FINAL

ENVIRONMENTAL CONDITION OF PROPERTY REPORT

BURLINGTON MEMORIAL
U.S. ARMY RESERVE CENTER
IA019
17879 HIGHWAY 79
MIDDLETOWN, IA 52638

Prepared For:

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

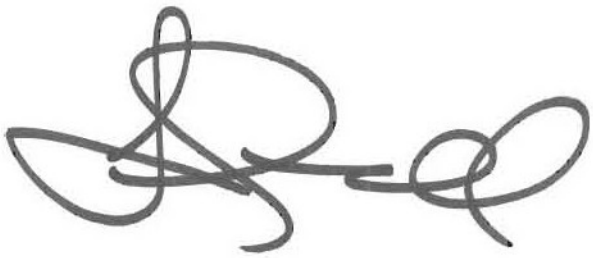
FEBRUARY 2007

CERTIFICATION

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

WILLIAM S. TITTERINGTON **DATE**
Environmental Division Chief
BRAC Environmental Coordinator
89th Regional Readiness Command

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



02/15/2007

LENARD GUNNELL, P.G. **DATE**
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EXECUTIVE SUMMARY

Smith Management Group, Inc. (SMG), in conjunction with Fuller, Mossbarger, Scott and May Engineers, Inc. (FMSM), under contract to the U.S. Army Corps of Engineers (USACE), Louisville District, has prepared this Environmental Condition of Property (ECP) Report for the Burlington Memorial U.S. Army Reserve Center (IA019), hereinafter referred to as the "Site" or "USAR Center". The Site is located at 17879 Highway 79, Middletown, Iowa 52638. The tract is rectangular in shape and encompasses approximately 11.0 acres.

This ECP Report was conducted in general conformance with primary Department of Defense and Army guidance, the Department of Defense's Base Redevelopment and Realignment Manual, DoD 4165.77-M (BRRM), Army regulations and the American Society for Testing and Materials (ASTM) Designation D 6008-96 (2005), *Standard Practice for Conducting Environmental Baseline Surveys,* as secondary guidance when it was not inconsistent with the primary guidance.

This ECP 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 facility is on approximately 11 acres of land with three buildings: one administration building of approximately 16,000 square feet, an Organizational Maintenance Shop (OMS) of approximately 2,930 square feet, and a small shed used for training in construction techniques. The Site is currently occupied by one unit: Charlie Company, 389th Engineering Battalion.

Based on a review of aerial photographs and U.S. Geological Survey (USGS) topographic maps dating back to 1956, the Site has served as a USAR Center since prior to 1981. Construction of the buildings was reportedly completed in 1973 for the USAR and is located on property at the northern edge of the Iowa Army Ammunition Plant (IAAP).

Areas of potential environmental concern were reviewed and SMG identified evidence of petroleum release relating to the USAR use of this property. Additionally, friable PACM was identified in both buildings and there is no evidence that air ducts were cleaned or removed during the lead cleanup of the former IFR.

In accordance with Department of Defense policy defining the classifications (See Deputy Under Secretary of Defense Goodman Memorandum dated 21 October 1996), the Property has been classified as Type 2, an area or parcel of real property where only the release or disposal of petroleum products or their derivatives has occurred. This classification is based on the evidence from two investigations of the south OWS by the United States Geologic Survey (USGS) in 2000 and 2002. The site does not appear to be significantly impacted, based upon soil and groundwater sampling performed in 2002. 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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LIST OF ACRONYMS

ACM	asbestos-containing material
AMSA	area maintenance support activity
Army	U. S. Army
AST	aboveground storage tank
ASTM	American Society for Testing and Materials
BRAC	Base Realignment and Closure
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERFA	Community Environmental Response Facilitation Act
CONEX	container express
DoD	Department of Defense
DRO	Diesel Range Organics
EBS	environmental baseline survey
ECP	environmental condition of property
EDR	Environmental Data Resources, Inc.
FEMA	Federal Emergency Management Agency
FINDS	Facility Index System/Facility Registry System
FMSM	Fuller, Mossbarger, Scott and May Engineers, Inc.
GRO	Gasoline Range Organics
IAAP	Iowa Army Ammunition Plant
IDNR	Iowa Department of Natural Resources
IFR	indoor firing range
LBP	lead-based paint
LUST	leaking underground storage tank
MEC	Munitions and Explosives of Concern
MEP	military equipment parking
NRHP	National Register of Historic Places
O&M	Operations and Maintenance
OMS	organizational maintenance shop
OWS	oil/water separator
PACM	presumed asbestos containing material
PCBs	polychlorinated biphenyls
pCi/l	picoCuries per liter of air

POL	petroleum, oil, and lubricant
POV	privately-owned vehicle
RCRA	Resource Conservation and Recovery Act
RQ	reportable quantity under 40 CFR 302.4
RRC	Regional Readiness Command
Site	Burlington Memorial IA019
SMG	Smith Management Group
SOW	scope of work
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
VWF	vehicle wash facility
WSR	wild and scenic river

1.0 INTRODUCTION

Smith Management Group (SMG), in conjunction with Fuller, Mossbarger, Scott and May Engineers, Inc. (FMSM), was contracted by the USACE – Louisville District to prepare an ECP Report for the Burlington Memorial USAR Center (IA019), in response to the Base Realignment and Closure (BRAC) 2005 legislation. The facility is located at 17879 Highway 79, Middletown, Des Moines County, Iowa, hereinafter referred to as the "Site" or "USAR Center". In support of the ECP, SMG conducted a site reconnaissance on August 9, 2006. The purpose of the site reconnaissance was to visually obtain information indicating the environmental condition of property at the Site.

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 substances 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) 1,000 kilograms or the reportable quantity (RQ), whichever is greater, of the substances specified in 40 CFR 302.4, or (2) 1 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 RQ. Army Regulation (AR) 200-1 requires that the ECP Report address asbestos, lead-based paint, radon and other substances potentially hazardous to 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* as a

guideline when not inconsistent with the BRRM, CERCLA § 120, Army regulations and other applicable Army guidance.

1.2 SCOPE OF SERVICES

This ECP report covers the 11.0-acre USAR Center located at 17879 Highway 79, Middletown, Iowa. The property is bounded by Highway 79 on the north with agricultural land beyond, a corn field, a small park with residential housing beyond on the east; and property owned by the IAAP which has been leased as agricultural land planted in corn on the south and west. The Site is part of a tract of land owned by the U.S. Government, the majority of which is used by the IAAP. The IAAP owns the property to the south and west and leases it for agricultural use. Site maps are provided in Appendix A. Appendix B provides photographs taken during the August 2006 site visit. Appendix C provides title and lien information. Historical environmental documents and reports are provided in Appendix D, and Appendix E contains the Environmental Data Resources, Inc. (EDR) reports.

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

- Category 1 – Areas where no release or disposal of hazardous substances or petroleum products has occurred (including no migration of these substances from adjacent areas).
- Category 2 – Areas where only the release or disposal of petroleum products has occurred.
- Category 3 – Areas where release, disposal, and/or migration of hazardous substances has occurred, but at concentrations that do not require a removal or remedial response.
- Category 4 – Areas where release, disposal, and/or migration of hazardous substances has occurred, and all removal or remedial actions to protect human health and the environment have been taken.
- Category 5 – Areas where release, disposal, and/or migration of hazardous substances has occurred, and removal or remedial actions are under way, but all required remedial actions have not yet been taken.
- Category 6 – Areas where release, disposal, and/or migration of hazardous substances have occurred, but required actions have not yet been implemented.
- Category 7 – Areas that are not evaluated or require additional evaluation.

2.0 SITE LOCATION AND PHYSICAL DESCRIPTION

2.1 SITE LOCATION

The USAR Center is located east of Middletown, Des Moines County, Iowa. The site is located in a predominantly agricultural or undeveloped area, with residential land use to the east and property owned by the IAAP and leased for agriculture located to the south and west of the property. Figure 1 in Appendix A provides a general site location map. Figure 5 depicts the Site in relation to its topographic surroundings.

2.2 ASSET INFORMATION

Facility Name and Address:	Burlington Memorial USARC (IA019) 17879 Highway 79 Middletown, IA 52638
Property Owner:	United States of America
Date of Deed:	May 5, 1941
Current Occupant:	Charlie Company, 389th Engineer Battalion
Zoning:	Unincorporated section of Des Moines County, Iowa
County, State:	Des Moines County, Iowa
USGS Quadrangle(s):	Danville, IA
Section/Township/Range:	Section 36, Township 70 North, Range 4 West
Latitude/Longitude:	40° 49' 37.6" N; 91° 16' 27.8" W
Legal Description:	Title and lien information provided by EDR is provided in Appendix C.

