeds Cleanup Goal :	Not reported
Cleanup Goal Achieved :	Not reported
Water Supply Exceeds Ral :	Not reported
Well Type Code :	Not reported
Impacted Aquifer Code :	Not reported
Tmsp Added :	12/4/1999 2:07:36 PM
Tmsp Last Updt :	11/4/2003 12:57:09 PM
Staff Id Last Updt :	RSUCHAN
Mtbe Present Now :	Not reported

CAMBRIDGE ISANTI SCHOOL (Continued) **1004730944**

Mtbe Present Historically :	Not reported
Mtbe High Ug Per Liter Char :	Not reported
Mtbe High Ug Per Liter Numb :	Not reported
Mtbe High Level Date :	Not reported
Free Product At Close :	Not reported
Prot Flag :	Not reported
Sens Flag :	Not reported
PWS Well :	Not reported
Staff Id Ass :	Not reported

LEAK PRODUCT RELEASED:

Prod Released Sequence Id :	403961
Leak Product Code :	Hydraulic Fluid
Tmsp Added :	12/27/1999 12:59:09 PM
Tmsp Last_updt :	5/4/2002 9:44:57 AM
Staff Id Last Updt :	TANKS

UST:

Program Interest Id :	196562
Fac Address 2 :	Not reported
Address Id :	272539
MPCA Tank Number :	002
Above/ Under Ground :	Under Ground
Serial Number :	Not reported
Date Added :	10/10/1999 10:57:04
Date Last Updated :	05/04/2002 08:04:08
Piping Cathodic Protection :	None
Piping Material Description :	Not reported
Tank Cathodic Protection :	None
Tank Stored Product :	Used Or Waste Oil
Client Tank Number :	002
AST Base Material :	Not reported
Piping Material :	Galvanized steel
Second Contain Tank :	Not reported
Second Contain Pipe :	Not reported
Tank Construction Material :	Bare/Paint/Asph Coat Steel
Tank Dispenser Code :	3
Tank Status Code :	Removed
Tank Storage Capacity :	1000
Tank Registration Date :	05/29/1986 00:00:00
Unregulated Tank Registration Date :	Not reported
Compartmental Tank Flag :	Not reported
Heating Product Flag :	Unknown
Haz Waste Generator Id :	Not reported
Product Replaced Date :	Not reported
Sludge Disposal Facility :	Not reported
Comments :	Not reported
Staff Id Who Did The Last Update :	TANKS
In Compliance :	No

Program Interest Id :	196562
Fac Address 2 :	Not reported
Address Id :	272539
MPCA Tank Number :	001
Above/ Under Ground :	Under Ground
Serial Number :	Not reported
Date Added :	10/10/1999 10:57:18
Date Last Updated :	05/04/2002 08:04:08

CAMBRIDGE ISANTI SCHOOL (Continued) **1004730944**

Piping Cathodic Protection :	None
Piping Material Description :	Not reported
Tank Cathodic Protection :	None
Tank Stored Product :	Fuel Oil
Client Tank Number :	001
AST Base Material :	Not reported
Piping Material :	Galvanized steel
Second Contain Tank :	Not reported
Second Contain Pipe :	Not reported
Tank Construction Material :	Bare/Paint/Asph Coat Steel
Tank Dispenser Code :	2
Tank Status Code :	Active
Tank Storage Capacity :	10000
Tank Registration Date :	05/29/1986 00:00:00
Unregulated Tank Registration Date :	Not reported
Compartmental Tank Flag :	Not reported
Heating Product Flag :	Yes
Haz Waste Generator Id :	Not reported
Product Replaced Date :	Not reported
Sludge Disposal Facility :	Not reported
Comments :	Not reported
Staff Id Who Did The Last Update :	TANKS
In Compliance :	Yes

Program Interest Id :	196562
Fac Address 2 :	Not reported
Address Id :	272539
MPCA Tank Number :	003
Above/ Under Ground :	Under Ground
Serial Number :	Not reported
Date Added :	10/10/1999 10:56:41
Date Last Updated :	05/04/2002 08:04:08
Piping Cathodic Protection :	4
Piping Material Description :	Not reported
Tank Cathodic Protection :	Not Needed
Tank Stored Product :	Used Or Waste Oil
Client Tank Number :	003
AST Base Material :	Not reported
Piping Material :	Fiberglass
Second Contain Tank :	Not reported
Second Contain Pipe :	Not reported
Tank Construction Material :	Fiberglass
Tank Dispenser Code :	1
Tank Status Code :	Active
Tank Storage Capacity :	560
Tank Registration Date :	12/22/1998 00:00:00
Unregulated Tank Registration Date :	Not reported
Compartmental Tank Flag :	Not reported
Heating Product Flag :	No
Haz Waste Generator Id :	Not reported
Product Replaced Date :	Not reported
Sludge Disposal Facility :	Not reported
Comments :	Not reported
Staff Id Who Did The Last Update :	TANKS
In Compliance :	Yes

CAMBRIDGE ISANTI SCHOOL (Continued) **1004730944**

Click this hyperlink while viewing on your computer to access additional MN UST detail in the EDR Site Report.

A3 **FORMER STARR SERVICE STATION** **LUST** **S105512665**
SE **206 N MAIN ST** **N/A**
1/4-1/2 **CAMBRIDGE, MN 55008**
2096 ft.

Site 1 of 2 in cluster A

Relative:
Equal

Actual:
960 ft.

LUST:

Facility Addr 2 :	Not reported
MN PCA ID :	234118
Leak ID :	14734
Leak Site :	Both Leak and Property Transfer Site
File Archive Box :	Not reported
File Archive Lot :	Not reported
Soil Digout Date :	Not reported
Cubic Yards Excavated :	Not reported
Cond Closure Date :	Not reported
Complete Site Closure Date :	**11/18/2002**
Contaminated Soils Remaining :	Unknown
Enforcement Action Begin Date :	05/23/2002 00:00:00
Lust Trust Eligible :	No
Offsite Contamination :	Unknown
Reimbursement Awarded :	No
Release Discovered Date :	05/08/2002 00:00:00
Leak Reported Date :	5/8/2002
Std Letter Response Date :	Not reported
Surface Water Impact :	Unknown
Utility Project Flag :	No
TMSP Added :	5/14/2002 1:14:49 PM
TMSP Last Update :	3/10/2004 2:19:28 PM
Staff Id Last Update :	SEWERT
Release From AST :	No
Release From UST :	Yes
Tank Registration Status Code :	F
VPIC Application Date :	Not reported
VPIC Acres :	Not reported
Township Name :	Not reported
Interest Type :	LS
Addr Id :	195333
Interest Phone :	Not reported
Interest Start Date :	5/14/2002
Interest End Date :	Not reported
Active Flag :	Not reported
Addr Id :	195333
State County Code :	30
Country Code :	USA
Foreign State :	Not reported
Foreign Zone :	Not reported
Active :	Y
Vapor Intrusion Checked Flag :	Not reported
Soil Gas Data Collected Flag :	Not reported
Soil Gas Action Level Flag :	Not reported
Sub Slab Sample Collected Flag :	Not reported
Indoor Air Collected Flag :	Not reported
Vapor Intrusion Action Flag :	Not reported
Vapor Intrusion Comments :	Not reported

FORMER STARR SERVICE STATION (Continued) **S105512665**

Soil Gas Data Comments : Not reported
Comments : Not reported

LEAK CLEANUP ACTIONS:
Leak Action Seq Id : Not reported
Leak Action Code : Not reported
Leak Action Approval Date : Not reported
Leak Action Begin Date : Not reported
Leak Action End Date : Not reported
Product Recovered Gallons : Not reported
Product Removed Gallons : Not reported
Treated Water Gallons : Not reported
Tmsp Added : Not reported
Tmsp Last Updt : Not reported
Staff Id Last Updt : Not reported
Corrective Reason Code : Not reported

LEAK GW INFO:
Dw Supply Contam : Not reported
Free Product Observed : Not reported
Free Product Thickness : Not reported
Ground Water Contam : Yes
Gw Cleanup Goal : Not reported
Gw Exceeds Cleanup Goal : Not reported
Cleanup Goal Achieved : Not reported
Water Supply Exceeds Ral : Not reported
Well Type Code : Not reported
Impacted Aquifer Code : Not reported
Tmsp Added : 5/14/2002 1:14:49 PM
Tmsp Last Updt : 11/4/2003 12:57:09 PM
Staff Id Last Updt : RSUCHAN
Mtbe Present Now : Not reported
Mtbe Present Historically : Not reported
Mtbe High Ug Per Liter Char : Not reported
Mtbe High Ug Per Liter Numb : Not reported
Mtbe High Level Date : Not reported
Free Product At Close : Not reported
Prot Flag : Not reported
Sens Flag : Not reported
PWS Well : Not reported
Staff Id Ass : Not reported

LEAK PRODUCT RELEASED:
Prod Released Sequence Id : 29608
Leak Product Code : Gasoline, Type Unknown
Tmsp Added : 6/24/2002 2:49:40 PM
Tmsp Last_updt : 6/24/2002 2:49:40 PM
Staff Id Last Updt : JMCCANN

A4 **COMMUNITY STATE BANK** **LUST** **S104168504**
SE **205 N MAIN ST** **MN Spills** **N/A**
1/4-1/2 **CAMBRIDGE, MN 55008**
2101 ft.

Site 2 of 2 in cluster A

Relative:
Equal

Actual:
960 ft.

LUST:
Facility Addr 2 : Not reported
MN PCA ID : 213820
Leak ID : 901
Leak Site : Leak Site - Tank and Petroleum Contamination

COMMUNITY STATE BANK (Continued) **S104168504**

File Archive Box :	30
File Archive Lot :	97/11
Soil Digout Date :	Not reported
Cubic Yards Excavated :	0
Cond Closure Date :	Not reported
Complete Site Closure Date :	**12/29/1994**
Contaminated Soils Remaining :	Yes
Enforcement Action Begin Date :	01/01/1901 00:00:00
Lust Trust Eligible :	Yes
Offsite Contamination :	Unknown
Reimbursement Awarded :	No
Release Discovered Date :	Not reported
Leak Reported Date :	12/27/1988
Std Letter Response Date :	Not reported
Surface Water Impact :	Unknown
Utility Project Flag :	No
TMSP Added :	12/4/1999 2:03:43 PM
TMSP Last Update :	7/25/2002 4:39:11 PM
Staff Id Last Update :	ADWORAK
Release From AST :	No
Release From UST :	No
Tank Registration Status Code :	F
VPIC Application Date :	Not reported
VPIC Acres :	Not reported
Township Name :	Not reported
Interest Type :	LS
Addr Id :	200276
Interest Phone :	6123894350
Interest Start Date :	9/3/1996 12:46:17 PM
Interest End Date :	Not reported
Active Flag :	Not reported
Addr Id :	200276
State County Code :	30
Country Code :	USA
Foreign State :	Not reported
Foreign Zone :	Not reported
Active :	Y
Vapor Intrusion Checked Flag :	Not reported
Soil Gas Data Collected Flag :	Not reported
Soil Gas Action Level Flag :	Not reported
Sub Slab Sample Collected Flag :	Not reported
Indoor Air Collected Flag :	Not reported
Vapor Intrusion Action Flag :	Not reported
Vapor Intrusion Comments :	Not reported
Soil Gas Data Comments :	Not reported
Comments :	Not reported

LEAK CLEANUP ACTIONS:

Leak Action Seq Id :	Not reported
Leak Action Code :	Not reported
Leak Action Approval Date :	Not reported
Leak Action Begin Date :	Not reported
Leak Action End Date :	Not reported
Product Recovered Gallons :	Not reported
Product Removed Gallons :	Not reported
Treated Water Gallons :	Not reported
Tmsp Added :	Not reported
Tmsp Last Updt :	Not reported

COMMUNITY STATE BANK (Continued) **S104168504**

Staff Id Last Updt : Not reported
Corrective Reason Code : Not reported

LEAK GW INFO:
Dw Supply Contam : Not reported
Free Product Observed : Not reported
Free Product Thickness : Not reported
Ground Water Contam : No
Gw Cleanup Goal : 0
Gw Exceeds Cleanup Goal : Not reported
Cleanup Goal Achieved : Not reported
Water Supply Exceeds Ral : Not reported
Well Type Code : Not reported
Impacted Aquifer Code : Not reported
Tmsp Added : 12/4/1999 2:07:27 PM
Tmsp Last Updt : 11/4/2003 12:57:06 PM
Staff Id Last Updt : RSUCHAN
Mtbe Present Now : Not reported
Mtbe Present Historically : Not reported
Mtbe High Ug Per Liter Char : Not reported
Mtbe High Ug Per Liter Numb : Not reported
Mtbe High Level Date : Not reported
Free Product At Close : Not reported
Prot Flag : Not reported
Sens Flag : Not reported
PWS Well : Not reported
Staff Id Ass : Not reported

LEAK PRODUCT RELEASED:
Prod Released Sequence Id : 401441
Leak Product Code : Gasoline, Type Unknown
Tmsp Added : 12/27/1999 12:59:07 PM
Tmsp Last_updt : 5/4/2002 9:02:29 AM
Staff Id Last Updt : TANKS

MN SPILLS:
Reported By: Not reported
Project Manager:
Product: Not reported
Incident Date: Not reported
Date Reported: Not reported
Amount Spilled: Not reported
Units: Not reported
Closure Date : Not reported
Cause Code : Not reported
Responsible Party Not reported
Initial Cause : Not reported
Priority: 4
Action Taken: Not reported
Incident: Not reported
Spill Cause: Not reported
Location: Not reported
Box: Not reported
Region: Not reported
Spill: Not reported
Report: Not reported
Project Mngr: Not reported
Respnbl Party: Not reported
Comments: Not reported

COMMUNITY STATE BANK (Continued) **S104168504**

Program Int Id :	169036
Township Name :	Not reported
Interest Type :	SP
State County Code :	30
Foreign State :	Not reported
Foreign Zone :	Not reported
Addr Id :	200276
Interest Phone :	Not reported
Preferred Id :	4434
Interest Start Date :	3/21/1996
Interest End Date :	Not reported
Active :	Not reported
Spill Closure Code :	**Not reported**
Sp Rep Code :	Not reported
Report Taken By Initials :	1612
Mpca Project Manager Initials :	3234
Spill Site Closure Date :	01/01/1996 00:00:00
Sp Rep Desc :	BRIAN GERMANDSON
Spill Date :	11/11/1900 00:00:00
Spill Reported Date :	12/27/1988 00:00:00
Init Cause Code :	Not reported
Init Cause Desc :	UST
Initial Source Code :	Not reported
Archive Lot :	Not reported
Archive Box :	Not reported
Tmsp Added :	3/21/1996
Tmsp Last Updt :	7/23/2004 4:23:54 PM
Staff Id Last Updt :	CMCLAIN
Rep Phone :	Not reported
Rep Name :	Not reported
Mpca Involvement :	Not reported
Rpt Taken By Duty Officer :	Not reported
Country Code :	USA
Public Affected :	Not reported
ACTION	
Spill Action ID :	Not reported
Spill Action Code :	Not reported
Spill Action Person :	Not reported
Tmsp Added :	Not reported
Tmsp Last Updt :	Not reported
Staff Id Last Updt :	Not reported
AFFECTED DESC	
Spill Inc. Affect ID :	Not reported
Spill Inc. Affect Code :	Not reported
Tmsp Added :	Not reported
Tmsp Last Updt :	Not reported
Staff Id Last Updt :	Not reported
EMERGENCY	
Emergency Id :	Not reported
Emergency Code :	Not reported
Spill Action Code :	Not reported
Tmsp Added :	Not reported
Tmsp Last Updt :	Not reported
Staff Id Last Updt :	Not reported
PREVENTION	
Program Int Id :	Not reported
Spill Prevention Id :	Not reported

COMMUNITY STATE BANK (Continued) **S104168504**

Spill Prevention Code :	Not reported
Spill Prevention Date :	Not reported
Comments :	Not reported
Tmsp Added :	Not reported
Tmsp Last Updt :	Not reported
Staff Id Last Updt :	Not reported
PRODUCT	
Spill Incident Accuracy Id :	Not reported
Spill Product Code :	Not reported
Spill Qty Units Code :	Not reported
Spill Incident Accuracy Code :	Not reported
Spill Released Qty :	Not reported
Tmsp Added :	Not reported
Tmsp Last Updt :	Not reported
Staff Id Last Updt :	Not reported

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5 **US WEST** **LUST** **S106547333**
SE **117 S ASHLAND** **N/A**
1/4-1/2 **CAMBRIDGE, MN 55008**
2223 ft.

Relative:
Higher

Actual:
961 ft.