2.3 PHYSICAL DESCRIPTION

The USAR Center is situated on approximately 11.0 acres of land with two permanent structures and a small shed used for training purposes. The buildings include an administration building of approximately 16,000 square feet and an OMS of approximately 2,930 square feet. Varying reports and documents identify the construction date as 1972 or 1973. Based on review of available documents, construction of the building was reportedly completed in 1973. The U.S. Army Reserve was the original and only occupant of the developed Site.

Both the administration building and OMS are constructed on a slab foundation with a steel frame with masonry infill and a brick veneer. The roofs of the administration building and OMS have been replaced with a membrane system. The training shed is located behind the

administration building (south) and is constructed on wood framing with a built up shingle roof. The administration building includes offices, classrooms, a kitchen, a boiler room, a former IFR, a drill hall and storage. The OMS includes two service bays, storage, and a small office. A paved POV area is located to the west of the administration building and a large fenced and mostly paved MEP area is located to the south of the administration building and west of the OMS. Chain-link security fencing topped with barbed wire encloses the MEP and OMS. The building structures, paved POV and MEP areas and concrete aprons surrounding the structures are the impervious features on the site and constitute about 30 percent of the Site. The remainder of the site is covered with grass. A natural gas line right-of-way crosses the property along Highway 79 and a sewer easement runs along the east side of the Site. Photographs of the site are included in Appendix B.

Topographically, the Site is relatively flat and contains little relief. Stormwater culverts are located within the MEP and POV areas and a ditch with culverts is located at the front of the property along Highway 79. Figure 2 in Appendix A provides a current plan view layout of the Site.

The administration building consists of a one-story structure, with an attic boiler room. The interior of the administration building includes office space, classrooms, a kitchen, storage, a former IFR, and a drill hall. The attic boiler room also provides access to the roof. The interior of the building is finished with drop in ceiling panels, wood paneling of numerous styles, sheet rock, ceramic and vinyl floor tile, and carpet. The drill hall, former IFR, and storage areas had concrete floors. The OMS interior consists of a concrete floor and painted concrete block walls. Figures 3 and 4 in Appendix A provide layouts of the interior of the administration building and the OMS.

The boundaries of the USAR Center are not physically marked; however, Site personnel described the boundaries as being “the edge of the corn”. This description, as of the site visit date, placed the boundary approximately 100 feet south and east of the MEP fence. The western boundary was generally indicated as extending to a gravel road along the edge of the planted corn from Highway 79. The site is bounded by Highway 79 on the north, a sewer easement, corn field and a park beyond on the east, a large corn field which is part of the IAAP reportedly leased for agriculture on both the south and west. A former road, now a gravel drive, is located along a portion of the west boundary.

Site personnel reported that vehicle and equipment maintenance activities presently occur in the OMS. There are two OWS reportedly located at the site. The north OWS is outside the east door of the administration building, near the storage area and drill hall and is associated with a small wash rack. The south OWS was reported to be located just outside the MEP fence southeast of the corner of the OMS and is associated with a larger wash rack located just inside the MEP fence (Photographs 11-12, Appendix B). The structure identified by Site personnel as the south OWS in this area is not located where historic documents indicate and appears to be a lift station instead. Site plans included in Appendix D depict the OWS between a grease rack and the wash rack. No structure was observed in the location depicted on historic plans. The interior of the lift station was not accessible during the Site visit.

No floor drains were observed in the OMS and Site personnel reported that none exist. Floor drains were observed in the administration building in the former IFR, latrines, janitor's closet, boiler room, and several in the kitchen.

Numerous pieces of military equipment were located in the MEP on the day of the site visit (Photograph 6, 29, Appendix B). The MEP was paved with notable patching and showed signs of heavy use and some staining. Portions of the MEP were covered with gravel. South and adjacent to the OMS was a rectangular area filled with soft and mounded soil. One portion of this area showed signs of a recent addition of soil. This area was reported as a former grease rack used to examine and service the underside of heavy equipment located on site.

North and adjacent to the OMS were three hazardous material sheds, a container express (CONEX) and a large storage container. The POV area, located west of the administration building, was also paved and showed signs of wear and tear. The remainder of the site was grass covered. Two mounds of what appeared to be brush, dirt, and plant material were located at the southwest corner of the Site.

2.4 SITE HYDROLOGY AND GEOLOGY

2.4.1 Surface Water Characteristics

Figure 5 in Appendix A provides a portion of the 1976 Danville, Iowa, United States Geological Survey (USGS) topographic map which includes the Site. As shown, the Site is situated at an elevation of approximately 725 feet above mean sea level and appears to be level. The Site lies north of the IAAP and site drainage appears to flow off the Site at the southeast corner of the Site and into an intermittent stream or drainage way, eventually reaching a reservoir located on the IAAP. Stormwater entering the storm culverts on site will discharge to this area as well. Drainage from the front of the Site will flow into the ditch along Highway 79 and is expected to follow a swale located east of the Site to the same area.

According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map, Community Panels 190113 0125B and 190113 0068B, the Site is not included in a designated flood zone. Figure 9 in Appendix A provides a map depicting the extent of flood zones in the area in relation to the Site. Figure 10 in Appendix A, provided to illustrate wetlands, also indicates that the Site is not located within the 100 or 500-year floodplain.

2.4.2 Geology/Hydrogeological Characteristics

According to information acquired from the Natural Resources Conservation Service Web Soil Survey (http://websoilsurvey.nrcs.usda.gov/app/), specific soils at the Site are the Taintor silty clay loam and the Mahaska silty clay loam. The Taintor silty clay loam is a poorly drained soil found on flats on the uplands. Available water capacity is very high with a moderately high permeability. The soil does not pond to flood; however, it does meet the requirements for a hydric soil. The Mahaska silty clay loam is a somewhat poorly drained soil located on flats on uplands. The available water capacity is very high with a moderately high permeability. This soil does not pond to flood and is not classified as a hydric soil. The parent material for both soils is listed as loess.

In general, surface groundwater will follow topography and flow to the south. Groundwater in this area will generally occur in two different zones: in the unconsolidated material at the soil/bedrock interface and within the deeper bedrock stratum. Flow direction in the upper zone typically follows the local topography. Based on a review of the site and the topographic map, the upper zone is anticipated to flow to the east. An investigation of the south OWS in 2002 included the installation of three shallow groundwater wells in the southeast corner of the Site. Data derived from the investigation indicates groundwater flow in this area of the Site is to the southeast.

As provided in the EDR report, the site is underlain by the Osagean and Kinderhookian Series from the Mississippian (325-353 million years ago) which is part of the Paleozoic Era. Information obtained from the Iowa Department of Natural Resources (IDNR) Geological Survey Division indicates that the site lies on the Southern Iowa Drift Plain which is comprised of loose sediments left over from the continental glaciers of the Pleistocene ice age that have been eroded by wind.

2.5 SITE UTILITIES

Water Service – The Site obtains water from the city of Middletown.

Sanitary Sewer System – The Site is connected to the city of Middletown sanitary sewage system.

Gas & Electric – Gas and electric services are provided by Alliant Energy. The majority of the offices and classrooms are heated with radiant heat from a boiler unit located in the second floor boiler room and transmitted through the administration building through hot water pipes. Shop areas are heated with overhead radiant heaters. The drill hall is heated with an overhead forced air system.

2.6 WATER SUPPLY WELLS & SEPTIC SYSTEMS

Based upon site reconnaissance, a review of available historical site and agency records, and interviews with site personnel, no evidence was obtained that a water supply well has been located on site.

Waste water is reported to discharge to the city sewer system, which was reportedly connected to the Site when it was constructed. A sewer easement is visible along the eastern edge of the Site. Water from the two OWS is reported to discharge to the sanitary sewer.

Information obtained from EDR indicated that there have been water wells located within ½-mile of the Site. One group of wells, identified as “A” on the attached EDR report (Appendix E), was reportedly located within ¼-mile to the south. All of these wells are reported to be “retired” and the records contain no further information with regard to dates of installation, depth of the well or depth to water.

The second groups of wells, identified as “B” on the EDR report, Appendix E, includes one 150 foot deep well reported as active and located within ½-mile to the east.

3.0 SITE HISTORY

3.1 HISTORY OF OWNERSHIP

Land titles for the Site were reviewed back to 1941. Appendix C contains a chain of title and a lien report completed for the Site. The title and lien reports did not identify environmental liens against the USAR Center property. According to historical documentation, the Site is owned by the United States Government, which took title in 1941 from Ella C. Utter & Maurice Utter.