LUST:

Facility Addr 2 :	Not reported
MN PCA ID :	215184
Leak ID :	2381
Leak Site :	Leak Site - Tank and Petroleum Contamination
File Archive Box :	33
File Archive Lot :	94/372
Soil Digout Date :	03/27/1990 00:00:00
Cubic Yards Excavated :	20
Cond Closure Date :	Not reported
Complete Site Closure Date :	**11/9/1990**
Contaminated Soils Remaining :	No
Enforcement Action Begin Date :	04/06/1990 00:00:00
Lust Trust Eligible :	No
Offsite Contamination :	Unknown
Reimbursement Awarded :	No
Release Discovered Date :	Not reported
Leak Reported Date :	3/27/1990
Std Letter Response Date :	Not reported
Surface Water Impact :	Unknown
Utility Project Flag :	No
TMSP Added :	12/4/1999 2:03:44 PM
TMSP Last Update :	5/4/2002 9:07:24 AM
Staff Id Last Update :	TANKS
Release From AST :	No
Release From UST :	No
Tank Registration Status Code :	U
VPIC Application Date :	Not reported
VPIC Acres :	Not reported
Township Name :	Not reported
Interest Type :	LS
Addr Id :	195336
Interest Phone :	Not reported
Interest Start Date :	8/12/1992 11:17:35 AM
Interest End Date :	Not reported
Active Flag :	Not reported
Addr Id :	195336
State County Code :	30

US WEST (Continued) **S106547333**

Country Code :	USA
Foreign State :	Not reported
Foreign Zone :	Not reported
Active :	Y
Vapor Intrusion Checked Flag :	Not reported
Soil Gas Data Collected Flag :	Not reported
Soil Gas Action Level Flag :	Not reported
Sub Slab Sample Collected Flag :	Not reported
Indoor Air Collected Flag :	Not reported
Vapor Intrusion Action Flag :	Not reported
Vapor Intrusion Comments :	Not reported
Soil Gas Data Comments :	Not reported
Comments :	Not reported

LEAK CLEANUP ACTIONS:

Leak Action Seq Id :	Not reported
Leak Action Code :	Not reported
Leak Action Approval Date :	Not reported
Leak Action Begin Date :	Not reported
Leak Action End Date :	Not reported
Product Recovered Gallons :	Not reported
Product Removed Gallons :	Not reported
Treated Water Gallons :	Not reported
Tmsp Added :	Not reported
Tmsp Last Updt :	Not reported
Staff Id Last Updt :	Not reported
Corrective Reason Code :	Not reported

LEAK GW INFO:

Dw Supply Contam :	Not reported
Free Product Observed :	Not reported
Free Product Thickness :	Not reported
Ground Water Contam :	No
Gw Cleanup Goal :	0
Gw Exceeds Cleanup Goal :	Not reported
Cleanup Goal Achieved :	Not reported
Water Supply Exceeds Ral :	Not reported
Well Type Code :	Not reported
Impacted Aquifer Code :	Not reported
Tmsp Added :	12/4/1999 2:07:28 PM
Tmsp Last Updt :	11/4/2003 12:57:06 PM
Staff Id Last Updt :	RSUCHAN
Mtbe Present Now :	Not reported
Mtbe Present Historically :	Not reported
Mtbe High Ug Per Liter Char :	Not reported
Mtbe High Ug Per Liter Numb :	Not reported
Mtbe High Level Date :	Not reported
Free Product At Close :	Not reported
Prot Flag :	Not reported
Sens Flag :	Not reported
PWS Well :	Not reported
Staff Id Ass :	Not reported

LEAK PRODUCT RELEASED:

Prod Released Sequence Id :	326104
Leak Product Code :	Fuel Oil 1 & 2
Tmsp Added :	12/4/1999 2:04:40 PM
Tmsp Last_updt :	5/4/2002 9:07:24 AM
Staff Id Last Updt :	TANKS

6
SE
1/4-1/2
2335 ft.

FORMER GILLESPIES GARAGE
115 N MAIN ST
CAMBRIDGE, MN 55008

LUST

S103702043
N/A

Relative:
Equal

Actual:
960 ft.

LUST:

Facility Addr 2 :	Not reported
MN PCA ID :	224611
Leak ID :	12218
Leak Site :	Leak Site - Tank and Petroleum Contamination
File Archive Box :	Not reported
File Archive Lot :	Not reported
Soil Digout Date :	06/26/2001 00:00:00
Cubic Yards Excavated :	120
Cond Closure Date :	Not reported
Complete Site Closure Date :	**2/14/2005**
Contaminated Soils Remaining :	Yes
Enforcement Action Begin Date :	12/17/1998 00:00:00
Lust Trust Eligible :	Yes
Offsite Contamination :	No
Reimbursement Awarded :	No
Release Discovered Date :	12/02/1998 00:00:00
Leak Reported Date :	12/2/1998
Std Letter Response Date :	01/11/1999 00:00:00
Surface Water Impact :	No
Utility Project Flag :	No
TMSP Added :	12/4/1999 2:03:52 PM
TMSP Last Update :	3/11/2005 9:31:44 AM
Staff Id Last Update :	LSCHILL
Release From AST :	No
Release From UST :	Yes
Tank Registration Status Code :	F
VPIC Application Date :	Not reported
VPIC Acres :	Not reported
Township Name :	Not reported
Interest Type :	LS
Addr Id :	271589
Interest Phone :	Not reported
Interest Start Date :	6/11/1999
Interest End Date :	Not reported
Active Flag :	Not reported
Addr Id :	271589
State County Code :	30
Country Code :	USA
Foreign State :	Not reported
Foreign Zone :	Not reported
Active :	Y
Vapor Intrusion Checked Flag :	Not reported
Soil Gas Data Collected Flag :	Not reported
Soil Gas Action Level Flag :	Not reported
Sub Slab Sample Collected Flag :	Not reported
Indoor Air Collected Flag :	Not reported
Vapor Intrusion Action Flag :	Not reported
Vapor Intrusion Comments :	Not reported
Soil Gas Data Comments :	Not reported
Comments :	Not reported

LEAK CLEANUP ACTIONS:

Leak Action Seq Id :	Not reported
Leak Action Code :	Not reported

FORMER GILLESPIES GARAGE (Continued) **S103702043**

Leak Action Approval Date :	Not reported
Leak Action Begin Date :	Not reported
Leak Action End Date :	Not reported
Product Recovered Gallons :	Not reported
Product Removed Gallons :	Not reported
Treated Water Gallons :	Not reported
Tmsp Added :	Not reported
Tmsp Last Updt :	Not reported
Staff Id Last Updt :	Not reported
Corrective Reason Code :	Not reported

LEAK GW INFO:

Dw Supply Contam :	Not reported
Free Product Observed :	Not reported
Free Product Thickness :	Not reported
Ground Water Contam :	No
Gw Cleanup Goal :	0
Gw Exceeds Cleanup Goal :	Not reported
Cleanup Goal Achieved :	Not reported
Water Supply Exceeds Ral :	Not reported
Well Type Code :	Not reported
Impacted Aquifer Code :	Not reported
Tmsp Added :	12/4/1999 2:07:35 PM
Tmsp Last Updt :	2/7/2005 5:40:05 PM
Staff Id Last Updt :	SVANPAT
Mtbe Present Now :	Not reported
Mtbe Present Historically :	Not reported
Mtbe High Ug Per Liter Char :	Not reported
Mtbe High Ug Per Liter Numb :	Not reported
Mtbe High Level Date :	Not reported
Free Product At Close :	Not reported
Prot Flag :	Not reported
Sens Flag :	Not reported
PWS Well :	Not reported
Staff Id Ass :	3433

LEAK PRODUCT RELEASED:

Prod Released Sequence Id :	28526
Leak Product Code :	Gasoline, Type Unknown
Tmsp Added :	4/19/2002 1:53:36 PM
Tmsp Last_updt :	5/4/2002 9:41:36 AM
Staff Id Last Updt :	TANKS

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7 **CAMBRIDGE PARKING LOT** **LUST** **S105120923**
SSE **ASHLAND AND 2ND AVE SW** **N/A**
1/4-1/2 **CAMBRIDGE, MN 55008**
2474 ft.

Relative:
Higher

Actual:
964 ft.

LUST:

Facility Addr 2 :	Not reported
MN PCA ID :	231673
Leak ID :	14345
Leak Site :	Leak Site - Tank and Petroleum Contamination
File Archive Box :	Not reported
File Archive Lot :	Not reported
Soil Digout Date :	08/06/2001 00:00:00
Cubic Yards Excavated :	144
Cond Closure Date :	Not reported
Complete Site Closure Date :	**3/6/2003**
Contaminated Soils Remaining :	Yes

CAMBRIDGE PARKING LOT (Continued) **S105120923**

Enforcement Action Begin Date :	07/27/2001 00:00:00
Lust Trust Eligible :	No
Offsite Contamination :	Unknown
Reimbursement Awarded :	No
Release Discovered Date :	07/11/2001 00:00:00
Leak Reported Date :	7/12/2001
Std Letter Response Date :	03/11/2002 00:00:00
Surface Water Impact :	No
Utility Project Flag :	No
TMSP Added :	7/26/2001 10:36:19 AM
TMSP Last Update :	3/18/2003 2:59:01 PM
Staff Id Last Update :	DMITZUK
Release From AST :	No
Release From UST :	Yes
Tank Registration Status Code :	S
VPIC Application Date :	Not reported
VPIC Acres :	Not reported
Township Name :	Not reported
Interest Type :	LS
Addr Id :	294432
Interest Phone :	Not reported
Interest Start Date :	7/26/2001
Interest End Date :	Not reported
Active Flag :	Not reported
Addr Id :	294432
State County Code :	30
Country Code :	Not reported
Foreign State :	Not reported
Foreign Zone :	Not reported
Active :	Y
Vapor Intrusion Checked Flag :	Not reported
Soil Gas Data Collected Flag :	Not reported
Soil Gas Action Level Flag :	Not reported
Sub Slab Sample Collected Flag :	Not reported
Indoor Air Collected Flag :	Not reported
Vapor Intrusion Action Flag :	Not reported
Vapor Intrusion Comments :	Not reported
Soil Gas Data Comments :	Not reported
Comments :	Not reported

LEAK CLEANUP ACTIONS:

Leak Action Seq Id :	Not reported
Leak Action Code :	Not reported
Leak Action Approval Date :	Not reported
Leak Action Begin Date :	Not reported
Leak Action End Date :	Not reported
Product Recovered Gallons :	Not reported
Product Removed Gallons :	Not reported
Treated Water Gallons :	Not reported
Tmsp Added :	Not reported
Tmsp Last Updt :	Not reported
Staff Id Last Updt :	Not reported
Corrective Reason Code :	Not reported

LEAK GW INFO:

Dw Supply Contam :	Not reported
Free Product Observed :	Not reported
Free Product Thickness :	Not reported

CAMBRIDGE PARKING LOT (Continued) **S105120923**

Ground Water Contam :	No
Gw Cleanup Goal :	Not reported
Gw Exceeds Cleanup Goal :	Not reported
Cleanup Goal Achieved :	Not reported
Water Supply Exceeds Ral :	Not reported
Well Type Code :	Not reported
Impacted Aquifer Code :	Not reported
Tmsp Added :	7/26/2001 10:36:19 AM
Tmsp Last Updt :	11/4/2003 12:57:09 PM
Staff Id Last Updt :	RSUCHAN
Mtbe Present Now :	Not reported
Mtbe Present Historically :	No
Mtbe High Ug Per Liter Char :	Not reported
Mtbe High Ug Per Liter Numb :	Not reported
Mtbe High Level Date :	Not reported
Free Product At Close :	Not reported
Prot Flag :	Not reported
Sens Flag :	Not reported
PWS Well :	Not reported
Staff Id Ass :	Not reported

LEAK PRODUCT RELEASED:

Prod Released Sequence Id :	27680
Leak Product Code :	Fuel Oil 1 & 2
Tmsp Added :	3/12/2002 9:07:55 AM
Tmsp Last_updt :	5/4/2002 10:04:44 AM
Staff Id Last Updt :	TANKS

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CAMBRIDGE	1000379058	KRUSE JOHN	RTE 1 BOX 326	55008	RCRA-SQG, FINDS
CAMBRIDGE	1004739540	BATTERY F 151ST FA NATIONAL GUARD	1352 HWY 293 MCBROOM HALL	55008	RCRA-SQG, FINDS
CAMBRIDGE	1000359663	AMERICAN MOTORCYCLE	RTE 3	55008	RCRA-SQG, FINDS
CAMBRIDGE	1006930832	RYAN'S REPAIR	30798 HWY 47 NW	55008	RCRA-SQG
CAMBRIDGE	S106551111	T AND C SELF SERVE	30500 HWY 47 NW	55008	LUST
CAMBRIDGE	U003852650	T&C SELF SERV	30560 HWY 47 NW	55008	UST
CAMBRIDGE	1000364131	MPCA ISANTI SOLVENT SITE	RTE 5 BOX 118	55008	RCRA-SQG, FINDS, CERC-NFRAP
CAMBRIDGE	1000349675	VANPRO INC	RTE 6 BOX 371A	55008	RCRA-SQG, FINDS
CAMBRIDGE	1004732168	PURPLE HAWK COUNTRY CLUB	HWY 65 P O BOX 528	55008	RCRA-SQG, FINDS, AST
CAMBRIDGE	S106547163	UNITED POWER ASSOCIATION	HWY 65 N	55008	LUST
CAMBRIDGE	U003864547	WESTROMS CORNER- CONOCO	HWY 65 & 4000 MAIN ST S	55008	UST
CAMBRIDGE	U003864755	FORMER GAS STATION- MAIN ST CAR	HWY 65	55008	UST
CAMBRIDGE	U003912746	UNITED POWER ASSN	HWY 65 N	55008	UST, AST
CAMBRIDGE	S106549238	CAMBRIDGE NORTH BULK PLANT	HWY 95 / CLEVELAND	55008	LUST
CAMBRIDGE	U003853236	WAL-MART (MURPHY OIL) SPUR #6525	HWY 95 & WALMART LN/2015 2ND A	55008	UST
CAMBRIDGE	U003864923	MURPHY OIL- SPUR #6811 WAL-MART	HWY 95 - 2046 2ND AVE SE	55008	UST
CAMBRIDGE	U003933919	FLEET GO INC	HIGHWAY 95 E	55008	UST, AST
CAMBRIDGE	S106634640	ISANTI SOLID WASTE TRANSFER STATIO	APPROX. 1/2 MILE SW OF THE HWY	55008	MN LS
CAMBRIDGE	S106548127	GWJ INVESTMENTS	E. HIGHWAY 95	55008	LUST
CAMBRIDGE	S106549686	CAMBRIDGE UNION 76	329 E HWY 95	55008	LUST
CAMBRIDGE	1000164755	CAMBRIDGE STATE HOSPITAL	ST HWY 293	55008	RCRA-SQG, FINDS
CAMBRIDGE	1000421059	SCOTSMAN PUBLISHING CO	EAST HWY 95	55008	RCRA-SQG, FINDS
CAMBRIDGE	1004734468	SUNSHINE GRAPHICS	1023 E HWY 95	55008	RCRA-SQG, FINDS
ISANTI	S106784430	ISANTI SOLVENT (AKA CHARLES SCHUM	RTE 5 BOX 118	55008	SHWS
NOT APPLICABLE	S106784416	BERNARD RUMPEL PROPERTY	HWY 47 3MI NE OF SAINT FRANCES	55008	SHWS
STANCHFIELD	U003912577	TOTAL PETROLEUM	HWY 65	55008	UST
STANFORD TOWNSHIP	1003871995	ALLEN SWANSON PROPERTY	ROUTE 1 2MI WEST & 3MI SOUTH O	55008	CERC-NFRAP
STANFORD TOWNSHIP	1000307470	BERNARD RUMPLE PROPERTY	HIGHWAY 47 3MI NE OF ST FRANCE	55008	CERCLIS, FINDS
WEST POINT	S105481241	MNDOT TH 47	HIGHWAY 47	55008	MN VIC

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: Site Remediation System Database

The SRS database includes all sites that the State Superfund Program is dealing with or has dealt with. The Superfund Program identifies, investigates and determines appropriate cleanup plans for abandoned or uncontrolled hazardous waste sites where a release or potential release of a hazardous substance poses a risk to human health or the environment.

Date of Government Version: 04/04/2006
Date Data Arrived at EDR: 04/05/2006
Date Made Active in Reports: 05/09/2006
Number of Days to Update: 34

Source: Minnesota Pollution Control Agency
Telephone: 651-296-6300
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Annually

MN PLP: Permanent List of Priorities

The list identifies hazardous waste sites where investigation and cleanup are needed, cleanup is underway, or cleanup has been completed and long-term monitoring or maintenance continues.

Date of Government Version: 06/11/2004
Date Data Arrived at EDR: 06/11/2004
Date Made Active in Reports: 06/24/2004
Number of Days to Update: 13

Source: Pollution Control Agency
Telephone: 651-296-6139
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Annually

MN DEL PLP: Delisted Permanent List of Priorities

This generally means that either no more cleanup at a site is needed or that no state superfund funding is needed for long term monitoring activities.

Date of Government Version: 12/01/2005
Date Data Arrived at EDR: 12/06/2005
Date Made Active in Reports: 01/26/2006
Number of Days to Update: 51

Source: Pollution Control Agency
Telephone: 651-296-6139
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Annually

SWF/LF: Permitted Solid Waste Disposal 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: 03/01/2006
Date Data Arrived at EDR: 03/07/2006
Date Made Active in Reports: 04/07/2006
Number of Days to Update: 31

Source: Minnesota Pollution Control Agency
Telephone: 651-296-7276
Last EDR Contact: 06/07/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Varies

LCP: Closed Landfills Priority List

The Minnesota Legislature enacted a law to manage and clean up the state's closed Mixed Municipal Solid Waste Landfills. Under that law, the MPCA is required to create and periodically revise a priority list of qualified landfills, based on the relative health and environmental risks they present. The MPCA established the first such priority list in December, 1994.

Date of Government Version: 11/01/2005
Date Data Arrived at EDR: 12/14/2005
Date Made Active in Reports: 01/26/2006
Number of Days to Update: 43

Source: Minnesota Pollution Control Agency
Telephone: 651-296-9543
Source: Pollution Control Agency, GIS Section
Telephone: 651-296-7266
Last EDR Contact: 06/21/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LS: List of Sites

The List of Sites includes: Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS), No Further Remedial Action Planned (NFRAP), National Priorities List (NPL), Permanent List of Priorities (PLP), sites delisted from the Permanent List of Priorities (DPLP), Hazardous Waste Permit Unit Project Facilities (HW PERM), List of Permitted Solid Waste Facilities (SW PERM), 1980 Metropolitan Area Waste Disposal Site Inventory (METRO), 1980 Statewide Outstate Dump Inventory (ODI), Voluntary and Investigation Program (VIC), and Closed Landfill Sites Undergoing Cleanup (LCP).

Date of Government Version: 06/02/2005
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 08/03/2005
Number of Days to Update: 26

Source: Minnesota Pollution Control Agency
Telephone: 651-297-2731
Source: Pollution Control Agency, GIS Section
Telephone: 651-297-2731
Last EDR Contact: 04/14/2006
Next Scheduled EDR Contact: 07/17/2006
Data Release Frequency: Semi-Annually

LUST: Leak Sites

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 03/07/2006
Date Made Active in Reports: 04/07/2006
Number of Days to Update: 31

Source: Minnesota Pollution Control Agency
Telephone: 651-649-5451
Last EDR Contact: 06/07/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Semi-Annually

UST: Underground Storage Tank Database

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: 03/01/2006
Date Data Arrived at EDR: 03/07/2006
Date Made Active in Reports: 03/30/2006
Number of Days to Update: 23

Source: Minnesota Pollution Control Agency
Telephone: 651-649-5451
Last EDR Contact: 06/07/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Varies

LAST: Leaking Aboveground Storage Tanks

A listing of leaking aboveground storage tanks.