No coverage on historical Sanborn fire insurance maps was obtained from EDR. City Directory coverage was limited. The USAR Center was listed in the 1996, 2001, and 2005 Polk City Directory. The only surrounding listing found in the EDR City Directory report was a residence located at 11002 180th Avenue, which appeared in each of the directories reviewed. A copy of the City Directory Search is provided in Appendix E.

Site contacts reported that they believed the property was previously used for agricultural purposes prior to the construction of the USAR Center, although it was a portion of the IAAP, an ammunition manufacturing facility.

Construction of the buildings was reported to have been completed in 1973 as a U.S. Army Reserve Center.

3.2 PAST USES AND OPERATIONS

Prior to construction of the building, the property was a part of the IAAP although the actual land use was reportedly agricultural. In 1973, the Site was constructed as a U.S. Army Reserve Center.

The Site has functioned as an administrative, logistical, and educational facility. The 389th Engineering Battalion uses and maintains vehicles and heavy equipment at the Site (Photographs 6, 29, Appendix B). Maintenance activities include checking and changing fluids and repair and replacement of tires, brakes, and track. At the time of the Site visit, the Site had numerous vehicles present and located in the MEP. Site personnel stated that the numbers of vehicles and equipment on the date of the Site visit were below usual strength, resulting in fewer activities and less inventory of fluids, both new and used, than normal. The Site was historically used by reservists for drill activities on various weekends throughout the year.

The current Reserve unit, Charlie Company, 389th Engineer Battalion, is a construction and engineering unit. The mission of this unit is to provide construction services both to support deployed units and to assist the civilian populace. At the time of the site visit, the administration building contained various items, including desks, office furniture, and folding tables. The OMS and supply areas were in the process of reorganizing and reabsorbing equipment that was being returned to the USAR Center from deployment over the past several years.

There are two wash racks and reportedly two OWS present at the Site. The north wash rack and OWS are located outside the east door to the administration building, closest to the supply area and the drill hall (Photographs 9-10, Appendix B). This wash rack was not being used on

the day of the Site visit; however, a hose was attached to the water outlet at the wash rack. Site personnel reported no knowledge of inspection, maintenance or repair to the OWS at this location. The interior of the north OWS was not accessible. The OWS is reported to discharge to the sanitary sewer.

The south wash rack and OWS are located south of the OMS. This wash rack drain appeared to be plugged as there was standing water in the structure. According to Site plans and a 2003 report by the USGS of an investigation of this OWS, the OWS was located adjacent and just north of the wash rack, inside the MEP fence. The structure reported to contain the OWS during the site visit is located outside the MEP fence and appears to be the lift station through which discharge from the OWS was reported to flow. Historic documents indicate the soil and groundwater around the south wash station and OWS have been evaluated for diesel range organics (DRO) and gasoline range organics (GRO). No DRO or GRO constituents were reported to be detected above applicable action levels. Access to observe the interior of the lift station was not available during the site visit. The south OWS was not observed and may have been covered with soil or previously removed.

Also south of and adjacent to the OWS is a large rectangular area which was filled with mounded soft soil. This area was reported to be the site of a former grease rack which was used to access the underside of large equipment. The grease rack was reportedly removed prior to 1999. Site personnel stated that additional fill material was added to portions of this area in the spring of 2006 as it had settled during the previous winter. No information was available for review describing the demolition and removal of the structure.

Used tires are stored beside the south wash rack and, according to Site personnel, are used to cushion the paved MEP area when heavy equipment is moved through the area.

Historical aerial photographs and topographic maps were reviewed for additional information on the past use and operations at the Site. Figures 5-8 in Appendix A provide USGS topographical maps and aerial views of the Site and surrounding areas in 1956, 1981, 1984 and 1994.

The 1956 aerial photographic map (Figure 6, Appendix A) shows the existence of Highway 79 and 180th Avenue located to the north and west. The Site is undeveloped. The IAAP is clearly developed at this date. Property just to the west of the Site was shown as a residence. The small residential section to the east is also visible.

The 1981 topographic map, Danville, Iowa, quadrangle (Figure 5, Appendix A), obtained from EDR, shows the Site as developed. The park to the east is depicted as a picnic area. The small residential development beyond to the east is also depicted. Land north of Highway 79 and property to the west of the Site are shown as undeveloped and the southern portion of this map depicts the enormous expanse of the IAAP. No structures associated with the IAAP appear close to the Site. A small intermittent stream is shown to the east of the Site, draining south towards a lake/reservoir within the IAAP complex.

The 1984 aerial photograph (Figure 7, Appendix A) was taken from a high elevation and details are difficult to discern. The Site is depicted as developed. The residential property located to

the west seen in the 1956 aerial is gone. The IAAP is depicted, as are the homes located to the east.

The 1994 aerial, (Figure 8, Appendix A), depicts the Site much as it appears today. The surrounding properties appear to have the same land use as was observed during the Site visit.

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 Site was compiled through review of available site records, search of Federal and State environmental databases, and interviews with Army Reserve personnel.

Chemicals currently used and stored at the Site are associated with equipment and facility maintenance activities, and janitorial services. Janitorial chemicals and building maintenance products were stored in a janitorial closet located in the main hall of the administration building and in a locked cabinet in the hall adjacent to the janitorial closet. Access was not available to the locked cabinet but the chemicals and equipment in the janitorial closet were viewed. Flammable products within the administration building were stored in a flammable cabinet in the drill hall. Flammable and hazardous materials were stored within a flammable cabinet in the OMS as well as in three hazardous materials sheds located just to the north of the OMS. Materials were orderly and properly stored.

Certain types of chemical products used and stored at the Site contain CERCLA hazardous substances and are stored on a rotational basis in amounts necessary to support the unit through direct support level maintenance. However, there was no evidence obtained or reviewed to indicate that CERCLA hazardous substances in excess of corresponding RQs were stored at the Site for one year or more.

3.3.2 Past Disposal and Release of Hazardous Substances

Information related to past disposal and potential release of hazardous substances at the Site 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, on-site disposal of hazardous materials or wastes has not occurred at the Site.

Site personnel reported a recent release of hydraulic fluid within the OMS. It was reported that the material was contained, cleaned up, and disposed of properly. The OMS reportedly has no floor drains. Dikes were used to prevent the spilled material from leaving the building.

An area along the east side of the OMS had no vegetation visible. This strip is about three feet wide and lies between the building and the MEP fence. Site personnel stated that the lawn care company had sprayed herbicide to keep the weeds down due to the difficulty of reaching that portion of the property. Information about the lawn care company and herbicide reportedly used is included in Appendix D. An area around the south OWS and sewer manhole was also

stressed with dry, brown vegetation. Minimal vegetation has grown in the soil in the area of the former grease pit. See Photographs 4, 12-14, Appendix B. No odor was associated with either of the areas of stressed or dead vegetation. With those exceptions, no stained soil or stressed vegetation was observed during the August 2006 site visit. The MEP area was paved and showed signs of wear. Minor staining was evident in areas where equipment was parked. No drip pans were in use during the Site visit.

The POV area was paved and also showed signs of age and wear. Little staining was evident in this area. Most of the remaining Site was grassed and no obvious evidence of stressed vegetation or stained soil was observed.

Two piles of vegetation debris were observed in the far southwest corner of the Site. No obvious evidence of hazardous materials was observed in these piles.

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, no evidence was obtained that ASTs and/or USTs are now present or have ever existed on Site.

3.5 REVIEW OF PREVIOUS ENVIRONMENTAL REPORTS

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

3.5.1 1994 Acknowledgement of RCRA SQG Registration

In September of 1994, Permits Team Leader, Iowa Section, RCRA Branch of the USEPA acknowledged the Site's notification of regulated waste activity under RCRA.

3.5.2 1989 Order for Replacement of Rifle Range Air Handling System

In April 1989, a "Transfer and Acceptance of Military Real Property" outlined planned replacement of the air handling system for the IFR. The upgraded system would include a plenum, ductwork, exhaust fan, damper, etc.

3.5.3 2002 Range Cleanup – IA019, Burlington Memorial USAR Center

International Technology Corporation performed a range remediation and cleanup to remove residual lead from the IFR which had been removed from service several years previously. Materials were removed from the walls, ceiling, and floor and the area was cleaned prior to clearance testing. A target level of acceptable residual lead contamination was established at less than 200 $\mu g/ft^2$. Clearance samples were taken in several places in the IFR and one location outside the IFR. One blank was also analyzed. Results ranged from approximately 43 to 93 $\mu g/ft^2$ in the IFR. The scope of work described in the report included "cleaning and removing the air handling system". The report described removal and disposal of the air

handling fan and housing which had been located on the roof, but no description of cleaning, removal, or clearance samples of the duct work or plenum were included in the report. Photographs of the IFR following completion of cleaning activities show air handling ducts in place.