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 03/07/2006
Date Made Active in Reports: 04/07/2006
Number of Days to Update: 31

Source: Pollution Control Agency
Telephone: 651-649-5451
Last EDR Contact: 06/07/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Semi-Annually

AST: Aboveground Storage Tanks

Registered Aboveground Storage Tanks.

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 03/07/2006
Date Made Active in Reports: 03/30/2006
Number of Days to Update: 23

Source: Minnesota Pollution Control Agency
Telephone: 651-296-0930
Last EDR Contact: 06/07/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Semi-Annually

LIENS: Environmental Liens

Sites included in the Site Remediation System Database that have Environmental Liens.

Date of Government Version: 04/04/2006
Date Data Arrived at EDR: 04/05/2006
Date Made Active in Reports: 05/09/2006
Number of Days to Update: 34

Source: Pollution Control Agency
Telephone: 602-282-5988
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

BULK: Bulk Facilities Database
Facilities that use bulk pesticides and fertilizers

Date of Government Version: 03/07/2006
Date Data Arrived at EDR: 03/07/2006
Date Made Active in Reports: 04/07/2006
Number of Days to Update: 31

Source: Department of Agriculture
Telephone: 651-297-3997
Last EDR Contact: 06/07/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Semi-Annually

SPILLS: Spills Database

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 03/07/2006
Date Made Active in Reports: 04/07/2006
Number of Days to Update: 31

Source: Minnesota Pollution Control Agency
Telephone: 651-297-8617
Last EDR Contact: 06/07/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Quarterly

AG SPILLS: Department of Agriculture Spills
This data is a list of pesticide/fertilizer incidents reported to have occurred in Minnesota.

Date of Government Version: 03/21/2006
Date Data Arrived at EDR: 04/07/2006
Date Made Active in Reports: 05/09/2006
Number of Days to Update: 32

Source: Department of Agriculture
Telephone: 651-297-3997
Last EDR Contact: 03/06/2006
Next Scheduled EDR Contact: 06/05/2006
Data Release Frequency: Semi-Annually

INST CONTROL: Site Remediation Section Database
Sites that have an Institutional Control event.

Date of Government Version: 04/04/2006
Date Data Arrived at EDR: 04/05/2006
Date Made Active in Reports: 05/09/2006
Number of Days to Update: 34

Source: Pollution Control Agency
Telephone: 512-296-6300
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Quarterly

VIC: Voluntary Investigation and Cleanup Program
Voluntary Investigation and Cleanup (VIC) Program List.

Date of Government Version: 04/04/2006
Date Data Arrived at EDR: 04/05/2006
Date Made Active in Reports: 05/09/2006
Number of Days to Update: 34

Source: Minnesota Pollution Control Agency
Telephone: 651-296-7291
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Quarterly

DRYCLEANERS: Registered Drycleaning Facilities
A listing of coin-operated laundries and drycleaning; drycleaning plants, except rug cleaning; and industrial launderers.

Date of Government Version: 05/23/2006
Date Data Arrived at EDR: 05/24/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 22

Source: Pollution Control Agency
Telephone: 651-296-6300
Last EDR Contact: 07/10/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Varies

BROWNFIELDS: Petroleum Brownfields Program Sites
Purchasing, selling, or developing property can present a special set of obstacles if the property is contaminated with chemicals. The Petroleum Brownfields Program is one of several programs within the Minnesota Pollution Control Agency (MPCA) designed to help people address these obstacles. The purpose of the Petroleum Brownfields Program is to provide the technical assistance and liability assurance needed to expedite and facilitate the development, transfer, investigation and/or cleanup of property that is contaminated with petroleum.

Date of Government Version: 09/01/2005
Date Data Arrived at EDR: 11/10/2005
Date Made Active in Reports: 12/14/2005
Number of Days to Update: 34

Source: Pollution Control Agency
Telephone: 651-296-7999
Last EDR Contact: 06/13/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Varies

CDL: Clandestine Drug Labs

This data was passively gathered. That is, the DOH asks law enforcement and other agencies to notify them of Clandestine Drug Labs (CDLs). They do not require reporting of events. Therefore the data represents only a subset of all CDLs. This data has not been verified. The DOH has made no attempt to verify that reported CDLs actually occurred. They have no knowledge if the CDL was involved in cooking or just consisted of chemicals associated with Meth production. The reports they receive are that a suspected CDL was seized.

Date of Government Version: 05/19/2006
Date Data Arrived at EDR: 05/24/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 22

Source: Department of Health
Telephone: 651-215-5800
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Varies

ENFORCEMENT: Generators Associated with Enforcement Logs

Regulatory Compliance, Hazardous Waste Enforcement Log and Hazardous Waste Permit Unit Project Identification List.

Date of Government Version: 04/10/2006
Date Data Arrived at EDR: 05/15/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 31

Source: Minnesota Pollution Control Agency
Telephone: 651-297-8332
Last EDR Contact: 07/10/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Quarterly

MN HWS PERMIT: Active TSD Facilities

Active TSD Facilities.

Date of Government Version: 04/01/2006
Date Data Arrived at EDR: 04/11/2006
Date Made Active in Reports: 05/09/2006
Number of Days to Update: 28

Source: Minnesota Pollution Control Agency
Telephone: 651-297-8470
Last EDR Contact: 07/10/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Annually

AIRS: Permit Contact List

A listing of permitted AIRS facilities.

Date of Government Version: 05/25/2006
Date Data Arrived at EDR: 05/26/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 20

Source: Pollution Control Agency
Telephone: 651-296-7351
Last EDR Contact: 05/03/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Varies

TIER 2: Tier 2 Facility Listing

A listing of facilities which store or manufacture hazardous materials that submit a chemical inventory report.

Date of Government Version: 04/11/2006
Date Data Arrived at EDR: 05/04/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 42

Source: Department of Public Safety
Telephone: 651-296-2233
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Varies

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

INDIAN UST: Underground Storage Tanks on Indian Land

Date of Government Version: 12/02/2004
Date Data Arrived at EDR: 12/29/2004
Date Made Active in Reports: 02/02/2005
Number of Days to Update: 35

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Varies

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

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

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: Child Care Centers
Source: Department of Human Services
Telephone: 651-296-3971

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

CAMBRIDGE MEMORIAL USARC
540 FIFTH AVENUE NW
CAMBRIDGE, MN 55008

TARGET PROPERTY COORDINATES

Latitude (North):	45.57750 - 45° 34' 39.0''
Longitude (West):	93.2303 - 93° 13' 49.1''
Universal Tranverse Mercator:	Zone 15
UTM X (Meters):	482031.6
UTM Y (Meters):	5046914.5
Elevation:	960 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	45093-E2 CAMBRIDGE, MN
Most Recent Revision:	1983
West Map:	45093-E3 BRADFORD, MN
Most Recent Revision:	1983

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).

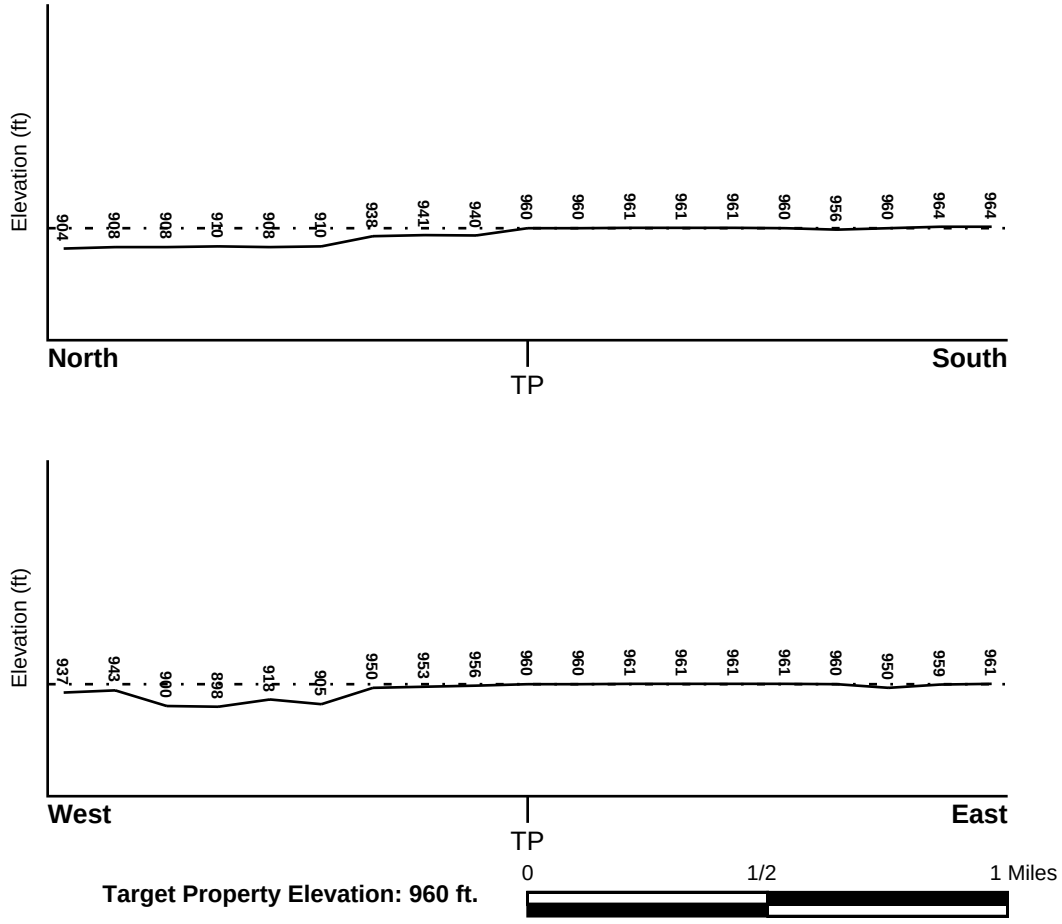
TOPOGRAPHIC INFORMATION

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 NNW

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
ISANTI, MN	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
CAMBRIDGE	YES - refer to the Overview Map and Detail Map

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.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

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:	Cambrian
Series:	Cambrian
Code:	C *(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:	ZIMMERMAN
Soil Surface Texture:	fine sand
Hydrologic Group:	Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.
Soil Drainage Class:	Excessively. Soils have very high and high hydraulic conductivity and low water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	LOW
Depth to Bedrock Min:	> 60 inches
Depth to Bedrock Max:	> 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	10 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 20.00 Min: 6.00	Max: 6.50 Min: 5.10
2	10 inches	60 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 20.00 Min: 6.00	Max: 7.30 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: fine sandy loam
loamy fine sand
mucky-peat
muck

Surficial Soil Types: fine sandy loam
loamy fine sand
mucky-peat
muck

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: mucky-peat
muck

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS2006970	1/4 - 1/2 Mile SSE
2	USGS2006967	1/4 - 1/2 Mile SSE
B5	USGS2006867	1/4 - 1/2 Mile ENE
B7	USGS2006871	1/2 - 1 Mile ENE
B8	USGS2006870	1/2 - 1 Mile ENE
C9	USGS2006949	1/2 - 1 Mile SSW
C10	USGS2006948	1/2 - 1 Mile South
D12	USGS2006881	1/2 - 1 Mile ENE
C13	USGS2006946	1/2 - 1 Mile SSW
E15	USGS2006734	1/2 - 1 Mile NE
F16	USGS2006884	1/2 - 1 Mile WNW
18	USGS2006938	1/2 - 1 Mile SSW
G19	USGS2006886	1/2 - 1 Mile ENE
H21	USGS2006937	1/2 - 1 Mile SSE
I22	USGS2006929	1/2 - 1 Mile South
J23	USGS2006743	1/2 - 1 Mile NW
K30	USGS2006828	1/2 - 1 Mile WSW
L31	USGS2006917	1/2 - 1 Mile SSE
M33	USGS2006825	1/2 - 1 Mile WSW
35	USGS2006869	1/2 - 1 Mile ENE
36	USGS2006907	1/2 - 1 Mile South
37	USGS2006872	1/2 - 1 Mile WNW
N39	USGS2006966	1/2 - 1 Mile ESE
O41	USGS2006759	1/2 - 1 Mile NW
O42	USGS2006761	1/2 - 1 Mile NW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A3	MN5010007	1/4 - 1/2 Mile SE

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

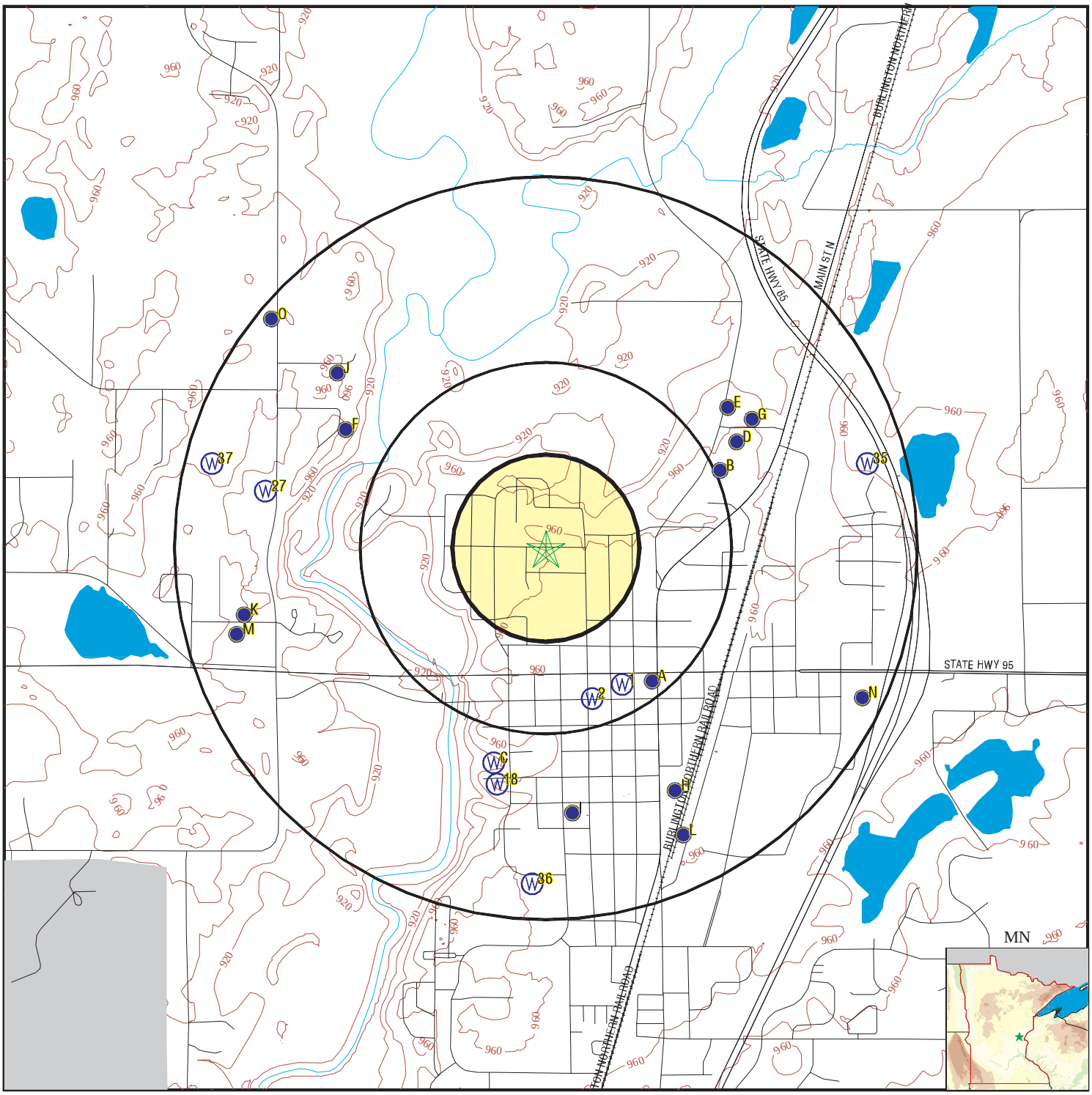
MAP ID	WELL ID	LOCATION FROM TP
A4	MN0000077725	1/4 - 1/2 Mile SE
B6	MN0000008019	1/2 - 1 Mile ENE
D11	MN0000140019	1/2 - 1 Mile ENE
E14	MN0000136717	1/2 - 1 Mile NE
F17	MN0000122242	1/2 - 1 Mile WNW
G20	MN0000077718	1/2 - 1 Mile ENE
I24	MN0000035999	1/2 - 1 Mile South
J25	MN0000076669	1/2 - 1 Mile NW
H26	MN0000076670	1/2 - 1 Mile SSE
27	MN0000083418	1/2 - 1 Mile WNW
K28	MN0000011107	1/2 - 1 Mile WSW
K29	MN0000123199	1/2 - 1 Mile WSW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
L32	MN0000011098	1/2 - 1 Mile SSE
M34	MN0000036822	1/2 - 1 Mile WSW
N38	MN0000007995	1/2 - 1 Mile ESE
O40	MN0000004844	1/2 - 1 Mile NW
O43	MN0000004841	1/2 - 1 Mile NW

PHYSICAL SETTING SOURCE MAP - 01714247.38r



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data

SITE NAME:	Cambridge Memorial USARC	CLIENT:	CH2M Hill
ADDRESS:	540 FIFTH AVENUE NW CAMBRIDGE MN 55008	CONTACT:	Mary Beth Jacques
LAT/LONG:	45.5775 / 93.2303	INQUIRY #:	01714247.38r
		DATE:	July 13, 2006

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
SSE **FED USGS** **USGS2006970**
1/4 - 1/2 Mile
Higher

Agency cd:	USGS	Site no:	453420093133301
Site name:	036N23W32AAA		
Latitude:	453420		
Longitude:	931333	Dec lat:	45.57218528
Dec lon:	-93.22605889	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	27
State:	27	County:	059
Country:	US	Land net:	NENENES32 T036N R23W
Location map:	CAMBRIDGE	Map scale:	62500
Altitude:	964.00	Altitude method:	M
Altitude accuracy:	5	Altitude datum:	NGVD29
Hydrologic:	Rum. Minnesota. Area = 1560 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19670826
Date inventoried:	Not Reported	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	172	Hole depth:	Not Reported
Source of depth data:	Not Reported	Project number:	Not Reported
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1969-07-08	Ground water data end date:	1969-07-08
Ground water data count:	1		

Ground-water levels, Number of Measurements: 0

2
SSE **FED USGS** **USGS2006967**
1/4 - 1/2 Mile
Higher

Agency cd:	USGS	Site no:	453418093133901
Site name:	036N23W32AAB		
Latitude:	453418		
Longitude:	931339	Dec lat:	45.57162972
Dec lon:	-93.22772556	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	27
State:	27	County:	059
Country:	US	Land net:	NWNENES32 T036N R23W
Location map:	CAMBRIDGE	Map scale:	62500
Altitude:	965.00	Altitude method:	M
Altitude accuracy:	5	Altitude datum:	NGVD29
Hydrologic:	Rum. Minnesota. Area = 1560 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	CST

Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	368	Hole depth:	Not Reported
Source of depth data:	Not Reported	Project number:	Not Reported
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1969-07-08	Ground water data end date:	1969-07-08
Ground water data count:	1		

Ground-water levels, Number of Measurements: 0

A3
SE
1/4 - 1/2 Mile
Higher

FRDS PWS **MN5010007**

PWS ID:	MN5010007	PWS Status:	Active
Date Initiated:	7706	Date Deactivated:	Not Reported
PWS Name:	CAMP NEW HOPE TURNER LAKE - ROUTE 3 MCGREGOR, MN 55008		
Addressee / Facility:	Mailing CAMP NEW HOPE CAMBRIDGE STATE HOSPITAL CAMBRIDGE, MN 55008		
Facility Latitude:	45 34 22	Facility Longitude:	093 13 27
City Served:	Not Reported		
Treatment Class:	Untreated	Population:	00000025

PWS currently has or had major violation(s) or enforcement: No

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A4
SE
1/4 - 1/2 Mile
Higher

MN WELLS **MN0000077725**

Relateid:	0000219417	County c:	Isanti
Unique no:	00219417	Wellname:	BEN FRANKLIN STORE
Township:	36	Range:	23
Range dir:	W	Section:	32
Subsection:	AAAAAA	Mgsquad c:	152
Elevation:	960		
Elev mc:	7.5 minute topographic map (+/- 5 feet)		
Status c:	Active		
Use c:	Commercial	Loc mc:	Not Reported
Loc src:	Minnesota Geological Survey	Data src:	Not Reported
Depth drll:	172		

Depth comp:	172		
Date drll:	19670826		
Case diam:	Not Reported		
Case depth:	Not Reported		
Grout:	Not Reported	Pollut dst:	-999
Pollut dir:	Not Reported	Pollut typ:	Not Reported
Strat date:	19910814	Strat upd:	20020820
Strat src:	Minnesota Geological Survey	Strat geol:	Unknown
Strat mc:	MGS provisional [MGS] unspecif		
Depth2bdrk:	130		
First bdrk:	CIGL	Last strat:	Ironton-Galesville
Ohtopunit:	CIGL	Ohbotunit:	CIGL
Aquifer:	CIGL	Cuttings:	Not Reported
Core:	Not Reported	Bhgeophys:	Not Reported
Geochem:	Not Reported	Waterchem:	Not Reported
Obwell:	Not Reported	Swl:	Y
Igwis:	Not Reported	Input src:	Minnesota Geological Survey
Unused:	Not Reported	Entry date:	19901009
Updt date:	20020820	Site id:	MN0000077725

Construction 1 Information:

Relateid:	0000219417	Drill meth:	Not Reported
Drill flud:	Not Reported	Hydrofrac:	Not Reported
Hffrom:	Not Reported		
Hfto:	Not Reported		
Case mat:	Not Reported	Case joint:	Not Reported
Case top:	Not Reported		
Drive shoe:	Not Reported	Case type:	Not Reported
Screen:	Not Reported		
Ohtopfeet:	Not Reported		
Ohbotfeet:	Not Reported		
Screen mfg:	Not Reported	Screen typ:	Not Reported
Ptlss mfg:	Not Reported	Ptlss mdl:	Not Reported
Bsmt offst:	Not Reported	Csg top ok:	Not Reported
Csg at grd:	Not Reported	Plstc prot:	Not Reported
Disinfectd:	Not Reported	Pump inst:	Not Reported
Pump date:	Not Reported	Pump mfg:	Not Reported
Pump model:	Not Reported		
Pump hp:	Not Reported		
Pump volts:	Not Reported		
Dropp len:	Not Reported		
Dropp mat:	Not Reported	Pump cpcty:	Not Reported
Pump type:	Not Reported	Variance:	Not Reported
Drllr name:	Not Reported	Entry date:	Not Reported
Updt date:	20020820		

Well Information:

Relateid:	0000219417	Meas type:	Well installation
Meas date:	19670826	Meas time:	Not Reported
M pt code:	Land surface		
Meas point:	0		
Measuremt:	37		
Meas elev:	923		
Data src:	Not Reported	Program:	CWI
Entry date:	19901009	Updt date:	0

Pump Test Information:

Relateid:	0000219417	Pumptestid:	1
Test date:	19670826		
Start meas:	37		
Flow rate:	1200		
Duration:	Not Reported		
Pump meas:	40		

Stratigraphy Information:

Relateid:	0000219417	Depth top:	0
Depth bot:	21	Drllr desc:	LIGHT SAND
Color:	Not Reported	Hardness:	Not Reported
Strat:	Quaternary sand-sort undiff or unknown-unknown or unspecified		
Lith prim:	Sand		
Lith sec:	Not Reported	Lith minor:	Not Reported

B5
ENE **FED USGS** **USGS2006867**
1/4 - 1/2 Mile
Higher

Agency cd:	MN040	Site no:	453449093131401
Site name:	36N23W28BCDCAB01		
Latitude:	453449		
Longitude:	0931314	Dec lat:	45.58024056
Dec lon:	-93.22078056	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	27
State:	27	County:	059
Country:	US	Land net:	SESWNWS28 T 36N R23W
Location map:	CAMBRIDGE	Map scale:	62500
Altitude:	962	Altitude method:	M
Altitude accuracy:	5	Altitude datum:	NGVD29
Hydrologic:	Rum. Minnesota. Area = 1560 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19001016
Date inventoried:	19901009	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	IRONTON AND GALESVILLE SANDSTONES		
Well depth:	152	Hole depth:	152
Source of depth data:	Not Reported	Project number:	462714100
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1900-10-16	Ground water data end date:	1900-10-16
Ground water data count:	1		

Ground-water levels, Number of Measurements: 0

B6
ENE **MN WELLS** **MN0000008019**
1/2 - 1 Mile
Higher

Relateid:	0000111348	County c:	Isanti
Unique no:	00111348	Wellname:	LINDQUIST, LES
Township:	36	Range:	23
Range dir:	W	Section:	28
Subsection:	BCDCAB	Mgsquad c:	152
Elevation:	962		
Elev mc:	7.5 minute topographic map (+/- 5 feet)		
Status c:	Active		
Use c:	Domestic	Loc mc:	Not Reported
Loc src:	Minnesota Geological Survey	Data src:	Nelson Well Co
Depth drll:	152		
Depth comp:	152		
Date drll:	19001016		
Case diam:	Not Reported		
Case depth:	148		
Grout:	Well known to be not grouted	Pollut dst:	75
Pollut dir:	S	Pollut typ:	SDF
Strat date:	19910814	Strat upd:	20020820
Strat src:	Minnesota Geological Survey	Strat geol:	Unknown
Strat mc:	MGS provisional [MGS] unspecif		
Depth2bdrk:	129		
First bdrk:	CFRN	Last strat:	Ironton-Galesville
Ohtopunit:	CIGL	Ohbotunit:	CIGL
Aquifer:	CIGL	Cuttings:	Not Reported
Core:	Not Reported	Bhgeophys:	Not Reported
Geochem:	Not Reported	Waterchem:	Not Reported
Obwell:	Not Reported	Swl:	Y
Igwis:	Not Reported	Input src:	Minnesota Geological Survey
Unused:	Not Reported	Entry date:	19901009
Updt date:	20020820	Site id:	MN0000008019

Construction 1 Information:

Relateid:	0000111348	Drill meth:	Cable Tool
Drill flud:	Not Reported	Hydrofrac:	Not Reported
Hffrom:	Not Reported		
Hfto:	Not Reported		
Case mat:	Steel (black or low carbon)	Case joint:	T
Case top:	0		
Drive shoe:	Y	Case type:	Single casing
Screen:	Y		
Ohtopfeet:	Not Reported		
Ohbotfeet:	Not Reported		
Screen mfg:	JOHNSON	Screen typ:	stainless steel
Ptlss mfg:	Not Reported	Ptlss mdl:	Not Reported
Bsmt offst:	Not Reported	Csg top ok:	Not Reported
Csg at grd:	Not Reported	Plstc prot:	Not Reported
Disinfectd:	Y	Pump inst:	Y
Pump date:	Not Reported	Pump mfg:	AERMOTOR
Pump model:	SD 12 50		
Pump hp:	.5		
Pump volts:	230		
Dropp len:	60		
Dropp mat:	G	Pump cpcty:	12
Pump type:	Submersible	Variance:	Not Reported
Drllr name:	Not Reported	Entry date:	19901009
Updt date:	20020820		

Construction 2 Information:

Relateid:	0000111348	Constype:	C
From depth:	0		
To depth:	148		
Diameter:	0		
Slot:	Not Reported		
Length:	Not Reported		
Material:	Not Reported		
Amount:	Not Reported		
Units:	Not Reported		

Well Information:

Relateid:	0000111348	Meas type:	Well installation
Meas date:	19001016	Meas time:	Not Reported
M pt code:	Land surface		
Meas point:	0		
Measuremt:	30		
Meas elev:	932		
Data src:	Not Reported	Program:	CWI
Entry date:	19901009	Updt date:	0

Stratigraphy Information:

Relateid:	0000111348	Depth top:	0
Depth bot:	42	Drllr desc:	SAND
Color:	BROWN	Hardness:	SOFT
Strat:	Quaternary sand-sort undiff or unknown-brown		
Lith prim:	Sand		
Lith sec:	Not Reported	Lith minor:	Not Reported

B7
ENE **FED USGS** **USGS2006871**
1/2 - 1 Mile
Higher

Agency cd:	MN040	Site no:	453451093131302
Site name:	36N23W28BCD 02		
Latitude:	453451		
Longitude:	0931313	Dec lat:	45.58079611
Dec lon:	-93.22050278	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	27
State:	27	County:	059
Country:	US	Land net:	SESWNWS28 T 36N R23W
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	Not Reported	Altitude method:	Not Reported
Altitude accuracy:	Not Reported	Altitude datum:	Not Reported
Hydrologic:	Rum. Minnesota. Area = 1560 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19930428
Date inventoried:	19930918	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	186	Hole depth:	186
Source of depth data:	Not Reported	Project number:	462714100
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1993-04-29	Ground water data end date:	1993-04-29
Ground water data count:	1		

Ground-water levels, Number of Measurements: 0

B8
ENE **FED USGS** **USGS2006870**
1/2 - 1 Mile
Higher

Agency cd:	MN040	Site no:	453451093131301
Site name:	36N23W28BCD 01		
Latitude:	453451		
Longitude:	0931313	Dec lat:	45.58079611
Dec lon:	-93.22050278	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	27
State:	27	County:	059
Country:	US	Land net:	SESWNWS28 T 36N R23W
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	Not Reported	Altitude method:	Not Reported
Altitude accuracy:	Not Reported	Altitude datum:	Not Reported
Hydrologic:	Rum. Minnesota. Area = 1560 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19920430
Date inventoried:	19920902	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	167	Hole depth:	167
Source of depth data:	Not Reported	Project number:	462714100
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1992-04-30	Ground water data end date:	1992-04-30
Ground water data count:	1		

Ground-water levels, Number of Measurements: 0

C9
SSW **FED USGS** **USGS2006949**
1/2 - 1 Mile
Lower

Agency cd:	USGS	Site no:	453410093140001
Site name:	036N23W32ACB01		
Latitude:	453410		
Longitude:	0931400	Dec lat:	45.5694075
Dec lon:	-93.23355917	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	27
State:	27	County:	059
Country:	US	Land net:	Not Reported
Location map:	CAMBRIDGE	Map scale:	62500

Altitude:	960.00	Altitude method:	M
Altitude accuracy:	5	Altitude datum:	NGVD29
Hydrologic:	Rum. Minnesota. Area = 1560 sq.mi.		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	19650501
Date inventoried:	Not Reported	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Confined single aquifer		
Aquifer:	HINCKLEY FORMATION		
Well depth:	630	Hole depth:	630
Source of depth data:	Not Reported	Project number:	Not Reported
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1965-05-01	Ground water data end date:	1989-09-11
Ground water data count:	729		

Ground-water levels, Number of Measurements: 0

C10
South **FED USGS** **USGS2006948**
1/2 - 1 Mile
Lower

Agency cd:	USGS	Site no:	453409093135601
Site name:	036N23W32ABB		
Latitude:	453409		
Longitude:	931356	Dec lat:	45.56912972
Dec lon:	-93.23244806	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	27
State:	27	County:	059
Country:	US	Land net:	NWNWNES32 T036N R23W
Location map:	CAMBRIDGE	Map scale:	62500
Altitude:	910.00	Altitude method:	M
Altitude accuracy:	5	Altitude datum:	NGVD29
Hydrologic:	Rum. Minnesota. Area = 1560 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19540801
Date inventoried:	Not Reported	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	324	Hole depth:	Not Reported
Source of depth data:	Not Reported	Project number:	Not Reported
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1969-07-08	Ground water data end date:	1969-07-08
Ground water data count:	1		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database | EDR ID Number

D11
ENE
1/2 - 1 Mile
Higher

MN WELLS **MN0000140019**

Relateid:	0000440644	County c:	Isanti
Unique no:	00440644	Wellname:	CAMBRIDGE VET CLINIC
Township:	36	Range:	23
Range dir:	W	Section:	28
Subsection:	BCADDD	Mgsquad c:	Cambridge
Elevation:	963		
Elev mc:	7.5 minute topographic map (+/- 5 feet)		
Status c:	Active		
Use c:	Domestic	Loc mc:	Not Reported
Loc src:	Minnesota Geological Survey	Data src:	Traut M.j. Well Co.
Depth drll:	86		
Depth comp:	86		
Date drll:	19871130		
Case diam:	4		
Case depth:	82		
Grout:	Well grouted, type unknown	Pollut dst:	50
Pollut dir:	N	Pollut typ:	SDF
Strat date:	19910814	Strat upd:	20020715
Strat src:	Minnesota Geological Survey	Strat geol:	Unknown
Strat mc:	MGS provisional [MGS] unspecif		
Depth2bdrk:	-999		
First bdrk:	Not Reported	Last strat:	Sand
Ohtopunit:	QFUB	Ohbotunit:	QFUB
Aquifer:	QBAA	Cuttings:	Not Reported
Core:	Not Reported	Bhgeophys:	Not Reported
Geochem:	Not Reported	Waterchem:	Not Reported
Obwell:	Not Reported	Swl:	Y
Igwis:	Not Reported	Input src:	Minnesota Geological Survey
Unused:	Not Reported	Entry date:	19900925
Updt date:	20020715	Site id:	MN0000140019

Construction 1 Information:

Relateid:	0000440644	Drill meth:	Non-specified Rotary
Drill flud:	Revert	Hydrofrac:	Not Reported
Hffrom:	Not Reported		
Hfto:	Not Reported		
Case mat:	Plastic	Case joint:	G
Case top:	2		
Drive shoe:	Not Reported	Case type:	Single casing
Screen:	Y		
Ohtopfeet:	Not Reported		
Ohbotfeet:	Not Reported		
Screen mfg:	JOHNSON	Screen typ:	stainless steel
Ptlss mfg:	MAAS	Ptlss mdl:	4J1
Bsmt offst:	Not Reported	Csg top ok:	Y
Csg at grd:	Not Reported	Plstc prot:	Not Reported
Disinfectd:	Y	Pump inst:	Y
Pump date:	19880113	Pump mfg:	AERMOTOR
Pump model:	A12B50		
Pump hp:	.5		
Pump volts:	230		
Dropp len:	65		

Dropp mat:	P	Pump cpcty:	12
Pump type:	Submersible	Variance:	Not Reported
Drllr name:	GARDELL & ROB	Entry date:	19900925
Updt date:	20020715		

Construction 2 Information:

Relateid:	0000440644	Constype:	C
From depth:	0		
To depth:	82		
Diameter:	4		
Slot:	Not Reported		
Length:	Not Reported		
Material:	Not Reported		
Amount:	Not Reported		
Units:	Not Reported		

Well Information:

Relateid:	0000440644	Meas type:	Well installation
Meas date:	19871130	Meas time:	Not Reported
M pt code:	Land surface		
Meas point:	0		
Measuremt:	34		
Meas elev:	929		
Data src:	Traut M.j. Well Co.	Program:	CWI
Entry date:	19900925	Updt date:	0

Stratigraphy Information:

Relateid:	0000440644	Depth top:	0
Depth bot:	1	Drllr desc:	TOPSOIL
Color:	BROWN	Hardness:	SOFT
Strat:	RUUB		
Lith prim:	Soil		
Lith sec:	Organic Deposits	Lith minor:	Not Reported

D12
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS2006881**

Agency cd:	MN040	Site no:	453454093131001
Site name:	36N23W28BCADDD01		
Latitude:	453454		
Longitude:	0931310	Dec lat:	45.58162944
Dec lon:	-93.21966944	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	27
State:	27	County:	059
Country:	US	Land net:	NESWNWS28 T 36N R23W
Location map:	CAMBRIDGE	Map scale:	24000
Altitude:	963	Altitude method:	M
Altitude accuracy:	5	Altitude datum:	NGVD29
Hydrologic:	Rum. Minnesota. Area = 1560 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19871130
Date inventoried:	19900925	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Confined single aquifer		
Aquifer:	GLACIAL BURIED SAND & GRAVEL		
Well depth:	86	Hole depth:	86
Source of depth data:	Not Reported	Project number:	462714100
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1987-11-30	Ground water data end date:	1987-11-30
Ground water data count:	1		