3.5.4 Asbestos Test Results - Miscellaneous

Several limited asbestos sampling results were reviewed with regard to materials at the Site. Materials tested included orange pipe elbow in both 1990 and 1991 which was found to be 40-50% Chrysotile. No comprehensive asbestos survey was available for review, although an asbestos awareness document was provided by Site personnel.

3.5.5 1997 Air Permit Exemption

Clark W. Ott of the IDNR Compliance Assistance Group provided a letter in March of 1997 confirming that the Site, together with several other Iowa USAR facilities, was not required to obtain an air permit.

3.5.6 1994 Environmental Compliance Assessment System (ECAS) / 2001 Engineering and Environmental Facility Assessment

A 1994 ECAS described finding from a 1993 site visit. The findings and recommendations included comments that that the OWS was not serviced regularly and annual lead testing for the IFR could not be confirmed.

In November 2001, the St. Louis Facilities Engineer Team prepared a report of their investigation. The report included RPMA work requirements, a long range maintenance plan, energy audit, environmental compliance assessment, arms vault certification and facility condition survey. This report states the buildings were constructed in 1972, although other documentation places construction in 1973. The summary states that mold was present throughout the administrative offices and classrooms. Environmental compliance findings included, without limitation, a recommendation to sample soils around the OWS near the administration building, the need for an asbestos survey of the Site and a recommendation to use drip pans in the MEP.

3.5.7 2006 Lead-Based Paint Survey/ 1997 Lead-Based Paint Analysis

A lead-based paint survey was completed in July 2006. Two hundred fifty-five (255) valid readings were taken, of which fifteen were positive. Lead-based paint was identified on painted surfaces on the exterior of the OMS and on metal columns and beams within the OMS. Seven positive readings were taken on the stair railings, treads, risers and deck of the mechanical room. The survey summary identified the mechanical room as a basement facility: in fact, the mechanical room is a second story room. The remaining positive readings were located within the administration building on lockers, a duct and a concrete floor in the drill hall.

A prior lead-based paint sampling occurred in 1997 and was specific to bay doors on the buildings and to several CONEX located at the Site. This survey was performed in conjunction

with a painting project to inform proper preparation of the areas to be painted. The CONEX were positive for lead-based paint.

3.5.8 1997 IDNR Acknowledgement of Air Permit Exemption

In 1997, in response to information submitted by Earth Tech, the IDNR agreed that the Site was exempt from air permitting requirements.

3.5.9 Hazardous Materials Management Plan / Inventories

This Site Hazardous Material Management Plan was reviewed, together with selected inventories of materials at the Site. No issues were raised by review of these documents.

3.5.10 Fort McCoy Radon Program

An undated memorandum describes results of radon testing which showed no levels above USEPA action levels.

3.5.11 2006 Drinking Water Survey / 2006 Water Alert

In 2006, a telephone survey of water supply issues was conducted by Riverfront Environmental. The findings indicated that the Site obtains its water from the city. The city reported a high trihalomethane level which reportedly was remediated by a change in chlorination. No further testing was recommended for this Site.

On February 1, 2006, the Middletown Water Supply issued an informational statement about elevated trihalomethane levels.

3.5.12 Staff Assistance Visits

Records of Staff Assistance Visits were reviewed. Certain of those records are discussed in this section.

In April 1995, findings included a lack of a radon survey or air sampling for lead for the IFR.

In October 1995, eight drums of oil and antifreeze were noted without secondary containment outside the OMS. Inappropriate storage of hazardous substances was noted as was an incomplete cleanup of a small oil spill within the OMS.

The August 2000 report documents a missing baffle in the OWS.

The February 2004 report notes the lack of asbestos and radon reports. The lack of maintenance on the OWS is noted.

3.5.13 BRAC 05 Installation NEPA Needs Questionnaire

A NEPA needs questionnaire was completed describing impacts, if any expected to be realized due to the BRAC action. The responses to the questionnaire indicate the buildings were built in 1972 and state that prior land use was ammunition manufacturing.

3.5.14 Records of Environmental Consideration

Several Records of Environmental Consideration addressing proposed alterations in the buildings were reviewed. Certain projects are discussed in this section. These documents indicate that a heat exchanger replacement in 1997 identified asbestos associated with the unit that should be removed.

The removal of a wash/grease rack was reviewed in August 1998. The project was described as “removal of all of the above ground structures and oil water separator (concrete)”. The Environmental Baseline Study recommended that the sludge in the OWS be tested for numerous parameters and disposed of according to applicable regulations. The concrete walls were recommended to be cleaned and tested to determine appropriate disposal methods. The OWS was recommended for removal and the pipe leading from the OWS to the sanitary sewer capped off.

In 1999, repainting of portions of the facility resulted in a recommendation to test the affected areas for lead-based paint. Additionally, suspended ceiling tiles and lighting fixtures were recommended for replacement. It was recommended that ceiling tiles be tested for asbestos content and ballasts be tested for PCB content. Roof replacement and repair was also addressed in 1999 with recommendations to properly remove and dispose of ACM.

3.5.15 1989 Weston Waste Site Characterization Study

Data sheets from the Weston study were reviewed. This information merely provides a listing of features at the facility which were documented in the Weston study. Features listed for the Site are a mobile storage tank, brake changing area, firing range, POL storage room, lift station, grease rack, and a vehicle wash rack with OWS.

3.5.16 2000 OWS Investigation / 2003 OWS Investigation

In August 2000, the OWS located at the south side of the OMS was investigated. Visual observations indicated a baffle was missing and the separator was not diverting oil from the outflow to the sanitary sewer. There was a report that the OWS did not hold water or oil and the report concluded that the separator was not intact and may have been leaking. Soil samples were taken at four locations around the OWS. Analysis indicated that levels of volatile organic compounds were detected in soils around the base of the OWS.

In 2003 three groundwater monitoring wells were installed to determine whether groundwater had been impacted by the operation of the OWS. The study concluded that although it appeared the OWS was leaking, no impact was discovered to the soils or groundwater. Documents indicating the wells were properly abandoned were also reviewed.

4.0 ADJACENT PROPERTIES

Figure 8 in Appendix A provides a 1994 aerial view of the Site and adjacent properties. The Site is located at 17879 Highway 79 on the western edge of Middletown, Iowa. Surrounding land use is agricultural and residential with a large military ammunition complex located to the south of the Site.

Table 1 provides a list of adjacent properties with their directional location in regards to the Site. According to the Loretta Thomann of the City of Middletown, the site is not within the city limits. Mr. Jeff Hanan with the Southeastern Iowa Regional Planning Commission confirmed that the Site is in an unincorporated portion of Des Moines County and is not subject to zoning.

TABLE 1
LIST OF ADJACENT PROPERTIES

Direction From Site	Type of Property/Name
North	Highway 79, Agricultural properties
South	Agricultural land use, reportedly owned by the U.S. Government and leased for crops, with IAAP beyond
East	Middletown Frisbee Golf Park, residential development
West	Agricultural land use, reportedly owned by the U.S. Government and leased for crops.

Appendix A provides historical aerial photographs and topographic maps, Appendix D provides historical reports and documents, and Appendix E provide EDR Reports, all of which were used to evaluate any potential environmental impacts on adjacent properties that may have also impacted the environmental condition at the Site. Land use at all adjacent properties does not appear to have changed significantly over the years and, with the exception of the possible impact of the IAAP, does not appear to have impacted the environmental conditions of the USAR Center.

5.0 REVIEW OF REGULATORY INFORMATION

A component of the ECP is the review of all reasonably obtainable federal, state, and local government records for the Site and surrounding properties, where there has been a release or likely release of any hazardous substance or any petroleum product, and which is likely to cause or contribute to a release or threatened release of any hazardous substance or any petroleum product on the Federal real property. A regulatory database summary was acquired from EDR on July 14, 2006. The regulatory database summary consolidates standard federal, state, local, and tribal environmental record sources based on ASTM recommended minimum search distances from the Site. A copy of the complete EDR report is included in Appendix E. Acronyms and abbreviations used in the summary tables below are fully explained in the EDR Report attached in Appendix E.

5.1 FEDERAL ENVIRONMENTAL RECORDS

The regulatory information presented in Table 2 was obtained from the EDR federal regulatory database search report.

TABLE 2
FEDERAL DATABASE SEARCH

Database	Search Distance (miles)	Target Site	<1/8	1/8 – 1/4	1/4 – 1/2	1/2 – 1	>1	Total Plotted
NPL	1.000		1	0	0	0	NR	1
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		1	0	0	NR	NR	1
CERC-NFRAP	0.500		0	0	0	NR	NR	0
CORRACTS	1.000		1	0	0	0	NR	1
RCRA TSD	0.500		1	0	0	NR	NR	1
RCRA Lg. Quantity Gen	0.250		1	0	NR	NR	NR	1
RCRA Sm. Quantity Gen	0.250	X	0	1	NR	NR	NR	0

TABLE 2
FEDERAL DATABASE SEARCH

Database	Search Distance (miles)	Target Site	<1/8	1/8 – 1/4	1/4 – 1/2	1/2 – 1	>1	Total Plotted
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		1	0	0	0	NR	1
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		1	0	0	0	NR	1
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	NR	NR	NR	NR	0
FINDS	TP	X	NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0

5.1.1 Federal RCRA Small Quantity Generators List Within ¼ - Mile

Conditionally exempt small quantity generators are defined as facilities generating less than 100 kilograms (kg) of hazardous waste, or 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 per month.

The Site was identified as a conditionally exempt small quantity generator with no violations reported. One large quantity generator is listed as situated within ¼-mile of the Site. See Section 5.1.3 below.

5.1.2 Facility Index System/Facility Registry System (FINDS) Site

The FINDS List contains both facility information and "pointers" to other sources that contain more detail. The EDR report includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometic 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 Statute), and PADS (PCB Activity Data System).

According to the EDR report, the USAR Center is identified as a FINDS facility due to its status as a conditionally exempt small quantity generator.

5.1.3 Iowa Army Ammunition Plant (IAAP)

The IAAP has been listed on the following databases: NPL, CERCLIS, CORRACTS, RCRA TSD, RCRA Large Quantity Generators, DOD and ROD (See EDR Report for descriptions of databases). This facility is a load, assemble, and pack munitions facility. According to available information, the IAAP consists of approximately 19,000 acres, of which approximately 8,000 are leased for agriculture, 7,500 are forested and the remainder is used for administrative and industrial operations. The IAAP includes four watersheds, including the 85-acre George H. Mathes Lake. The primary source of contamination at the facility is attributable to past operations in which explosives-contaminated wastewaters and sludges were discharged to uncontrolled, on-site lagoons and impoundments. Additional sources of contamination include open burning of explosive materials and munitions, and landfilling of waste materials. Numerous investigations have been conducted at the site by the Army from 1975 to the present to investigate soil and groundwater contamination. The facility has been assigned a high corrective action priority.

The IAAP has been the recipient of numerous violations over the years. In addition, the facility is listed for a non-regulated heating oil tank in the UST database. The tank is described as having been removed in 1991 with a no further action letter reported in 2000. The operational areas of the IAAP appear to be removed from the Site to the south. Without a substantial file review to determine the extent and location of any groundwater plume, it must be assumed that the Site may have been impacted by operations at the IAAP.

5.2 STATE AND LOCAL ENVIRONMENTAL RECORDS

The regulatory information presented in Table 3 was obtained from the EDR State and Local regulatory database search report. Sites identified by this database search are discussed in the following subsections.

TABLE 3
STATE DATABASE SEARCH

Database	Search Distance (miles)	Target Site	<1/8	1/8 – 1/4	1/4 – 1/2	1/2 – 1	>1	Total Plotted
State Haz. Waste	N/A		0	0	0	0	NR	0
State Landfill	0.500		0	0	0	NR	NR	0
LUST	0.500		0	1	0	NR	NR	1
UST	0.250		1	1	NR	NR	NR	2
LAST	0.500		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
INST CONTROL	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Brownfields	0.500		0	0	0	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0

5.2.1 State-Registered Leaking UST (LUST) Sites Within ½ - Mile

According to the EDR report, two UST facilities and one LUST facility are located within ¼-mile of the USAR Center. In reality, all three facilities are the IAAP. The LUST site was identified in 1991 and received no further action status in 2000, indicating that no further remedial action is required and that residual petroleum contamination does not pose a concern for human health or the environment. The UST listings relate to the tank that was reported in the LUST database and a second heating oil tank that was reportedly removed in 1988.

The LUST and UST sites are not considered to be a potential environmental risk to the USAR Center due to their reported status, distance, and/or gradient.

The Site is not listed in any State database.

5.2.2 State Response to Inquiry

In addition to the information provided by the EDR Report, SMG contacted the IDNR. SMG requested copies of all files maintained by any division of the IDNR, as well as records of any registered tanks located at the Site from the Fire Marshal. In addition, SMG reviewed the LUST and Contaminated Sites listings on the IDNR website to determine if the Site or an adjacent property had been impacted. Other than listings identified by EDR, no listings were identified for USTs or for any reported spill or release which would be likely to impact the property. Records received reflected the registration of the Site as a generator of less than 100 kilograms of hazardous waste per month.

5.3 TRIBAL ENVIRONMENTAL RECORDS

The regulatory information presented in Table 4 was obtained from the EDR's Tribal database search report.

TABLE 4
TRIBAL DATABASE SEARCH

Database	Search Distance (miles)	Target Site	<1/8	1/8 – 1/4	1/4 – 1/2	1/2 – 1	>1	Total Plotted
Indian Reservation	1.000		0	0	0	0	NR	0
Indian UST	0.250		0	0	NR	NR	NR	0

According to the EDR report, no sites were located within the designated radius for each of the searched Tribal Databases.

5.4 EDR PROPRIETARY RECORDS

The regulatory information presented in Table 5 was obtained from the EDR's Proprietary Records database search report.

TABLE 5 EDR PROPRIETARY DATABASE SEARCH								
Database	**Search Distance (miles)**	**Target Site**	**<1/8**	**1/8 – 1/4**	**1/4 – 1/2**	**1/2 – 1**	**>1**	**Total Plotted**
Manufactured Gas Plants	1.000		0	0	0	0	NR	0
EDR Historical Auto Stations	TP		NR	NR	NR	NR	NR	
EDR Historical Cleaners	TP		NR	NR	NR	NR	NR	

According to the EDR report, no sites were located within the designated radius for each of the searched EDR Proprietary Databases.

5.5 UNMAPPED SITES

The EDR database search yielded three unmapped sites. Unmapped sites are those with insufficient address information such that they can only be identified as within the zip code of the Site. A reasonable effort was made to locate these sites and assess their relevance to this ECP report. Further research was conducted using the mapping utility provided at maps.google.com. The locations of the orphaned sites were identified and mapped and found to be distant from the Site.

5.6 SUMMARY OF PROPERTIES EVALUATED TO DETERMINE RISK TO THE SITE

To summarize Subsections 5.1 through 5.5, one property was evaluated as a potential risk to the Site. The property evaluated was identified as a result of information obtained during area reconnaissance and regulatory database searches and is listed in Table 6.

TABLE 6 PROPERTIES EVALUATED FOR POTENTIAL ENVIRONMENTAL RISKS				
Company/ Site	**Database**	**Elevation in Regards to Site**	**Potential Risk to Site?**	**Comment**
IAAP	LUST, RCRA-LGQ, CORRACTS, NPL, ERNS, CERCLIS, RCRA TSD, DOD, ROD, UST	Equal	Yes	UST/LUST listings do not appear to be a concern. Soil & groundwater contamination may have impacted the Site due to proximity.

Based on an evaluation of available site information and details concerning the property listed in Table 7, this facility is classified as “High Risk”. “High Risk” properties are those that exhibit

significant environmental conditions that have the probability of adversely affecting the environmental conditions at another site.

6.0 SITE INVESTIGATION AND REVIEW OF HAZARDS

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

6.1 UNDERGROUND/ABOVEGROUND STORAGE TANKS

No evidence was obtained or reviewed to indicate that USTs or ASTs have historically existed on-site or are currently present on-site. It was reported that, when at full strength, the unit would have petroleum, oils, and lubricants (POL) on-site in 55 gallon containers, and waste fluids would be temporarily stored in designated 55 gallon drums prior to disposal. According to Site personnel, these materials would be used and replaced, resulting in no storage of a particular POL which would exceed a year.

6.2 INVENTORY OF CHEMICALS / HAZARDOUS SUBSTANCES

On the date of the Site visit, a small number of cleaning and janitorial supplies were observed in the janitorial closet located near the main administrative office. Additional cleaning supplies were reportedly contained in a locked cabinet located in the hall near the closet. Access to the cabinet was not available at the time of the Site visit.