Ground-water levels, Number of Measurements: 0

C13
SSW
1/2 - 1 Mile
Lower

FED USGS **USGS2006946**

Agency cd:	MN040	Site no:	453408093140001
Site name:	36N23W32ACB 01-2		
Latitude:	453408		
Longitude:	0931400	Dec lat:	45.56885194
Dec lon:	-93.23355917	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	27
State:	27	County:	059
Country:	US	Land net:	NWSWNES32 T 36N R23W
Location map:	CAMBRIDGE	Map scale:	24000
Altitude:	960	Altitude method:	M
Altitude accuracy:	5	Altitude datum:	NGVD29
Hydrologic:	Rum. Minnesota. Area = 1560 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19641205
Date inventoried:	19901009	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	PRECAMBIAN ERATHEM		
Well depth:	630	Hole depth:	630
Source of depth data:	Not Reported	Project number:	462714100
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1965-05-00	Ground water data end date:	1965-05-00
Ground water data count:	1		

Ground-water levels, Number of Measurements: 0

E14
NE
1/2 - 1 Mile
Lower

MN WELLS **MN0000136717**

Relateid:	0000436706	County c:	Isanti
Unique no:	00436706	Wellname:	LAUSENG, GIL
Township:	36	Range:	23
Range dir:	W	Section:	28
Subsection:	BCAABD	Mgsquad c:	Cambridge
Elevation:	950		
Elev mc:	7.5 minute topographic map (+/- 5 feet)		
Status c:	Active		
Use c:	Domestic	Loc mc:	Not Reported
Loc src:	Minnesota Geological Survey	Data src:	Rosga Well Co.
Depth drll:	79		

Depth comp:	79		
Date drll:	19870819		
Case diam:	4		
Case depth:	75		
Grout:	Well grouted, type unknown	Pollut dst:	50
Pollut dir:	E	Pollut typ:	SDF
Strat date:	19910814	Strat upd:	20020715
Strat src:	Minnesota Geological Survey	Strat geol:	Unknown
Strat mc:	MGS provisional [MGS] unspecif		
Depth2bdrk:	-999		
First bdrk:	Not Reported	Last strat:	Sand
Ohtopunit:	QFUB	Ohbotunit:	QFUB
Aquifer:	QBAA	Cuttings:	Not Reported
Core:	Not Reported	Bhgeophys:	Not Reported
Geochem:	Not Reported	Waterchem:	Not Reported
Obwell:	Not Reported	Swl:	Y
Igwis:	Not Reported	Input src:	Minnesota Geological Survey
Unused:	Not Reported	Entry date:	19900925
Updt date:	20040204	Site id:	MN0000136717

Construction 1 Information:

Relateid:	0000436706	Drill meth:	Non-specified Rotary
Drill flud:	Bentonite	Hydrofrac:	Not Reported
Hffrom:	Not Reported		
Hfto:	Not Reported		
Case mat:	Steel (black or low carbon)	Case joint:	T
Case top:	1		
Drive shoe:	Not Reported	Case type:	Single casing
Screen:	Y		
Ohtopfeet:	Not Reported		
Ohbotfeet:	Not Reported		
Screen mfg:	JOHNSON	Screen typ:	stainless steel
Ptlss mfg:	Not Reported	Ptlss mdl:	Not Reported
Bsmt offst:	Not Reported	Csg top ok:	Not Reported
Csg at grd:	Not Reported	Plstc prot:	Not Reported
Disinfectd:	Y	Pump inst:	Y
Pump date:	19870825	Pump mfg:	GOULDS
Pump model:	10EJ05412		
Pump hp:	.5		
Pump volts:	230		
Dropp len:	67		
Dropp mat:	P	Pump cpcty:	10
Pump type:	Submersible	Variance:	Not Reported
Drllr name:	BUSSE, G.	Entry date:	19900925
Updt date:	20020715		

Construction 2 Information:

Relateid:	0000436706	Constype:	C
From depth:	0		
To depth:	75		
Diameter:	4		
Slot:	Not Reported		
Length:	Not Reported		
Material:	Not Reported		
Amount:	11		
Units:	Not Reported		

Well Information:

Relateid:	0000436706	Meas type:	Well installation
Meas date:	19870819	Meas time:	Not Reported
M pt code:	Land surface		
Meas point:	0		
Measuremt:	24		
Meas elev:	926		
Data src:	Rosga Well Co.	Program:	CWI
Entry date:	19900925	Updt date:	0

Pump Test Information:

Relateid:	0000436706	Pumptestid:	1
Test date:	19870800		
Start meas:	24		
Flow rate:	9		
Duration:	1		
Pump meas:	75		

Stratigraphy Information:

Relateid:	0000436706	Depth top:	0
Depth bot:	8	Drllr desc:	CLAY
Color:	YELLOW	Hardness:	MEDIUM
Strat:	Quaternary clay-sort undiff or unknown-yellow		
Lith prim:	Clay		
Lith sec:	Not Reported	Lith minor:	Not Reported

E15
NE
1/2 - 1 Mile
Lower

FED USGS **USGS2006734**

Agency cd:	MN040	Site no:	453459093131201
Site name:	36N23W28BCAABD01		
Latitude:	453459		
Longitude:	0931312	Dec lat:	45.58301833
Dec lon:	-93.220225	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	27
State:	27	County:	059
Country:	US	Land net:	NESWNWS28 T 36N R23W
Location map:	CAMBRIDGE	Map scale:	24000
Altitude:	950	Altitude method:	M
Altitude accuracy:	5	Altitude datum:	NGVD29
Hydrologic:	Rum. Minnesota. Area = 1560 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19870819
Date inventoried:	19900925	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Confined single aquifer		
Aquifer:	GLACIAL BURIED SAND & GRAVEL		
Well depth:	79	Hole depth:	79
Source of depth data:	Not Reported	Project number:	462714100
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1987-08-19	Ground water data end date:	1987-08-19
Ground water data count:	1		

Ground-water levels, Number of Measurements: 0

F16
WNW
1/2 - 1 Mile
Lower

FED USGS **USGS2006884**

Agency cd:	MN040	Site no:	453456093142801
Site name:	36N23W29BCACDA01		
Latitude:	453456		
Longitude:	0931428	Dec lat:	45.58218528
Dec lon:	-93.24133694	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	27
State:	27	County:	059
Country:	US	Land net:	NESWNWS29 T 36N R23W
Location map:	CAMBRIDGE	Map scale:	24000
Altitude:	950	Altitude method:	M
Altitude accuracy:	5	Altitude datum:	NGVD29
Hydrologic:	Rum. Minnesota. Area = 1560 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19860916
Date inventoried:	19901009	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Confined single aquifer		
Aquifer:	GLACIAL BURIED SAND & GRAVEL		
Well depth:	81	Hole depth:	81
Source of depth data:	Not Reported	Project number:	462714100
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1986-09-16	Ground water data end date:	1990-08-02
Ground water data count:	2		

Ground-water levels, Number of Measurements: 0

F17
WNW
1/2 - 1 Mile
Lower

MN WELLS **MN0000122242**

Relateid:	0000417723	County c:	Isanti
Unique no:	00417723	Wellname:	RUPRECHT, MICHAEL
Township:	36	Range:	23
Range dir:	W	Section:	29
Subsection:	BCACDA	Mgsquad c:	Cambridge
Elevation:	950		
Elev mc:	7.5 minute topographic map (+/- 5 feet)		
Status c:	Active		
Use c:	Domestic	Loc mc:	Information from owner
Loc src:	Minnesota Geological Survey	Data src:	Lindsay Well Co.
Depth drll:	81		

Depth comp:	81		
Date drll:	19860916		
Case diam:	4		
Case depth:	78		
Grout:	Well known to be not grouted	Pollut dst:	80
Pollut dir:	N	Pollut typ:	SDF
Strat date:	19910814	Strat upd:	20020715
Strat src:	Minnesota Geological Survey	Strat geol:	Unknown
Strat mc:	MGS provisional [MGS] unspecif		
Depth2bdrk:	-999		
First bdrk:	Not Reported	Last strat:	Sand
Ohtopunit:	QFUB	Ohbotunit:	QFUB
Aquifer:	QBAA	Cuttings:	Not Reported
Core:	Not Reported	Bhgeophys:	Not Reported
Geochem:	Not Reported	Waterchem:	Y
Obwell:	Not Reported	Swl:	Y
Igwis:	Not Reported	Input src:	Minnesota Geological Survey
Unused:	Not Reported	Entry date:	19901009
Updt date:	20020715	Site id:	MN0000122242

Construction 1 Information:

Relateid:	0000417723	Drill meth:	Cable Tool
Drill flud:	Not Reported	Hydrofrac:	Not Reported
Hffrom:	Not Reported		
Hfto:	Not Reported		
Case mat:	Steel (black or low carbon)	Case joint:	T
Case top:	0		
Drive shoe:	Not Reported	Case type:	Single casing
Screen:	Y		
Ohtopfeet:	Not Reported		
Ohbotfeet:	Not Reported		
Screen mfg:	JOHNSON	Screen typ:	stainless steel
Ptlss mfg:	MERRILL	Ptlss mdl:	SPK4/5
Bsmt offst:	Not Reported	Csg top ok:	Not Reported
Csg at grd:	Not Reported	Plstc prot:	Not Reported
Disinfectd:	Y	Pump inst:	Y
Pump date:	19860916	Pump mfg:	AERMOTOR
Pump model:	A12-50		
Pump hp:	.5		
Pump volts:	230		
Dropp len:	63		
Dropp mat:	G	Pump cpcty:	12
Pump type:	Submersible	Variance:	Not Reported
Drllr name:	LINDSAY, R.	Entry date:	19901009
Updt date:	20020715		

Construction 2 Information:

Relateid:	0000417723	Constype:	C
From depth:	0		
To depth:	78		
Diameter:	4		
Slot:	Not Reported		
Length:	Not Reported		
Material:	Not Reported		
Amount:	Not Reported		
Units:	Not Reported		

Well Information:

Relateid:	0000417723	Meas type:	Well installation
Meas date:	19900802	Meas time:	Not Reported
M pt code:	Land surface		
Meas point:	0		
Measuremt:	43.2		
Meas elev:	906.9		
Data src:	MGS	Program:	CWI
Entry date:	19901009	Updt date:	0

Pump Test Information:

Relateid:	0000417723	Pumptestid:	1
Test date:	19860900		
Start meas:	39		
Flow rate:	20		
Duration:	2		
Pump meas:	39		

Stratigraphy Information:

Relateid:	0000417723	Depth top:	0
Depth bot:	18	Drllr desc:	SAND
Color:	BROWN	Hardness:	MEDIUM
Strat:	Quaternary sand-sort undiff or unknown-brown		
Lith prim:	Sand		
Lith sec:	Not Reported	Lith minor:	Not Reported

18
SSW
1/2 - 1 Mile
Higher

FED USGS **USGS2006938**

Agency cd:	MN040	Site no:	453406093135801
Site name:	36N23W32ACB 01-1		
Latitude:	453406		
Longitude:	0931358	Dec lat:	45.56829639
Dec lon:	-93.23300361	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	27
State:	27	County:	059
Country:	US	Land net:	NWSWNES32 T 36N R23W
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	Not Reported	Altitude method:	Not Reported
Altitude accuracy:	Not Reported	Altitude datum:	Not Reported
Hydrologic:	Rum. Minnesota. Area = 1560 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19920430
Date inventoried:	19930104	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	161	Hole depth:	161
Source of depth data:	Not Reported	Project number:	462714100
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1992-04-30	Ground water data end date:	1992-04-30
Ground water data count:	1		

Ground-water levels, Number of Measurements: 0

G19
ENE **FED USGS** **USGS2006886**
1/2 - 1 Mile
Lower

Agency cd:	MN040	Site no:	453457093130701
Site name:	36N23W28BDBBCC01		
Latitude:	453457		
Longitude:	0931307	Dec lat:	45.58246278
Dec lon:	-93.21883611	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	27
State:	27	County:	059
Country:	US	Land net:	NWSENWS28 T 36N R23W
Location map:	CAMBRIDGE	Map scale:	62500
Altitude:	955	Altitude method:	M
Altitude accuracy:	5	Altitude datum:	NGVD29
Hydrologic:	Rum. Minnesota. Area = 1560 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	196609
Date inventoried:	19901009	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Confined single aquifer		
Aquifer:	GLACIAL BURIED SAND & GRAVEL		
Well depth:	108	Hole depth:	108
Source of depth data:	Not Reported	Project number:	462714100
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1966-09-00	Ground water data end date:	1966-09-00
Ground water data count:	1		

Ground-water levels, Number of Measurements: 0

G20
ENE **MN WELLS** **MN0000077718**
1/2 - 1 Mile
Lower

Relateid:	0000219410	County c:	Isanti
Unique no:	00219410	Wellname:	MAGNUSON, DR. RAY
Township:	36	Range:	23
Range dir:	W	Section:	28
Subsection:	BDBBCC	Mgsquad c:	152
Elevation:	955		
Elev mc:	7.5 minute topographic map (+/- 5 feet)		
Status c:	Active		
Use c:	Domestic	Loc mc:	Not Reported
Loc src:	Minnesota Geological Survey	Data src:	Nelson Well Drilling Co
Depth drll:	108		

Depth comp:	108		
Date drll:	196609		
Case diam:	4		
Case depth:	Not Reported		
Grout:	Not Reported	Pollut dst:	-999
Pollut dir:	Not Reported	Pollut typ:	Not Reported
Strat date:	19910814	Strat upd:	20020715
Strat src:	Minnesota Geological Survey	Strat geol:	Unknown
Strat mc:	MGS provisional [MGS] unspecif		
Depth2bdrk:	-999		
First bdrk:	Not Reported	Last strat:	Gravel (+larger)
Ohtopunit:	QGUU	Ohbotunit:	QGUU
Aquifer:	QBAA	Cuttings:	Not Reported
Core:	Not Reported	Bhgeophys:	Not Reported
Geochem:	Not Reported	Waterchem:	Not Reported
Obwell:	Not Reported	Swl:	Y
Igwis:	Not Reported	Input src:	Minnesota Geological Survey
Unused:	Not Reported	Entry date:	19901009
Updt date:	20020715	Site id:	MN0000077718

Construction 1 Information:

Relateid:	0000219410	Drill meth:	Not Reported
Drill flud:	Not Reported	Hydrofrac:	Not Reported
Hffrom:	Not Reported		
Hfto:	Not Reported		
Case mat:	Not Reported	Case joint:	Not Reported
Case top:	0		
Drive shoe:	Not Reported	Case type:	Single casing
Screen:	Y		
Ohtopfeet:	Not Reported		
Ohbotfeet:	Not Reported		
Screen mfg:	Not Reported	Screen typ:	Not Reported
Ptlss mfg:	Not Reported	Ptlss mdl:	Not Reported
Bsmt offst:	Not Reported	Csg top ok:	Not Reported
Csg at grd:	Not Reported	Plstc prot:	Not Reported
Disinfectd:	Not Reported	Pump inst:	Y
Pump date:	Not Reported	Pump mfg:	Not Reported
Pump model:	Not Reported		
Pump hp:	.5		
Pump volts:	Not Reported		
Dropp len:	Not Reported		
Dropp mat:	Not Reported	Pump cpcty:	Not Reported
Pump type:	Submersible	Variance:	Not Reported
Drllr name:	Not Reported	Entry date:	19901009
Updt date:	20020715		

Construction 2 Information:

Relateid:	0000219410	Constype:	C
From depth:	0		
To depth:	Not Reported		
Diameter:	4		
Slot:	Not Reported		
Length:	Not Reported		
Material:	Not Reported		
Amount:	Not Reported		
Units:	Not Reported		

Well Information:

Relateid:	0000219410	Meas type:	Well installation
Meas date:	196609	Meas time:	Not Reported
M pt code:	Land surface		
Meas point:	0		
Measuremt:	27		
Meas elev:	928		
Data src:	Nelson Well Drilling Co	Program:	CWI
Entry date:	19901009	Updt date:	0

Pump Test Information:

Relateid:	0000219410	Pumptestid:	1
Test date:	19660900		
Start meas:	27		
Flow rate:	10		
Duration:	Not Reported		
Pump meas:	31		

Remarks Information:

Relateid:	0000219410	Seq no:	1
Remarks:	SODERBERG ADD. BLK 1 LOT 4.		

Stratigraphy Information:

Relateid:	0000219410	Depth top:	0
Depth bot:	33	Drllr desc:	SAND
Color:	Not Reported	Hardness:	Not Reported
Strat:	Quaternary sand-sort undiff or unknown-unknown or unspecified		
Lith prim:	Sand		
Lith sec:	Not Reported	Lith minor:	Not Reported

H21
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS2006937**

Agency cd:	USGS	Site no:	453406093132401
Site name:	036N23W33BCB		
Latitude:	453406		
Longitude:	931324	Dec lat:	45.56829639
Dec lon:	-93.22355889	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	27
State:	27	County:	059
Country:	US	Land net:	NWSWNWS33 T036N R23W
Location map:	CAMBRIDGE	Map scale:	24000
Altitude:	960.00	Altitude method:	M
Altitude accuracy:	5	Altitude datum:	NGVD29
Hydrologic:	Rum. Minnesota. Area = 1560 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19300521
Date inventoried:	Not Reported	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	252	Hole depth:	Not Reported
Source of depth data:	Not Reported	Project number:	Not Reported
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1930-03-21	Ground water data end date:	1930-03-21
Ground water data count:	1		

Ground-water levels, Number of Measurements: 0

I22
South
1/2 - 1 Mile
Higher

FED USGS **USGS2006929**

Agency cd:	MN040	Site no:	453402093134301
Site name:	36N23W32ADBCCC01		
Latitude:	453402		
Longitude:	0931343	Dec lat:	45.56718528
Dec lon:	-93.22883667	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	27
State:	27	County:	059
Country:	US	Land net:	NWSENES32 T 36N R23W
Location map:	CAMBRIDGE	Map scale:	62500
Altitude:	962	Altitude method:	M
Altitude accuracy:	5	Altitude datum:	NGVD29
Hydrologic:	Rum. Minnesota. Area = 1560 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19780927
Date inventoried:	19901009	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	IRONTON AND GALESVILLE SANDSTONES		
Well depth:	139	Hole depth:	139
Source of depth data:	Not Reported	Project number:	462714100
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1978-09-27	Ground water data end date:	1978-09-27
Ground water data count:	1		

Ground-water levels, Number of Measurements: 0

J23
NW
1/2 - 1 Mile
Lower

FED USGS **USGS2006743**

Agency cd:	USGS	Site no:	453504093142801
Site name:	036N23W29BBD		
Latitude:	453504		
Longitude:	931428	Dec lat:	45.5844075
Dec lon:	-93.24133694	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	27
State:	27	County:	059
Country:	US	Land net:	SENWNWS29 T036N R23W
Location map:	CAMBRIDGE	Map scale:	62500

Altitude:	960.00	Altitude method:	M
Altitude accuracy:	5	Altitude datum:	NGVD29
Hydrologic:	Rum. Minnesota. Area = 1560 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19631001
Date inventoried:	Not Reported	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	215	Hole depth:	Not Reported
Source of depth data:	Not Reported	Project number:	Not Reported
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

I24
South **MN WELLS** **MN0000035999**
1/2 - 1 Mile
Higher

Relateid:	0000156252	County c:	Isanti
Unique no:	00156252	Wellname:	CHRISTIANSON, MARIA
Township:	36	Range:	23
Range dir:	W	Section:	32
Subsection:	ADBCCC	Mgsquad c:	152
Elevation:	962		
Elev mc:	7.5 minute topographic map (+/- 5 feet)		
Status c:	Active		
Use c:	Domestic	Loc mc:	Lot Block
Loc src:	Minnesota Geological Survey	Data src:	Mc Alpine's Well Co.
Depth drll:	139		
Depth comp:	139		
Date drll:	19780927		
Case diam:	4		
Case depth:	134		
Grout:	Well grouted, type unknown	Pollut dst:	50
Pollut dir:	Not Reported	Pollut typ:	SDF
Strat date:	19910814	Strat upd:	20020820
Strat src:	Minnesota Geological Survey	Strat geol:	Unknown
Strat mc:	MGS provisional [MGS] unspecif		
Depth2bdrk:	120		
First bdrk:	CFRN	Last strat:	Ironton-Galesville
Ohtopunit:	CIGL	Ohbotunit:	CIGL
Aquifer:	CIGL	Cuttings:	Not Reported
Core:	Not Reported	Bhgeophys:	Not Reported
Geochem:	Not Reported	Waterchem:	Not Reported
Obwell:	Not Reported	Swl:	Y
Igwis:	Not Reported	Input src:	Minnesota Geological Survey
Unused:	Not Reported	Entry date:	19901009
Updt date:	20020820	Site id:	MN0000035999

Construction 1 Information:

Relateid:	0000156252	Drill meth:	Non-specified Rotary
Drill flud:	Not Reported	Hydrofrac:	Not Reported
Hffrom:	Not Reported		
Hfto:	Not Reported		
Case mat:	Steel (black or low carbon)	Case joint:	T
Case top:	1		
Drive shoe:	Y	Case type:	Single casing
Screen:	Y		
Ohtopfeet:	Not Reported		
Ohbotfeet:	Not Reported		
Screen mfg:	JOHNSON	Screen typ:	stainless steel
Ptlss mfg:	Not Reported	Ptlss mdl:	Not Reported
Bsmt offst:	Not Reported	Csg top ok:	Not Reported
Csg at grd:	Not Reported	Plstc prot:	Not Reported
Disinfectd:	Y	Pump inst:	Y
Pump date:	19780928	Pump mfg:	AERMOTOR
Pump model:	SD1250		
Pump hp:	.5		
Pump volts:	230		
Dropp len:	42		
Dropp mat:	Not Reported	Pump cpcty:	10
Pump type:	Submersible	Variance:	Not Reported
Drllr name:	MCALPINE, G.	Entry date:	19901009
Updt date:	20020820		

Construction 2 Information:

Relateid:	0000156252	Constype:	C
From depth:	0		
To depth:	134		
Diameter:	4		
Slot:	Not Reported		
Length:	Not Reported		
Material:	Not Reported		
Amount:	12		
Units:	Not Reported		

Well Information:

Relateid:	0000156252	Meas type:	Well installation
Meas date:	19780927	Meas time:	Not Reported
M pt code:	Land surface		
Meas point:	0		
Measuremt:	35		
Meas elev:	927		
Data src:	Mc Alpine's Well Co.	Program:	CWI
Entry date:	19901009	Updt date:	0

Pump Test Information:

Relateid:	0000156252	Pumptestid:	1
Test date:	19780900		
Start meas:	35		
Flow rate:	25		
Duration:	2		
Pump meas:	35		

Remarks Information:

Relateid:	0000156252	Seq no:	1
Remarks:	CONGERS ADDITION BLOCK 21 WEST 0.5 OF LOT 5 + LOT 6		

Stratigraphy Information:

Relateid:	0000156252	Depth top:	0
Depth bot:	45	Drllr desc:	SAND
Color:	BROWN	Hardness:	SOFT
Strat:	Quaternary sand-sort undiff or unknown-brown		
Lith prim:	Sand		
Lith sec:	Not Reported	Lith minor:	Not Reported

J25
NW
1/2 - 1 Mile
Higher

MN WELLS **MN0000076669**

Relateid:	0000217866	County c:	Isanti
Unique no:	00217866	Wellname:	STENSRUD, RODELL
Township:	36	Range:	23
Range dir:	W	Section:	29
Subsection:	BBCADD	Mgsquad c:	152
Elevation:	962		
Elev mc:	7.5 minute topographic map (+/- 5 feet)		
Status c:	Active		
Use c:	Domestic	Loc mc:	Information from neighbor
Loc src:	Minnesota Geological Survey	Data src:	Not Reported
Depth drll:	215		
Depth comp:	215		
Date drll:	196310		
Case diam:	4		
Case depth:	215		
Grout:	Not Reported	Pollut dst:	-999
Pollut dir:	Not Reported	Pollut typ:	Not Reported
Strat date:	19910814	Strat upd:	20020820
Strat src:	Minnesota Geological Survey	Strat geol:	Unknown
Strat mc:	MGS provisional [MGS] unspecif		
Depth2bdrk:	129		
First bdrk:	CIGL	Last strat:	Eau Claire
Ohtopunit:	CIGL	Ohbotunit:	CECR
Aquifer:	CIGE	Cuttings:	Not Reported
Core:	Not Reported	Bhgeophys:	Not Reported
Geochem:	Not Reported	Waterchem:	Not Reported
Obwell:	Not Reported	Swl:	Y
Igwis:	Not Reported	Input src:	Minnesota Geological Survey
Unused:	Not Reported	Entry date:	19901009
Updt date:	20020820	Site id:	MN0000076669

Address Information:

Relateid:	0000217866	Name:	RODELL STENSRUD
Addtype c:	Both	House no:	RR 1
Street:	Not Reported	Road type:	Not Reported
Road dir:	Not Reported	City:	CAMBRIDGE
State:	MN	Zipcode:	55008
Entry date:	19901009	Updt date:	19910814
Other:	Not Reported		

Construction 1 Information:

Relateid:	0000217866	Drill meth:	Not Reported
Drill flud:	Not Reported	Hydrofrac:	Not Reported
Hffrom:	Not Reported		
Hfto:	Not Reported		
Case mat:	Not Reported	Case joint:	Not Reported
Case top:	0		
Drive shoe:	Not Reported	Case type:	Single casing
Screen:	Not Reported		
Ohtopfeet:	Not Reported		
Ohbotfeet:	Not Reported		
Screen mfg:	Not Reported	Screen typ:	Not Reported
Ptlss mfg:	Not Reported	Ptlss mdl:	Not Reported
Bsmt offst:	Not Reported	Csg top ok:	Not Reported
Csg at grd:	Not Reported	Plstc prot:	Not Reported
Disinfectd:	Not Reported	Pump inst:	Y
Pump date:	Not Reported	Pump mfg:	Not Reported
Pump model:	Not Reported		
Pump hp:	.5		
Pump volts:	Not Reported		
Dropp len:	Not Reported		
Dropp mat:	Not Reported	Pump cpcty:	Not Reported
Pump type:	Submersible	Variance:	Not Reported
Drllr name:	BERGLUND, A.	Entry date:	19901009
Updt date:	20020820		

Construction 2 Information:

Relateid:	0000217866	Constype:	C
From depth:	0		
To depth:	215		
Diameter:	4		
Slot:	Not Reported		
Length:	Not Reported		
Material:	Not Reported		
Amount:	Not Reported		
Units:	Not Reported		

Well Information:

Relateid:	0000217866	Meas type:	Well installation
Meas date:	196310	Meas time:	Not Reported
M pt code:	Land surface		
Meas point:	0		
Measuremt:	50		
Meas elev:	912		
Data src:	Not Reported	Program:	CWI
Entry date:	19901009	Updt date:	0

Pump Test Information:

Relateid:	0000217866	Pumptestid:	1
Test date:	19631000		
Start meas:	50		
Flow rate:	15		
Duration:	4		
Pump meas:	60		

Stratigraphy Information:

Relateid:	0000217866	Depth top:	0
Depth bot:	24	Drllr desc:	SAND
Color:	Not Reported	Hardness:	Not Reported
Strat:	Quaternary sand-sort undiff or unknown-unknown or unspecified		
Lith prim:	Sand		
Lith sec:	Not Reported	Lith minor:	Not Reported

H26
SSE
1/2 - 1 Mile
Higher

MN WELLS **MN0000076670**

Relateid:	0000217869	County c:	Isanti
Unique no:	00217869	Wellname:	G.N.R.R.
Township:	36	Range:	23
Range dir:	W	Section:	33
Subsection:	BBCDCA	Mgsquad c:	152
Elevation:	960		
Elev mc:	7.5 minute topographic map (+/- 5 feet)		
Status c:	Active		
Use c:	Industrial	Loc mc:	Not Reported
Loc src:	Minnesota Geological Survey	Data src:	Not Reported
Depth drll:	252		
Depth comp:	252		
Date drll:	19300321		
Case diam:	10		
Case depth:	139		
Grout:	Not Reported	Pollut dst:	-999
Pollut dir:	Not Reported	Pollut typ:	Not Reported
Strat date:	19910814	Strat upd:	20020820
Strat src:	Minnesota Geological Survey	Strat geol:	Unknown
Strat mc:	MGS provisional [MGS] unspecif		
Depth2bdrk:	175		
First bdrk:	CECR	Last strat:	Mt.Simon
Ohtopunit:	QUUU	Ohbotunit:	CMTS
Aquifer:	MTPL	Cuttings:	Not Reported
Core:	Not Reported	Bhgeophys:	Not Reported
Geochem:	Not Reported	Waterchem:	Not Reported
Obwell:	Not Reported	Swl:	Y
Igwis:	Not Reported	Input src:	Minnesota Geological Survey
Unused:	Not Reported	Entry date:	19901009
Updt date:	20020820	Site id:	MN0000076670

Construction 1 Information:

Relateid:	0000217869	Drill meth:	Not Reported
Drill flud:	Not Reported	Hydrofrac:	Not Reported
Hffrom:	Not Reported		
Hfto:	Not Reported		
Case mat:	Not Reported	Case joint:	Not Reported
Case top:	0		
Drive shoe:	Not Reported	Case type:	Step down
Screen:	Not Reported		
Ohtopfeet:	Not Reported		
Ohbotfeet:	Not Reported		

Screen mfg:	Not Reported	Screen typ:	Not Reported
Ptlss mfg:	Not Reported	Ptlss mdl:	Not Reported
Bsmt offst:	Not Reported	Csg top ok:	Not Reported
Csg at grd:	Not Reported	Plstc prot:	Not Reported
Disinfectd:	Not Reported	Pump inst:	Not Reported
Pump date:	Not Reported	Pump mfg:	Not Reported
Pump model:	Not Reported		
Pump hp:	0		
Pump volts:	Not Reported		
Dropp len:	Not Reported		
Dropp mat:	Not Reported	Pump cpcty:	Not Reported
Pump type:	Not Reported	Variance:	Not Reported
Drllr name:	Not Reported	Entry date:	19901009
Updt date:	20020820		

Construction 2 Information:

Relateid:	0000217869	Constype:	C
From depth:	0		
To depth:	109		
Diameter:	12		
Slot:	Not Reported		
Length:	Not Reported		
Material:	Not Reported		
Amount:	Not Reported		
Units:	Not Reported		

Well Information:

Relateid:	0000217869	Meas type:	Well installation
Meas date:	19300321	Meas time:	Not Reported
M pt code:	Land surface		
Meas point:	0		
Measuremt:	36		
Meas elev:	924		
Data src:	Not Reported	Program:	CWI
Entry date:	19901009	Updt date:	0

Pump Test Information:

Relateid:	0000217869	Pumptestid:	1
Test date:	19300300		
Start meas:	36		
Flow rate:	150		
Duration:	Not Reported		
Pump meas:	50		

Relateid:	0000217869	Pumptestid:	2
Test date:	19300300		
Start meas:	36		
Flow rate:	100		
Duration:	Not Reported		
Pump meas:	45		

Remarks Information:

Relateid:	0000217869	Seq no:	1
Remarks:	CASING: 012 TO 0109;010 TO 0139.		

Relateid:	0000217869	Seq no:	2
Remarks:	CASING: 012 TO 0109;010 TO 0139;		

Stratigraphy Information:

Relateid:	0000217869	Depth top:	0
Depth bot:	25	Drllr desc:	YELLOW SANDY CLAY
Color:	YELLOW	Hardness:	Not Reported
Strat:	Quaternary clay+sand-sort undiff or unknown-yellow		
Lith prim:	Clay		
Lith sec:	Sand	Lith minor:	Not Reported

27
WNW
1/2 - 1 Mile
Lower

MN WELLS **MN0000083418**

Relateid:	0000227413	County c:	Isanti
Unique no:	00227413	Wellname:	SCHULTZ
Township:	36	Range:	23
Range dir:	W	Section:	30
Subsection:	DAAABA	Mgsquad c:	152
Elevation:	951		
Elev mc:	7.5 minute topographic map (+/- 5 feet)		
Status c:	Active		
Use c:	Not Reported	Loc mc:	Not Reported
Loc src:	Minnesota Geological Survey	Data src:	Nelson Well Drilling Co
Depth drll:	126		
Depth comp:	126		
Date drll:	19680506		
Case diam:	4		
Case depth:	97		
Grout:	Not Reported	Pollut dst:	-999
Pollut dir:	Not Reported	Pollut typ:	Not Reported
Strat date:	19910814	Strat upd:	20020820
Strat src:	Minnesota Geological Survey	Strat geol:	Unknown
Strat mc:	MGS provisional [MGS] unspecif		
Depth2bdrk:	96		
First bdrk:	CFIG	Last strat:	Franconia-Ironton-Galesvill
Ohtopunit:	CFRN	Ohbotunit:	CIGL
Aquifer:	CFIG	Cuttings:	Not Reported
Core:	Not Reported	Bhgeophys:	Not Reported
Geochem:	Not Reported	Waterchem:	Not Reported
Obwell:	Not Reported	Swl:	Not Reported
Igwis:	Not Reported	Input src:	Minnesota Geological Survey
Unused:	Not Reported	Entry date:	19901009
Updt date:	20020820	Site id:	MN0000083418

Construction 1 Information:

Relateid:	0000227413	Drill meth:	Not Reported
Drill flud:	Not Reported	Hydrofrac:	Not Reported
Hffrom:	Not Reported		
Hfto:	Not Reported		
Case mat:	Not Reported	Case joint:	Not Reported
Case top:	0		
Drive shoe:	Not Reported	Case type:	Single casing
Screen:	N		
Ohtopfeet:	97		
Ohbotfeet:	126		

Screen mfg:	Not Reported	Screen typ:	Not Reported
Ptlss mfg:	Not Reported	Ptlss mdl:	Not Reported
Bsmt offst:	Not Reported	Csg top ok:	Not Reported
Csg at grd:	Not Reported	Plstc prot:	Not Reported
Disinfectd:	Not Reported	Pump inst:	Not Reported
Pump date:	Not Reported	Pump mfg:	Not Reported
Pump model:	Not Reported		
Pump hp:	0		
Pump volts:	Not Reported		
Dropp len:	Not Reported		
Dropp mat:	Not Reported	Pump cpcty:	Not Reported
Pump type:	Not Reported	Variance:	Not Reported
Drllr name:	Not Reported	Entry date:	19901009
Updt date:	20020820		

Construction 2 Information:

Relateid:	0000227413	Constype:	C
From depth:	0		
To depth:	97		
Diameter:	4		
Slot:	Not Reported		
Length:	Not Reported		
Material:	Not Reported		
Amount:	Not Reported		
Units:	Not Reported		

Pump Test Information:

Relateid:	0000227413	Pumptestid:	1
Test date:	19680500		
Start meas:	0		
Flow rate:	10		
Duration:	Not Reported		
Pump meas:	0		

Stratigraphy Information:

Relateid:	0000227413	Depth top:	0
Depth bot:	13	Drllr desc:	SAND
Color:	RED	Hardness:	Not Reported
Strat:	Quaternary sand-sort undiff or unknown-red		
Lith prim:	Sand		
Lith sec:	Not Reported	Lith minor:	Not Reported

K28
WSW **MN WELLS** **MN0000011107**
1/2 - 1 Mile
Lower

Relateid:	0000116876	County c:	Isanti
Unique no:	00116876	Wellname:	SOLOMONSON, CRAIG
Township:	36	Range:	23
Range dir:	W	Section:	30
Subsection:	DDACDA	Mgsquad c:	152
Elevation:	950		
Elev mc:	7.5 minute topographic map (+/- 5 feet)		
Status c:	Active		
Use c:	Not Reported	Loc mc:	Not Reported
Loc src:	Minnesota Geological Survey	Data src:	Lindsay Well Co.
Depth drll:	136		