A flammable cabinet was located within the drill hall (Photograph 19, Appendix B) and contained a small amount of miscellaneous flammable material (lubricating oil, paint, glass cleaner). A spill kit was located adjacent to the flammable cabinet.

Additional chemical storage was located in and adjacent to the OMS, utilizing one flammable cabinet in the building and three hazardous material sheds adjacent to the north wall of the OMS (Photographs 17-18, Appendix B). A spill kit was located near the hazardous materials sheds.

6.3 WASTE DISPOSAL SITES / IMPACTED AREAS

Two areas within the MEP had been used to burn scrap, reported to be wood waste from shipping crates. The first area was adjacent the south OWS; the second was near the south west corner of the fenced MEP.

Two piles of discarded plant material were observed at the southwest corner of the Site. No obvious evidence of a hazardous substance was observed. The waste piles may have been deposited by the property maintenance provider or by others accessing the property to dump excess material. With this possible exception, there were no signs of landfills or illegal waste disposal activities at the Site during the August 2006 site visit.

Evidence of the use of herbicides was observed along the east wall of the OMS between the building and the fence. An area of stressed grass was also observed around the south lift station and sewer manhole outside the MEP fence. Site personnel reported that the property maintenance company may have applied herbicides to these areas in order to eliminate mowing

or weeding at this site. Copies of licenses for past and present lawn care personnel are included in Appendix D, together with a copy of a label for Roundup, reported to be the herbicide used.

6.4 PITS, SUMPS, DRYWELLS, AND CATCH BASINS

Several floor drains were observed in the administration building. No staining or odors was observed in or around any of the floor drains. The OMS reportedly has no floor drains and none were observed. Two wash racks were observed, outside the east door to the administration building and on the south side of the OMS. Each wash rack was reportedly associated with an OWS which discharge to the sanitary sewer, according to Site personnel. Site personnel have no record or knowledge of maintenance, repair or inspection of the OWS near the administration building. The OWS south of the OMS has been investigated, according to historic documents.

Evidence of a former grease rack was observed south of the OMS, adjacent to the wash rack. Historic documents indicate this structure was removed from service and filled in the late 1990s. Documents reviewed indicate this structure was concrete lined with a drain connecting to an OWS. No information was available for review as to the removal and disposal of the concrete and drain structure, confirmation of no impact to the surrounding environment or the source and content of the materials used to backfill the pit. The former pit has soft, un-compacted soil and gravel in place. One area was observed to have new fill material and was reported to be the result of a “sinkhole” developing over the winter of 2005-2006. The recent fill material was reportedly taken from the loose gravel and dirt located at the end of the heavy vehicle parking area.

Surface stormwater should generally sheet flow away from the site toward the east and then to the south. Several stormwater inlets were observed in the POV and MEP areas. A site plan was reviewed (see Appendix D) depicting the stormwater flow at the site and the stormwater system flow to the east and south.

6.5 ASBESTOS CONTAINING MATERIAL

Limited asbestos sampling was conducted in 1990 and 1991. Documents were reviewed detailing analytical results for 3-4 samples of roofing material and heating system elbows. Based upon the age of the facility (constructed in 1973), and in accordance with applicable regulation, certain materials at the Site are classified as Presumed Asbestos Containing Materials (PACM). PACM includes vinyl floor tile, associated mastic, wall board, plaster, sprayed on or troweled-on material, thermal system insulation and roofing materials.

Observation of the Site identified numerous PACM. Vinyl floor tile found throughout the administration building was old and, in some areas, damaged. Pipe wrap located on the hot water pipes in the corners of the administrative offices and classrooms was identified as potential ACM. This material is classified as friable. Similar pipe wrap was observed in the OMS was in poor condition. The boiler room contained numerous friable PACM in poor condition. Photographs 21-29, Appendix B illustrate some of the PACM identified during the Site visit.

The roof of the Site was recently replaced with a membrane system and therefore it is presumed that roofing materials no longer contain ACM. No information was reviewed documenting the proper removal and disposal of former roofing materials which may have contained asbestos.

No abatement of ACM has been reported. No asbestos management plan was available for review, although an asbestos awareness document was provided by Site personnel.

6.6 POLYCHLORINATED BIPHENYL CONTAINING EQUIPMENT

One pad-mounted transformer, unlabeled as to PCB content or owner, was located near the entrance driveway along the north property line at Highway 79. The transformer appeared to be in good condition and no obvious evidence of leakage or disrepair was observed. No other transformers were observed on site.

During the August 2006 site visit, older-style fluorescent light fixtures were observed in the administration building. Older fixtures, especially those that are original to the Site, could potentially contain PCBs. The ballasts currently present at the Site 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 Site. If any ballasts that are not marked “No PCBs” are encountered and begin to leak or are removed from service, they should be assumed to contain PCBs and be managed in accordance with applicable local, State, and Federal regulations.

6.7 LEAD-BASED PAINT

A lead-based paint survey was completed in July 2006. Two hundred fifty-five (255) valid readings were taken, of which fifteen were positive. Lead-based paint was identified on two painted surfaces on the exterior of the OMS, and two positive readings were located on metal columns and beams within the OMS. Seven positive readings were taken on the stair railings, treads, risers, and deck of the mechanical room. The survey summary identified the mechanical room as a basement facility: in fact, the mechanical room is a second story room. The remaining four positive readings were located within the administration building on lockers, a duct and a concrete floor in the drill hall.

6.8 RADON

An undated Memorandum was reviewed which referenced the Fort McCoy Radon Program. The memo stated that radon levels found at the Site were below the USEPA accepted action level of 4.0 pCi/l.

6.9 MUNITIONS AND EXPLOSIVES OF CONCERN

No indications of MEC were observed during the site visit in August 2006. It was reported by site personnel that no MEC, including unexploded ordnance have been stored or disposed on the site. Limited small arms were reported by Site personnel to be stored in the Arms Vault. No

ammunition was reported to be present at the Site. SMG did not have access to the Arms Vault.

The Site is adjacent to the IAAP which makes, packs, and tests munitions. Operational areas of the IAAP are removed from the USAR Center. The surrounding area has historically been used for agriculture. No information was reported indicating that the Site or surrounding property has been impacted by MEC.

6.10 RADIOACTIVE MATERIALS

One storage cage was marked to contain radioactive material. Site personnel reported the placard referred to low level radioactive material which had been among the supplies and material deployed and were not present at the time of the Site visit. This material is reportedly kept locked with limited access when it is present. No indications were found of the improper use, storage or release of radiological materials at the USAR Center during the August 2006 site visit and records review process.

7.0 REVIEW OF SPECIAL RESOURCES

7.1 LAND USE

Figure 6 in Appendix A provides a 1994 aerial photograph of the USAR Center and surrounding properties and depicts current land use. Based on the topographic map, the Site lies in a predominantly agricultural area west of Middletown and north of the IAAP. Residential land use is depicted to the east of the Site.

7.2 COASTAL ZONE MANAGEMENT

The Site does not lie within 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 site or adjacent properties (**http://www.fws.gov/nwi/**). Figure 10 in Appendix A provides a map of wetlands in the immediate vicinity of the Site.

Soils identified as occurring at or near the Site include potential hydric soil. However, during the August 2006 site visit, no vegetation indicative of saturated areas was observed on or adjacent to the Site.

7.4 100-YEAR FLOODPLAIN

A review of the FEMA digital Flood Hazard Area map, depicted in Figure 9, Appendix B, indicates that the Site lies outside the area designated as flood zone. (**://www.msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView?storeId=10001&catalogId=10001&langId=-1 –)**

7.5 NATURAL RESOURCES

No site-specific report relating to natural resources was available. Readily available resources were accessed to determine the likelihood that the Site may have significant natural resources. The National Wilderness Preservation System (**http://www.wilderness.net/index.cfm?fuse=NWPS)** was reviewed and indicates Iowa has no National Wilderness Preservation sites.

Mapping of National Historic Trails was also reviewed. (**http://www.nps.gov/hfc/carto/nps-trails.htm#)** Southern Iowa supports historic trails; however, available mapping does not clearly identify the exact location of those trails. The Site is established and no action is being contemplated that would have an impact on an existing trail.

The National Wildlife Refuge System was accessed to determine if the Site is on or adjacent to a National Wildlife Refuge. The map of National Wildlife Refuges can be accessed at **http://www.fws.gov/refuges/pdfs/refugeMap0930_2005.pdf** and illustrates that the site is not adjacent to or near a designated National Wildlife Refuge.