Depth comp:	136		
Date drll:	19780802		
Case diam:	4		
Case depth:	133		
Grout:	Well known to be not grouted	Pollut dst:	70
Pollut dir:	N	Pollut typ:	SDF
Strat date:	19910814	Strat upd:	20020715
Strat src:	Minnesota Geological Survey	Strat geol:	Unknown
Strat mc:	MGS provisional [MGS] unspecif		
Depth2bdrk:	-999		
First bdrk:	Not Reported	Last strat:	Sand & larger
Ohtopunit:	QHUB	Ohbotunit:	QHUB
Aquifer:	QBAA	Cuttings:	Not Reported
Core:	Not Reported	Bhgeophys:	Not Reported
Geochem:	Not Reported	Waterchem:	Not Reported
Obwell:	Not Reported	Swl:	Y
Igwis:	Not Reported	Input src:	Minnesota Geological Survey
Unused:	Not Reported	Entry date:	19901009
Updt date:	20020715	Site id:	MN0000011107

Construction 1 Information:

Relateid:	0000116876	Drill meth:	Cable Tool
Drill flud:	Not Reported	Hydrofrac:	Not Reported
Hffrom:	Not Reported		
Hfto:	Not Reported		
Case mat:	Not Reported	Case joint:	Not Reported
Case top:	0		
Drive shoe:	Y	Case type:	Single casing
Screen:	Y		
Ohtopfeet:	Not Reported		
Ohbotfeet:	Not Reported		
Screen mfg:	JOHNSON	Screen typ:	stainless steel
Ptlss mfg:	Not Reported	Ptlss mdl:	Not Reported
Bsmt offst:	Not Reported	Csg top ok:	Not Reported
Csg at grd:	Not Reported	Plstc prot:	Not Reported
Disinfectd:	Y	Pump inst:	Y
Pump date:	19780802	Pump mfg:	AERMOTOR
Pump model:	SD/12/50		
Pump hp:	.5		
Pump volts:	230		
Dropp len:	63		
Dropp mat:	G	Pump cpcty:	12
Pump type:	Submersible	Variance:	Not Reported
Drllr name:	LINDSAY, R.	Entry date:	19901009
Updt date:	20020715		

Construction 2 Information:

Relateid:	0000116876	Constype:	C
From depth:	0		
To depth:	133		
Diameter:	4		
Slot:	Not Reported		
Length:	Not Reported		
Material:	Not Reported		
Amount:	Not Reported		
Units:	Not Reported		

Well Information:

Relateid:	0000116876	Meas type:	Well installation
Meas date:	19780802	Meas time:	Not Reported
M pt code:	Land surface		
Meas point:	0		
Measuremt:	32		
Meas elev:	918		
Data src:	Lindsay Well Co.	Program:	CWI
Entry date:	19901009	Updt date:	0

Pump Test Information:

Relateid:	0000116876	Pumptestid:	1
Test date:	19780800		
Start meas:	32		
Flow rate:	25		
Duration:	2		
Pump meas:	40		

Stratigraphy Information:

Relateid:	0000116876	Depth top:	0
Depth bot:	40	Drllr desc:	SAND
Color:	BROWN	Hardness:	MEDIUM
Strat:	Quaternary sand-sort undiff or unknown-brown		
Lith prim:	Sand		
Lith sec:	Not Reported	Lith minor:	Not Reported

K29
WSW
1/2 - 1 Mile
Lower

MN WELLS **MN0000123199**

Relateid:	0000418880	County c:	Isanti
Unique no:	00418880	Wellname:	SODERGREN, CARL
Township:	36	Range:	23
Range dir:	W	Section:	30
Subsection:	DDACCA	Mgsquad c:	Cambridge
Elevation:	940		
Elev mc:	7.5 minute topographic map (+/- 5 feet)		
Status c:	Active		
Use c:	Domestic	Loc mc:	Not Reported
Loc src:	Minnesota Geological Survey	Data src:	Bill's Well Co.
Depth drll:	120		
Depth comp:	120		
Date drll:	19871030		
Case diam:	4		
Case depth:	115		
Grout:	Well grouted, type unknown	Pollut dst:	75
Pollut dir:	NE	Pollut typ:	SDF
Strat date:	19910814	Strat upd:	20020715
Strat src:	Minnesota Geological Survey	Strat geol:	Unknown
Strat mc:	MGS provisional [MGS] unspecif		
Depth2bdrk:	-999		
First bdrk:	Not Reported	Last strat:	Sand
Ohtopunit:	QFUW	Ohbotunit:	QFUW
Aquifer:	QBAA	Cuttings:	Not Reported
Core:	Not Reported	Bhgeophys:	Not Reported
Geochem:	Not Reported	Waterchem:	Not Reported
Obwell:	Not Reported	Swl:	Y
Igwis:	Not Reported	Input src:	Minnesota Geological Survey
Unused:	Not Reported	Entry date:	19900925
Updt date:	20040204	Site id:	MN0000123199

Construction 1 Information:

Relateid:	0000418880	Drill meth:	Non-specified Rotary
Drill flud:	Not Reported	Hydrofrac:	Not Reported
Hffrom:	Not Reported		
Hfto:	Not Reported		
Case mat:	Steel (black or low carbon)	Case joint:	T
Case top:	1		
Drive shoe:	N	Case type:	Single casing
Screen:	Y		
Ohtopfeet:	Not Reported		
Ohbotfeet:	Not Reported		
Screen mfg:	JOHNSON	Screen typ:	stainless steel
Ptlss mfg:	MONITOR	Ptlss mdl:	SNAPPY
Bsmt offst:	Not Reported	Csg top ok:	Not Reported
Csg at grd:	Not Reported	Plstc prot:	Not Reported
Disinfectd:	Y	Pump inst:	Y
Pump date:	19871031	Pump mfg:	AERMOTOR
Pump model:	SD-20-75		
Pump hp:	.75		
Pump volts:	230		
Dropp len:	60		
Dropp mat:	P	Pump cpcty:	20
Pump type:	Submersible	Variance:	Not Reported
Drllr name:	Not Reported	Entry date:	19900925
Updt date:	20020715		

Construction 2 Information:

Relateid:	0000418880	Constype:	C
From depth:	0		
To depth:	115		
Diameter:	4		
Slot:	Not Reported		
Length:	Not Reported		
Material:	Not Reported		
Amount:	11		
Units:	Not Reported		

Well Information:

Relateid:	0000418880	Meas type:	Well installation
Meas date:	19871030	Meas time:	Not Reported
M pt code:	Land surface		
Meas point:	0		
Measuremt:	43		
Meas elev:	897		
Data src:	Bill's Well Co.	Program:	CWI
Entry date:	19900925	Updt date:	0

Pump Test Information:

Relateid:	0000418880	Pumptestid:	1
Test date:	19871000		
Start meas:	43		
Flow rate:	30		
Duration:	Not Reported		
Pump meas:	60		

Stratigraphy Information:

Relateid:	0000418880	Depth top:	0
Depth bot:	45	Drllr desc:	SAND
Color:	TAN	Hardness:	SOFT
Strat:	Quaternary sand-sort undiff or unknown-brown		
Lith prim:	Sand		
Lith sec:	Not Reported	Lith minor:	Not Reported

K30
WSW
1/2 - 1 Mile
Lower

FED USGS **USGS2006828**

Agency cd:	MN040	Site no:	453430093145001
Site name:	36N23W30DDACCA01		
Latitude:	453430		
Longitude:	0931450	Dec lat:	45.57496306
Dec lon:	-93.24744861	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	27
State:	27	County:	059
Country:	US	Land net:	NESESES30 T 36N R23W
Location map:	CAMBRIDGE	Map scale:	24000
Altitude:	940	Altitude method:	M
Altitude accuracy:	5	Altitude datum:	NGVD29
Hydrologic:	Rum. Minnesota. Area = 1560 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19871030
Date inventoried:	19900925	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Confined single aquifer		
Aquifer:	GLACIAL BURIED SAND & GRAVEL		
Well depth:	120	Hole depth:	120
Source of depth data:	Not Reported	Project number:	462714100
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1987-10-30	Ground water data end date:	1987-10-30
Ground water data count:	1		

Ground-water levels, Number of Measurements: 0

L31
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS2006917**

Agency cd:	MN040	Site no:	453359093132101
Site name:	36N23W33BCCCAA01		
Latitude:	453359		
Longitude:	0931321	Dec lat:	45.56635194
Dec lon:	-93.22272556	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	27
State:	27	County:	059
Country:	US	Land net:	SWSWNWS33 T 36N R23W
Location map:	CAMBRIDGE	Map scale:	62500
Altitude:	960	Altitude method:	M
Altitude accuracy:	5	Altitude datum:	NGVD29
Hydrologic:	Rum. Minnesota. Area = 1560 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19780925
Date inventoried:	19901009	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	IRONTON AND GALESVILLE SANDSTONES		
Well depth:	142	Hole depth:	142
Source of depth data:	Not Reported	Project number:	462714100
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1978-09-25	Ground water data end date:	1978-09-25
Ground water data count:	1		

Ground-water levels, Number of Measurements: 0

L32
SSE
1/2 - 1 Mile
Higher

MN WELLS **MN0000011098**

Relateid:	0000116863	County c:	Isanti
Unique no:	00116863	Wellname:	RUM RIVER FARMERS CO-OP
Township:	36	Range:	23
Range dir:	W	Section:	33
Subsection:	BCCCAA	Mgsquad c:	152
Elevation:	960		
Elev mc:	7.5 minute topographic map (+/- 5 feet)		
Status c:	Active		
Use c:	Commercial	Loc mc:	Not Reported
Loc src:	Minnesota Geological Survey	Data src:	Lindsay Well Co.
Depth drll:	142		
Depth comp:	142		
Date drll:	19780925		
Case diam:	4		
Case depth:	136		
Grout:	Well known to be not grouted	Pollut dst:	90
Pollut dir:	N	Pollut typ:	SDF
Strat date:	19910814	Strat upd:	20020820
Strat src:	Minnesota Geological Survey	Strat geol:	Unknown
Strat mc:	MGS provisional [MGS] unspecif		
Depth2bdrk:	92		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

First bdrk:	CFRN	Last strat:	Franconia
Ohtopunit:	CIGL	Ohbotunit:	CIGL
Aquifer:	CIGL	Cuttings:	Not Reported
Core:	Not Reported	Bhgeophys:	Not Reported
Geochem:	Not Reported	Waterchem:	Not Reported
Obwell:	Not Reported	Swl:	Y
Igwis:	Not Reported	Input src:	Minnesota Geological Survey
Unused:	Not Reported	Entry date:	19901009
Updt date:	20020820	Site id:	MN0000011098

Construction 1 Information:

Relateid:	0000116863	Drill meth:	Cable Tool
Drill flud:	Not Reported	Hydrofrac:	Not Reported
Hffrom:	Not Reported		
Hfto:	Not Reported		
Case mat:	Steel (black or low carbon)	Case joint:	T
Case top:	0		
Drive shoe:	Y	Case type:	Single casing
Screen:	Y		
Ohtopfeet:	Not Reported		
Ohbotfeet:	Not Reported		
Screen mfg:	JOHNSON	Screen typ:	stainless steel
Ptlss mfg:	Not Reported	Ptlss mdl:	Not Reported
Bsmt offst:	Not Reported	Csg top ok:	Not Reported
Csg at grd:	Not Reported	Plstc prot:	Not Reported
Disinfectd:	Y	Pump inst:	Y
Pump date:	19780925	Pump mfg:	AERMOTOR
Pump model:	SD/12/50		
Pump hp:	.5		
Pump volts:	230		
Dropp len:	63		
Dropp mat:	G	Pump cpcty:	12
Pump type:	Submersible	Variance:	Not Reported
Drllr name:	LINDSAY, R.	Entry date:	19901009
Updt date:	20020820		

Construction 2 Information:

Relateid:	0000116863	Constype:	C
From depth:	0		
To depth:	136		
Diameter:	4		
Slot:	Not Reported		
Length:	Not Reported		
Material:	Not Reported		
Amount:	Not Reported		
Units:	Not Reported		

Well Information:

Relateid:	0000116863	Meas type:	Well installation
Meas date:	19780925	Meas time:	Not Reported
M pt code:	Land surface		
Meas point:	0		
Measuremt:	32		
Meas elev:	928		
Data src:	Lindsay Well Co.	Program:	CWI
Entry date:	19901009	Updt date:	0

Pump Test Information:

Relateid:	0000116863	Pumptestid:	1
Test date:	19780900		
Start meas:	32		
Flow rate:	25		
Duration:	3		
Pump meas:	40		

Stratigraphy Information:

Relateid:	0000116863	Depth top:	0
Depth bot:	4	Drllr desc:	SAND
Color:	BROWN	Hardness:	MEDIUM
Strat:	Quaternary sand-sort undiff or unknown-brown		
Lith prim:	Sand		
Lith sec:	Not Reported	Lith minor:	Not Reported

M33
WSW
1/2 - 1 Mile
Higher

FED USGS **USGS2006825**

Agency cd:	MN040	Site no:	453427093145001
Site name:	36N23W30DDCAAB01		
Latitude:	453427		
Longitude:	0931450	Dec lat:	45.57412972
Dec lon:	-93.24744861	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	27
State:	27	County:	059
Country:	US	Land net:	SWSESES30 T 36N R23W
Location map:	CAMBRIDGE	Map scale:	62500
Altitude:	950	Altitude method:	M
Altitude accuracy:	5	Altitude datum:	NGVD29
Hydrologic:	Rum. Minnesota. Area = 1560 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19790806
Date inventoried:	19901009	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	IRONTON AND GALESVILLE SANDSTONES		
Well depth:	138	Hole depth:	138
Source of depth data:	Not Reported	Project number:	462714100
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1979-08-10	Ground water data end date:	1979-09-10
Ground water data count:	2		

Ground-water levels, Number of Measurements: 0

M34
WSW
1/2 - 1 Mile
Lower

MN WELLS **MN0000036822**

Relateid:	0000157691	County c:	Isanti
Unique no:	00157691	Wellname:	OLSON, KIM
Township:	36	Range:	23
Range dir:	W	Section:	30
Subsection:	DDCAAB	Mgsquad c:	152
Elevation:	950		
Elev mc:	7.5 minute topographic map (+/- 5 feet)		
Status c:	Active		
Use c:	Domestic	Loc mc:	Information from neighbor
Loc src:	Minnesota Geological Survey	Data src:	Lindsay Well Co.
Depth drll:	138		
Depth comp:	138		
Date drll:	19790806		
Case diam:	4		
Case depth:	135		
Grout:	Well known to be not grouted	Pollut dst:	100
Pollut dir:	W	Pollut typ:	SDF
Strat date:	19910814	Strat upd:	20020820
Strat src:	Minnesota Geological Survey	Strat geol:	Unknown
Strat mc:	MGS provisional [MGS] unspecif		
Depth2bdrk:	130		
First bdrk:	CIGL	Last strat:	Ironton-Galesville
Ohtopunit:	CIGL	Ohbotunit:	CIGL
Aquifer:	CIGL	Cuttings:	Not Reported
Core:	Not Reported	Bhgeophys:	Not Reported
Geochem:	Not Reported	Waterchem:	Not Reported
Obwell:	Not Reported	Swl:	Y
Igwis:	Not Reported	Input src:	Minnesota Geological Survey
Unused:	Not Reported	Entry date:	19901009
Updt date:	20020820	Site id:	MN0000036822

Construction 1 Information:

Relateid:	0000157691	Drill meth:	Cable Tool
Drill flud:	Not Reported	Hydrofrac:	Not Reported
Hffrom:	Not Reported		
Hfto:	Not Reported		
Case mat:	Steel (black or low carbon)	Case joint:	T
Case top:	0		
Drive shoe:	Not Reported	Case type:	Single casing
Screen:	Y		
Ohtopfeet:	Not Reported		
Ohbotfeet:	Not Reported		
Screen mfg:	JOHNSON	Screen typ:	stainless steel
Ptlss mfg:	Not Reported	Ptlss mdl:	Not Reported
Bsmt offst:	Not Reported	Csg top ok:	Not Reported
Csg at grd:	Not Reported	Plstc prot:	Not Reported
Disinfectd:	Not Reported	Pump inst:	Y
Pump date:	19790810	Pump mfg:	AERMOTOR
Pump model:	SD/12/50		
Pump hp:	.5		
Pump volts:	230		
Dropp len:	63		
Dropp mat:	G	Pump cpcty:	12
Pump type:	Submersible	Variance:	Not Reported
Drllr name:	LINDSAY, R.	Entry date:	19901009
Updt date:	20020820		

Construction 2 Information:

Relateid:	0000157691	Constype:	C
From depth:	0		
To depth:	135		
Diameter:	4		
Slot:	Not Reported		
Length:	Not Reported		
Material:	Not Reported		
Amount:	Not Reported		
Units:	Not Reported		

Well Information:

Relateid:	0000157691	Meas type:	Well installation
Meas date:	19790810	Meas time:	Not Reported
M pt code:	Land surface		
Meas point:	0		
Measuremt:	24		
Meas elev:	926		
Data src:	Lindsay Well Co.	Program:	CWI
Entry date:	19901009	Updt date:	0

Relateid:	0000157691	Meas type:	Well installation
Meas date:	19790910	Meas time:	Not Reported
M pt code:	Land surface		
Meas point:	0		
Measuremt:	24		
Meas elev:	926		
Data src:	00303	Program:	CWI
Entry date:	19901009	Updt date:	0

Pump Test Information:

Relateid:	0000157691	Pumptestid:	1
Test date:	19790800		
Start meas:	24		
Flow rate:	20		
Duration:	2		
Pump meas:	24		

Stratigraphy Information:

Relateid:	0000157691	Depth top:	0
Depth bot:	35	Drllr desc:	SAND
Color:	BROWN	Hardness:	MEDIUM
Strat:	Quaternary sand-sort undiff or unknown-brown		
Lith prim:	Sand		
Lith sec:	Not Reported	Lith minor:	Not Reported

35
ENE
1/2 - 1 Mile
Lower

FED USGS **USGS2006869**

Agency cd:	MN040	Site no:	453451093124401
Site name:	36N23W28ACC 01		
Latitude:	453451		
Longitude:	0931244	Dec lat:	45.58079611
Dec lon:	-93.21244694	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	27
State:	27	County:	059
Country:	US	Land net:	SWSWNES28 T 36N R23W
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	Not Reported	Altitude method:	Not Reported
Altitude accuracy:	Not Reported	Altitude datum:	Not Reported
Hydrologic:	Rum. Minnesota. Area = 1560 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19851108
Date inventoried:	19901009	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	127	Hole depth:	127
Source of depth data:	Not Reported	Project number:	462714100
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1985-11-08	Ground water data end date:	1985-11-08
Ground water data count:	1		