The U.S. Fish and Wildlife Service maintains a list of threatened and endangered species in Iowa. There are currently three species listed which occur in Des Moines County.

Status	***Species/Listing Name***	***Habitat***
E	**Indiana bat *(Myotis sodalist)***	**caves, mines; small stream corridors with well-developed riparian woods; upland and bottomland forests**
T	**Bald eagle *(Haliaeetus leucocephalus)***	**Wintering**
E	**Higgins' eye pearly mussel (*Lampsilis Higgins)***	**Mississippi River**

The Site is unlikely to contain habitat for any of these species, nor is any action planned that would alter an existing habitat.

7.6 CULTURAL RESOURCES

No site-specific survey addressing cultural resources was available for review. The listing of sites included on the National Register of Historic Places (NRHP) located within Des Moines County may be accessed through **http://www.nationalregisterofhistoricplaces.com/state.html**. None of the listed historic properties appear to be adjacent to or near the Site. The building at the Site was not likely to meet the criteria for inclusion in the NRHP.

7.7 OTHER SPECIAL RESOURCES

As reported in the National Wild and Scenic Rivers (WSR) System, there are no designated Wild and Scenic Rivers in Iowa (**http://www.nps.gov/rivers/wildriverslist.html**).

8.0 CONCLUSIONS

SMG, in conjunction with FMSM, was authorized by the USACE to prepare an ECP Report for the Burlington Memorial U.S. Army Reserve Center (IA019), located at 17879 Highway 79, Middletown, Iowa 52638 on approximately 11.0 acres of land. The Site is currently occupied by Charlie Company of the 389th Engineer Battalion. The Site has primarily functioned as an administrative, logistical, and educational facility, with training and administrative functions.

Findings of this ECP are based on existing environmental information, including visual observations, site records, federal, state, and local database and file information, related to the storage, release, treatment, or disposal of hazardous substances or petroleum products or derivatives on the property. The following paragraphs present the findings related to areas of potential environmental concern that were evaluated during the ECP process.

- ***Use & Storage of CERCLA Hazardous Substances*** - Chemicals containing CERCLA hazardous substances are used and stored at the Site in amounts necessary to support unit-level vehicle and building maintenance activities. On the date of the Site visit, no hazardous substances were observed in quantities which exceed the corresponding CERCLA RQs. There is no evidence obtained or observed that the chemicals used or stored were released, or disposed at the Site. Therefore, it is not believed that the past use and storage of hazardous substances have negatively impacted environmental conditions at the Site.

- ***Petroleum Product Storage / USTs, ASTs*** - Petroleum storage reportedly occurred on the Site in the past in storage areas located in and adjacent to the OMS. There is no evidence that non-UST/AST petroleum products in excess of 55 gallons have been stored for one year or more on the Site. Based on information obtained and observations, no USTs or ASTs are or have been present on the Site.

- ***Pits, Sumps, Drywells, and Catch Basins*** - Two OWS have been reported to be located at the USAR Center. The north OWS is located outside the east door of the administration building, close to the storage area and drill hall. The north OWS is connected to a wash rack in the same vicinity and is reported to discharge to the sanitary sewer. Site personnel reported that this wash rack is not currently in use. No information was obtained as to maintenance, repair or inspection of the wash rack or OWS. The south OWS was reportedly located south of the OMS near a second wash rack and was reported to discharge to the sanitary sewer. The south OWS was not observed during the site visit. Historic records indicate that an inspection of the OWS in 2000 determined the structure was potentially leaking to the subsurface. The soil and groundwater near the south OWS were tested in 2002 and no evidence of significant impact to the soil or shallow groundwater was found. However, inspection of the OWS at that time confirmed that it was not operable and did not hold water. The south wash rack is apparently not currently in use as it was plugged with soil and standing water.

  Evidence of a former grease rack was observed south of the OMS, adjacent to the wash rack. Historic documents indicate this structure was removed from service and backfilled in the late 1990s. Documents reviewed indicate this structure was concrete

lined with a drain connecting to the OWS. No information was available for review as to the removal and disposal of the concrete and drain structure, confirmation of no impact to the surrounding environment, or the source and content of the materials used to backfill the pit. The former pit has soft, un-compacted soil and gravel in place. One area was observed to have new fill material and was reported to be the result of a "sinkhole" developing over the winter of 2005-2006. The recent fill material was reportedly taken from the loose gravel and dirt located at the end of the heavy vehicle parking area.

Maintenance Activities – Site personnel reported that vehicle and equipment maintenance is currently performed at the Site. Maintenance includes checking and changing of fluids, batteries, tires and tracks.

- ***PCB Transformers*** – One pad-mounted electrical transformer, unmarked for PCB content or ownership, was observed adjacent to the entrance to the Site at Highway 79. The transformer appeared to be in good condition with no obvious signs of leakage or disrepair.

- ***PCB Equipment -*** Based on the reported construction date of the building (1973) some of the light ballasts could potentially contain PCBs. Since the light ballasts are in service and are not leaking, they are apparently in compliance with Federal and State regulations and have not negatively impacted environmental conditions at the Site. However, if ballasts that are not marked "No PCBs" begin to leak or are removed from service, they must be managed in accordance with applicable local, State, and Federal regulations.

- ***Asbestos*** – Records indicate that ACMs are present at the facility. Analytical data from several roofing and pipe elbow samples determined to be ACM were reviewed, although there is no evidence that a comprehensive asbestos survey has been performed at the Site or that asbestos removal has occurred. Based upon the age of the facility (construction completed in 1973) and applicable regulation, PACM are present at the facility. The roof has been replaced with a membrane system in recent years and therefore is not suspected of containing ACM, although no records of appropriate asbestos removal and disposal were obtained.

  Observation of the Site identified numerous PACM. Vinyl floor tile found throughout the administration building was old and, in some areas, damaged. Pipe wrap located on the hot water pipes in corners of the administrative offices and classrooms was identified as friable PACM. Similar pipe wrap was observed in the OMS and was in poor condition. The boiler room contained numerous friable PACM in poor condition. No evidence of asbestos abatement was obtained. Although an asbestos awareness document was provided for review, there was no evidence that an asbestos management plan was available or implemented at the Site.

- ***Lead-Based Paint*** – In July 2006 a lead-based paint survey was completed. Two hundred fifty-five (255) valid readings were taken, of which fifteen were positive. A total of four positive lead-based paint readings were identified on painted surfaces on the exterior of the OMS and on metal columns and beams within the OMS. Seven positive

readings were taken on the stair railings, treads, risers, and deck of the mechanical room. The survey summary identified the mechanical room as a basement facility; in fact, the mechanical room is a second story room. The remaining positive readings were located within the administration building on lockers, a duct, and a concrete floor in the drill hall.

- ***Radon*** – An undated Memorandum was reviewed which referenced the Fort McCoy Radon Program. The memo stated that radon levels found at the Site were below the USEPA accepted action level of 4.0 pCi/l.

- ***Radiological Materials*** – No radiological materials were reportedly stored on Site at the time of the August 2006 Site visit. There is no evidence to suggest that any radiological commodities were ever improperly managed at the Site, or that any radionuclides were ever released.

- ***Munitions and Explosives of Concern*** - No observations or documentation were identified during the site reconnaissance or records review process that would indicate the usage or past presence of MEC, including unexploded ordnance. An arms vault is present on Site but was not accessible. Small arms were reported to be present in the vault, along with minimal rounds of ammunition.

- ***Former IFR*** – The former IFR was cleaned and clearance sampling conducted. The report of this activity did not disclose if the air handling system serving the former IFR was assessed, cleaned, or removed.

- ***Waste Disposal Sites / Impacted Areas*** – Two piles of waste plant material were observed on the southwest corner of the Site. The source of this material is unknown. Although no evidence of hazardous substances was observed, the interior of the waste piles could not be observed without excavation.

  Two areas were observed where burning of what was reported to be wood waste had occurred. Evidence of the use of herbicides was observed along the east wall of the OMS between the building and the fence. An area of stressed grass was also observed around the south OWS and sewer manhole outside the MEP fence. Site personnel reported that the property maintenance company may have applied herbicides to these areas in order to eliminate mowing or weeding at this site.

- ***Nearby Properties -*** Potential environmental sites of concern, located within corresponding ASTM search radius distances from the Site, were evaluated. One of the properties evaluated, the IAAP, is considered high risk. “High Risk” properties are those that exhibit environmental conditions that have the probability of adversely affecting the environmental conditions at another site. Due to reported contamination of soil and groundwater at the IAAP and its proximity to the Site, there is a possibility of impact to the Site from operations and the adjacent property.