Ground-water levels, Number of Measurements: 0

36
South
1/2 - 1 Mile
Higher

FED USGS **USGS2006907**

Agency cd:	MN040	Site no:	453352093135101
Site name:	36N23W32DBABCD01		
Latitude:	453352		
Longitude:	0931351	Dec lat:	45.5644075
Dec lon:	-93.23105917	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	27
State:	27	County:	059
Country:	US	Land net:	NENWSES32 T 36N R23W
Location map:	CAMBRIDGE	Map scale:	62500
Altitude:	962	Altitude method:	M
Altitude accuracy:	5	Altitude datum:	NGVD29
Hydrologic:	Rum. Minnesota. Area = 1560 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19791119
Date inventoried:	19901009	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Mixed - confined and unconfined multiple aquifers		
Aquifer:	Not Reported		
Well depth:	262	Hole depth:	262
Source of depth data:	Not Reported	Project number:	462714100
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1979-11-19	Ground water data end date:	1979-11-19
Ground water data count:	1		

Ground-water levels, Number of Measurements: 0

37
WNW
1/2 - 1 Mile
Lower

FED USGS **USGS2006872**

Agency cd:	MN040	Site no:	453451093145501
Site name:	36N23W30ADC 01		
Latitude:	453451		
Longitude:	0931455	Dec lat:	45.58079639
Dec lon:	-93.2488375	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	27
State:	27	County:	059
Country:	US	Land net:	SWSENES30 T 36N R23W
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	Not Reported	Altitude method:	Not Reported
Altitude accuracy:	Not Reported	Altitude datum:	Not Reported
Hydrologic:	Rum. Minnesota. Area = 1560 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19810928
Date inventoried:	19901009	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	84	Hole depth:	84
Source of depth data:	Not Reported	Project number:	462714100
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1981-09-28	Ground water data end date:	1981-09-28
Ground water data count:	1		

Ground-water levels, Number of Measurements: 0

N38
ESE
1/2 - 1 Mile
Higher

MN WELLS **MN0000007995**

Relateid:	0000111320	County c:	Isanti
Unique no:	00111320	Wellname:	JOHNSON, GEORGE
Township:	36	Range:	23
Range dir:	W	Section:	33
Subsection:	ABBBDD	Mgsquad c:	152
Elevation:	965		
Elev mc:	7.5 minute topographic map (+/- 5 feet)		
Status c:	Active		
Use c:	Commercial	Loc mc:	Not Reported
Loc src:	Minnesota Geological Survey	Data src:	Lindsay Well Co.
Depth drll:	80		

Depth comp:	80		
Date drll:	19761102		
Case diam:	4		
Case depth:	77		
Grout:	Well known to be not grouted	Pollut dst:	150
Pollut dir:	SW	Pollut typ:	SDF
Strat date:	19910814	Strat upd:	20020715
Strat src:	Minnesota Geological Survey	Strat geol:	Unknown
Strat mc:	MGS provisional [MGS] unspecif		
Depth2bdrk:	-999		
First bdrk:	Not Reported	Last strat:	Gravel (+larger)
Ohtopunit:	QGUK	Ohbotunit:	QGUK
Aquifer:	QBAA	Cuttings:	Not Reported
Core:	Not Reported	Bhgeophys:	Not Reported
Geochem:	Not Reported	Waterchem:	Not Reported
Obwell:	Not Reported	Swl:	Y
Igwis:	Not Reported	Input src:	Minnesota Geological Survey
Unused:	Not Reported	Entry date:	19901009
Updt date:	20020715	Site id:	MN0000007995

Construction 1 Information:

Relateid:	0000111320	Drill meth:	Cable Tool
Drill flud:	Not Reported	Hydrofrac:	Not Reported
Hffrom:	Not Reported		
Hfto:	Not Reported		
Case mat:	Not Reported	Case joint:	T
Case top:	0		
Drive shoe:	Y	Case type:	Single casing
Screen:	Y		
Ohtopfeet:	Not Reported		
Ohbotfeet:	Not Reported		
Screen mfg:	JOHNSON	Screen typ:	stainless steel
Ptlss mfg:	Not Reported	Ptlss mdl:	Not Reported
Bsmt offst:	Not Reported	Csg top ok:	Not Reported
Csg at grd:	Not Reported	Plstc prot:	Not Reported
Disinfectd:	Not Reported	Pump inst:	Y
Pump date:	Not Reported	Pump mfg:	AERMOTOR
Pump model:	SD 12		
Pump hp:	.5		
Pump volts:	230		
Dropp len:	Not Reported		
Dropp mat:	G	Pump cpcty:	12
Pump type:	Submersible	Variance:	Not Reported
Drllr name:	LINDSAY, R.	Entry date:	19901009
Updt date:	20020715		

Construction 2 Information:

Relateid:	0000111320	Constype:	C
From depth:	0		
To depth:	77		
Diameter:	4		
Slot:	Not Reported		
Length:	Not Reported		
Material:	Not Reported		
Amount:	Not Reported		
Units:	Not Reported		

Well Information:

Relateid:	0000111320	Meas type:	Well installation
Meas date:	19761102	Meas time:	Not Reported
M pt code:	Land surface		
Meas point:	0		
Measuremt:	27		
Meas elev:	938		
Data src:	Lindsay Well Co.	Program:	CWI
Entry date:	19901009	Updt date:	0

Pump Test Information:

Relateid:	0000111320	Pumptestid:	1
Test date:	19761100		
Start meas:	27		
Flow rate:	18		
Duration:	3		
Pump meas:	27		

Stratigraphy Information:

Relateid:	0000111320	Depth top:	0
Depth bot:	30	Drllr desc:	SAND
Color:	BROWN	Hardness:	SOFT
Strat:	Quaternary sand-sort undiff or unknown-brown		
Lith prim:	Sand		
Lith sec:	Not Reported	Lith minor:	Not Reported

N39
ESE
1/2 - 1 Mile
Higher

FED USGS **USGS2006966**

Agency cd:	MN040	Site no:	453418093124501
Site name:	36N23W33ABBBDD01		
Latitude:	453418		
Longitude:	0931245	Dec lat:	45.57162972
Dec lon:	-93.212725	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	27
State:	27	County:	059
Country:	US	Land net:	NWNWNES33 T 36N R23W
Location map:	CAMBRIDGE	Map scale:	62500
Altitude:	965	Altitude method:	M
Altitude accuracy:	5	Altitude datum:	NGVD29
Hydrologic:	Rum. Minnesota. Area = 1560 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19761102
Date inventoried:	19901009	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Confined single aquifer		
Aquifer:	GLACIAL BURIED SAND & GRAVEL		
Well depth:	80	Hole depth:	80
Source of depth data:	Not Reported	Project number:	462714100
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1976-11-02	Ground water data end date:	1976-11-02
Ground water data count:	1		

Ground-water levels, Number of Measurements: 0

O40
NW
1/2 - 1 Mile
Lower

MN WELLS **MN0000004844**

Relateid:	0000105860	County c:	Isanti
Unique no:	00105860	Wellname:	HANSON, HARVEY
Township:	36	Range:	23
Range dir:	W	Section:	30
Subsection:	AAADAB	Mgsquad c:	152
Elevation:	948		
Elev mc:	7.5 minute topographic map (+/- 5 feet)		
Status c:	Active		
Use c:	Domestic	Loc mc:	Information from neighbor
Loc src:	Minnesota Geological Survey	Data src:	H2o Well Drill
Depth drll:	54		
Depth comp:	54		
Date drll:	19750903		
Case diam:	Not Reported		
Case depth:	Not Reported		
Grout:	Well known to be not grouted	Pollut dst:	60
Pollut dir:	W	Pollut typ:	SDF
Strat date:	19910814	Strat upd:	20020715
Strat src:	Minnesota Geological Survey	Strat geol:	Unknown
Strat mc:	MGS provisional [MGS] unspecif		
Depth2bdrk:	-999		
First bdrk:	Not Reported	Last strat:	Boulder or boulders
Ohtopunit:	QBUW	Ohbotunit:	QBUW
Aquifer:	QBAA	Cuttings:	Not Reported
Core:	Not Reported	Bhgeophys:	Not Reported
Geochem:	Not Reported	Waterchem:	Not Reported
Obwell:	Not Reported	Swl:	Y
Igwis:	Not Reported	Input src:	Minnesota Geological Survey
Unused:	Not Reported	Entry date:	19901009
Updt date:	20020715	Site id:	MN0000004844

Construction 1 Information:

Relateid:	0000105860	Drill meth:	Jetted
Drill flud:	Not Reported	Hydrofrac:	Not Reported
Hffrom:	Not Reported		
Hfto:	Not Reported		
Case mat:	Steel (black or low carbon)	Case joint:	T
Case top:	0		
Drive shoe:	Not Reported	Case type:	Step down
Screen:	Y		
Ohtopfeet:	Not Reported		
Ohbotfeet:	Not Reported		

Screen mfg:	JOHNSON	Screen typ:	other
Ptlss mfg:	Not Reported	Ptlss mdl:	Not Reported
Bsmt offst:	Not Reported	Csg top ok:	Not Reported
Csg at grd:	Not Reported	Plstc prot:	Not Reported
Disinfectd:	Not Reported	Pump inst:	Y
Pump date:	19750903	Pump mfg:	A.Y. MCDONALD
Pump model:	4551		
Pump hp:	0		
Pump volts:	Not Reported		
Dropp len:	Not Reported		
Dropp mat:	G	Pump cpcty:	10
Pump type:	Jet	Variance:	Not Reported
Drllr name:	GLEASON, H.	Entry date:	19901009
Updt date:	20020715		

Construction 2 Information:

Relateid:	0000105860	Constype:	S
From depth:	50		
To depth:	54		
Diameter:	0		
Slot:	80		
Length:	0		
Material:	Not Reported		
Amount:	Not Reported		
Units:	Not Reported		

Well Information:

Relateid:	0000105860	Meas type:	Well installation
Meas date:	19750903	Meas time:	Not Reported
M pt code:	Land surface		
Meas point:	0		
Measuremt:	20		
Meas elev:	928		
Data src:	H2o Well Drill	Program:	CWI
Entry date:	19901009	Updt date:	0

Pump Test Information:

Relateid:	0000105860	Pumptestid:	1
Test date:	19750900		
Start meas:	20		
Flow rate:	40		
Duration:	Not Reported		
Pump meas:	0		

Stratigraphy Information:

Relateid:	0000105860	Depth top:	1
Depth bot:	10	Drllr desc:	SAND
Color:	Not Reported	Hardness:	SOFT
Strat:	Quaternary sand-sort undiff or unknown-brown		
Lith prim:	Sand		
Lith sec:	Not Reported	Lith minor:	Not Reported

O41
NW
1/2 - 1 Mile
Lower

FED USGS **USGS2006759**

Agency cd:	MN040	Site no:	453511093144301
Site name:	36N23W30AAADAB01		
Latitude:	453511		
Longitude:	0931443	Dec lat:	45.58635194
Dec lon:	-93.24550389	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	27
State:	27	County:	059
Country:	US	Land net:	NENENES30 T 36N R23W
Location map:	CAMBRIDGE	Map scale:	62500
Altitude:	948	Altitude method:	M
Altitude accuracy:	5	Altitude datum:	NGVD29
Hydrologic:	Rum. Minnesota. Area = 1560 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19750903
Date inventoried:	19901009	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Confined single aquifer		
Aquifer:	GLACIAL BURIED SAND & GRAVEL		
Well depth:	54	Hole depth:	54
Source of depth data:	Not Reported	Project number:	462714100
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1975-09-03	Ground water data end date:	1975-09-03
Ground water data count:	1		

Ground-water levels, Number of Measurements: 0

O42
NW
1/2 - 1 Mile
Lower

FED USGS **USGS2006761**

Agency cd:	MN040	Site no:	453512093144301
Site name:	36N23W30AAAADC01		
Latitude:	453512		
Longitude:	0931443	Dec lat:	45.58662972
Dec lon:	-93.24550389	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	27
State:	27	County:	059
Country:	US	Land net:	NENENES30 T 36N R23W
Location map:	CAMBRIDGE	Map scale:	62500
Altitude:	948	Altitude method:	M
Altitude accuracy:	5	Altitude datum:	NGVD29
Hydrologic:	Rum. Minnesota. Area = 1560 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19750915
Date inventoried:	19901009	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	PLEISTOCENE SERIES		
Well depth:	55	Hole depth:	55
Source of depth data:	Not Reported	Project number:	462714100
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported

Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

O43
NW
1/2 - 1 Mile
Lower

MN WELLS **MN0000004841**

Relateid:	0000105856	County c:	Isanti
Unique no:	00105856	Wellname:	HANSON, HARVEY
Township:	36	Range:	23
Range dir:	W	Section:	30
Subsection:	AAAADC	Mgsquad c:	152
Elevation:	948		
Elev mc:	7.5 minute topographic map (+/- 5 feet)		
Status c:	Active		
Use c:	Domestic	Loc mc:	Information from neighbor
Loc src:	Minnesota Geological Survey	Data src:	H2o Well Drill
Depth drll:	55		
Depth comp:	55		
Date drll:	19750915		
Case diam:	2		
Case depth:	51		
Grout:	Well known to be not grouted	Pollut dst:	54
Pollut dir:	W	Pollut typ:	SDF
Strat date:	19910814	Strat upd:	20020715
Strat src:	Minnesota Geological Survey	Strat geol:	Unknown
Strat mc:	MGS provisional [MGS] unspecif		
Depth2bdrk:	-999		
First bdrk:	Not Reported	Last strat:	Sand
Ohtopunit:	QFUB	Ohbotunit:	QFUB
Aquifer:	Not Reported	Cuttings:	Not Reported
Core:	Not Reported	Bhgeophys:	Not Reported
Geochem:	Not Reported	Waterchem:	Not Reported
Obwell:	Not Reported	Swl:	N
Igwis:	Not Reported	Input src:	Minnesota Geological Survey
Unused:	Not Reported	Entry date:	19901009
Updt date:	20020715	Site id:	MN0000004841

Construction 1 Information:

Relateid:	0000105856	Drill meth:	Jetted
Drill flud:	Not Reported	Hydrofrac:	Not Reported
Hffrom:	Not Reported		
Hfto:	Not Reported		
Case mat:	Steel (black or low carbon)	Case joint:	T
Case top:	0		
Drive shoe:	Y	Case type:	Single casing
Screen:	Y		
Ohtopfeet:	Not Reported		
Ohbotfeet:	Not Reported		

Screen mfg:	JOHNSON	Screen typ:	other
Ptlss mfg:	Not Reported	Ptlss mdl:	Not Reported
Bsmt offst:	Not Reported	Csg top ok:	Y
Csg at grd:	Not Reported	Plstc prot:	Not Reported
Disinfectd:	Y	Pump inst:	Y
Pump date:	19750905	Pump mfg:	A.Y. MCDONALD
Pump model:	Not Reported		
Pump hp:	.5		
Pump volts:	110		
Dropp len:	18		
Dropp mat:	G	Pump cpcty:	Not Reported
Pump type:	Jet	Variance:	Not Reported
Drllr name:	GLEASON, H.	Entry date:	19901009
Updt date:	20020715		

Construction 2 Information:

Relateid:	0000105856	Constype:	C
From depth:	0		
To depth:	51		
Diameter:	2		
Slot:	Not Reported		
Length:	Not Reported		
Material:	Not Reported		
Amount:	Not Reported		
Units:	Not Reported		

Stratigraphy Information:

Relateid:	0000105856	Depth top:	1
Depth bot:	7	Drllr desc:	SOIL
Color:	Not Reported	Hardness:	Not Reported
Strat:	RUUU		
Lith prim:	Soil		
Lith sec:	Organic Deposits	Lith minor:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: MN Radon

Radon Test Results

County	Num Sites	< Pci/L	>= 4 Pci/L	% >= 4 Pci/L
ISANTI	72	59	13	18%

Federal EPA Radon Zone for ISANTI County: 2

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: 55008

Number of sites tested: 2

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	3.300 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.

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

Minnesota Groundwater Database
Source: Minnesota Geological Survey County Water Well Index (CWI)
Telephone: 612-627-4780

OTHER STATE DATABASE INFORMATION

RADON

State Database: MN Radon
Source: Department of Health
Telephone: 651-215-0909
Radon Test Results

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: 07/13/2006

Fax From: Bart Sobieralski
EDR
Phone: 1-800-352-0050

EDR PUR-IQ® Report

"the intelligent way to conduct historical research"

for
Cambridge Memorial USARC
540 FIFTH AVENUE NW
CAMBRIDGE, MN 55008
Lat./Long. 45.57750 / 93.23030
EDR Inquiry # 01714247.38r

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 may exist for portions of Isanti County, MN.

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: Coverage exists for portions of Isanti County for the following decades: 1930s, 1950s, 1960s, 1970s, 1990s Shipping time 3-5 business days.

4. Topographic Map: The USGS 7.5 min. quad topo sheet(s) associated with this site:

Historical: Coverage exists for Isanti County

Current: Target Property: TP | 1983 | 45093-E2 Cambridge, MN

Additional required for 1 Mile radius: W | 1983 | 45093-E3 Bradford, MN

5. Flood Prone Maps : Coverage is available for Isanti County

6. NWI Wetland Maps: Coverage exists for Isanti County

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, wetland map resources and historical topographic map resources available for CAMBRIDGE, MN. 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

Cambridge Memorial USARC
540 FIFTH AVENUE NW
CAMBRIDGE, MN 55008
Isanti County
Lat./Long. 45.57750 / 93.23030
EDR Inquiry # 01714247.38r

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-City Directory
Abstract

Cambridge Memorial USARC
540 FIFTH AVENUE NW
CAMBRIDGE, MN 55008

Inquiry Number: 1714247.42

Thursday, July 13, 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.

This document reports that Environmental Data Resources, Inc. (EDR) searched select national repositories of business directories, and based on client-supplied target property information, business directories including the target property information were not deemed reasonably ascertainable by EDR. This no coverage determination reflects a search only of business directory repository collections which 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.