In accordance with ASTM Designation D5746-98 (2002), Standard Classification of Environmental Condition of Property Area Types for Defense Base Closure and Realignment

Facilities, the Site has been classified as Type 2, an area or parcel of real property where only the release or disposal of petroleum products or their derivatives has occurred. This classification is based on the evidence from two investigations of the south OWS by the USGS in 2000 and 2002. The site does not appear to be significantly impacted, based upon soil and groundwater sampling performed in 2002.

9.0 LIMITATIONS

This ECP Report was prepared to review certain elements of the environmental condition of property related to the storage, release, treatment, or disposal of hazardous substances or petroleum products. It documents efforts to determine or discover the presence or likely presence of a release or threatened release of these materials. Project activities were performed in general conformance with ASTM D6008, the project prescribed scope of work, and generally accepted practices in the consulting industry. The degree of care and skill is consistent with that generally exercised in the industry under similar conditions.

SMG, in conjunction with FMSM, has relied on certain information provided by the USACE, USAR, and other parties referenced in the report. This information was assumed to be accurate and complete unless information to the contrary arose during the course of the investigation. Historic documentation (e.g., information on past environmental practices, environmental records, USARC operational changes, unit and equipment changes, chemical/substance inventories and storage, current as-built drawings, etc.) and facility personnel knowledge regarding chemicals used or stored on the Site and the quantities stored, was often limited or non-existent. Therefore, statements regarding storage of chemicals or presence of hazardous substances reflect best available data and are not warranted for either completeness or accuracy over the history of the facility.

In preparing this report, SMG was required to review previous documents from other sources (collectively referred to herein as the Prior Reports). The Prior Reports may present findings regarding the abatement or remediation of *known* concerns at the time of their preparation or within the limit of the project scope of work. The Prior Reports may include statements or opinions of the original authors of the Prior Reports as to the satisfactory completion of work. SMG notes that environmental laws and regulations, including abatement or remedial action levels, are periodically reviewed and updated by the various regulatory agencies and may have changed since the respective dates of the Prior Reports.

SMG has summarized certain of the Prior Reports in fulfilling the project prescribed scope of work. This summarization may include statements or opinions as to the satisfactory completion of work. These statements or opinions are those of the original report authors. SMG neither warrants nor certifies the accuracy or completeness of these statements. The summarization of previous documents has not reviewed or updated those conclusions with regards to actions from the time of that document to date, current regulatory agency abatement, or remedial standards. Rather, this summary provides the original author's conclusions at the time the report was prepared. Evaluation of the completeness of previous documents or statements of abatement or remediation is beyond the current scope of service included in this contract.

A limited site reconnaissance was performed to visually identify materials or conditions representing recognized adverse environmental conditions. Identification of hidden conditions, observation of the effects of activities or incidents occurring after completion of the reconnaissance, buried conditions, conditions obscured by dense foliage, conditions beneath buildings, other structures, or covered by building/paving materials, or conditions otherwise obscured, is beyond the scope of this work. The conditions described in this report are valid only for the time that the observations were made. Some conditions may change with time.

10.0 REFERENCES

PERSONS CONTACTED

- Mr. Michael Herman, Environmental Coordinator, 89th Regional Readiness Command, repeated contact
- Ms. Norma Cabanas, Facility Manager, Burlington Memorial USAR Center IA019, Middletown, Iowa, site visit, August 9, 2006
- Sgt. Michael Shea, Motor Sergeant, Charlie Company, 389th Engineer Battalion, Burlington Memorial USAR Center IA019, site visit, September 6, 2006
- Mr. Steven Miller, TAD Technical, Contractor for 89th Regional Readiness Command, Iowa State Environmental Coordinator, Site visit, August 9, 2006
- Ms. Loretta Thumann, City of Middletown, Iowa, September 15, 2006
- Mr. Jeff Hanan, Southeastern Iowa Regional Planning Commission, September 15, 2006

RESOURCES CONSULTED

- Aerial Photograph provided by EDR dated 1956, 1984, and 1994.
- Aerial Photograph available from the USGS through the USGS Terraserver Web site dated 1994.
- Topographic map provided by EDR dated 1981
- National Wetlands Inventory Maps, http://www.fws.gov/nwi/.
- U.S. Department of Agriculture Web Soil Survey Map of Des Moines County, Iowa
- U.S. Department of Agriculture, Natural Resources Conservation Services, National Hydric Soils List by State, http://soils.usda.gov/use/hydric/lists/state.html
- FEMA Flood Mapping, ://www.msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView?storeId=10001&catalogId=10001&langId=-1 –
- National Oceanic and Atmospheric Administration, Ocean and Coastal Resource Management, http://coastalmanagement.noaa.gov/mystate/welcome.html
- U.S. Fish and Wildlife List of Threatened and Endangered Species, http://www.fws.gov/endangered/
- National Register of Historic Places, http://www.cr.nps.gov/nr/mpslist.html

- National Wilderness Preservation System, http://www.wilderness.net/index.cfm?fuse=NWPS
- National Refuge System, http://www.fws.gov/refuges/pdfs/refugeMap0930_2005.pdf
- National Wetlands Management Districts of the National Wildlife Refuge System, http://www.fws.gov/refuges/pdfs/WMDs2005.pdf
- Wild and Scenic Rivers, http://www.nps.gov/rivers/wildriverslist.html
- Wild and Scenic Trails map,http://www.nps.gov/hfc/carto/nps-trails.htm#
- Federal Regulatory Databases
    - National Priorities List (NPL), 19 April 2006
    - Proposed NPL Sites, 19 April 2006
    - Delisted NPL Sites, 19 April 2006
    - Federal Superfund Liens (NPL Liens), 15 October 1991
    - Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS), 1 February 2006
    - CERCLIS No Further Remedial Action Planned Sites (NFRAP), 1 February 2006
    - Resource Conservation and Recovery Information System (RCRIS) Corrective Action Sites (CORRACTS), 15 March 2006
    - Resource Conservation and Recovery Act Information (RCRA), 9 March 2006
    - Emergency Response Notification System (ERNS), 31 December 2005
    - Hazardous Materials Information Reporting System (HMIRS), 31 December 2005
    - Engineering Controls Sites List (US ENG CONTROLS), 21 March 2006
    - Sites with Institutional Controls (IS INST CONTROL), 21 March 2006
    - Department of Defense Sites, 31 December 2004
    - Formerly Used Defense Sites (FUDS), 5 December 2005
    - Listing of Brownfields Sites, 26 April 2006
    - Superfund Consent Decrees, 14 December 2004

- Records of Decision (ROD), 13 April 2006
- Uranium Mill Tailings Sites, 4 November 2005
- Open Dump Inventory (ODI), 30 June 1985
- Toxic Chemical Release Inventory System (TRIS), 31 December 2003
- Toxic Substances Control Act (TSCA), 31 December 2002
- FIFRA/TSCA Tracking System, 29 March 2006
- FTTS INSP, 31 March 2006
- Section 7 Tracking Systems (SSTS), 31 December 2004
- Integrated Compliance Information System (ICIS), 13 February 2006
- PCB Activity Database System (PADS), 27 December 2005
- Material Licensing Tracking System (MLTS), 12 April 2006
- Mines Master Index File (MINES), 9 February 2006
- Facility Index System/Facility Registry System (FINDS), 27 April 2006
- RCRA Administrative Action Tracking System (RAATS), 17 April 1995
- Biennial Reporting System (BRS), 31 December 2003

• State and Local Regulatory Databases

- Hazardous Substance Cleanup Fund (SHWS), 31 December 2005
- Permitted Solid Waste Management Facilities (SWF/LF), 5 April 2005
- Leaking Underground Storage Tank Listing, 27 April 2006
- Underground Storage Tank File, 27 April 2006
- Leaking Aboveground Storage Tank Sites (LAST). 6 April 2006
- Aboveground Storage Tank (AST) Sites, 17 January 2006
- SPILLS – Emergency Response Database, 11 April 2006
- Sites with Institutional Controls, 16 February 2006

- Land Recycling Program Sites (VCP), 14 February 2006
- Iowa Drycleaner List (DRYCLEANER), 30 May 2006
- Brownfields Site Listing, 16 February 2006
- Minor and Title V Sources Listing (AIRS), 11 April 2006

- Tribal Records
  - Indian Reservations, 31 December 2004
  - Underground Storage Tanks on Indian Land (INDIAN UST), 14 December 2005

AGENCIES CONTACTED

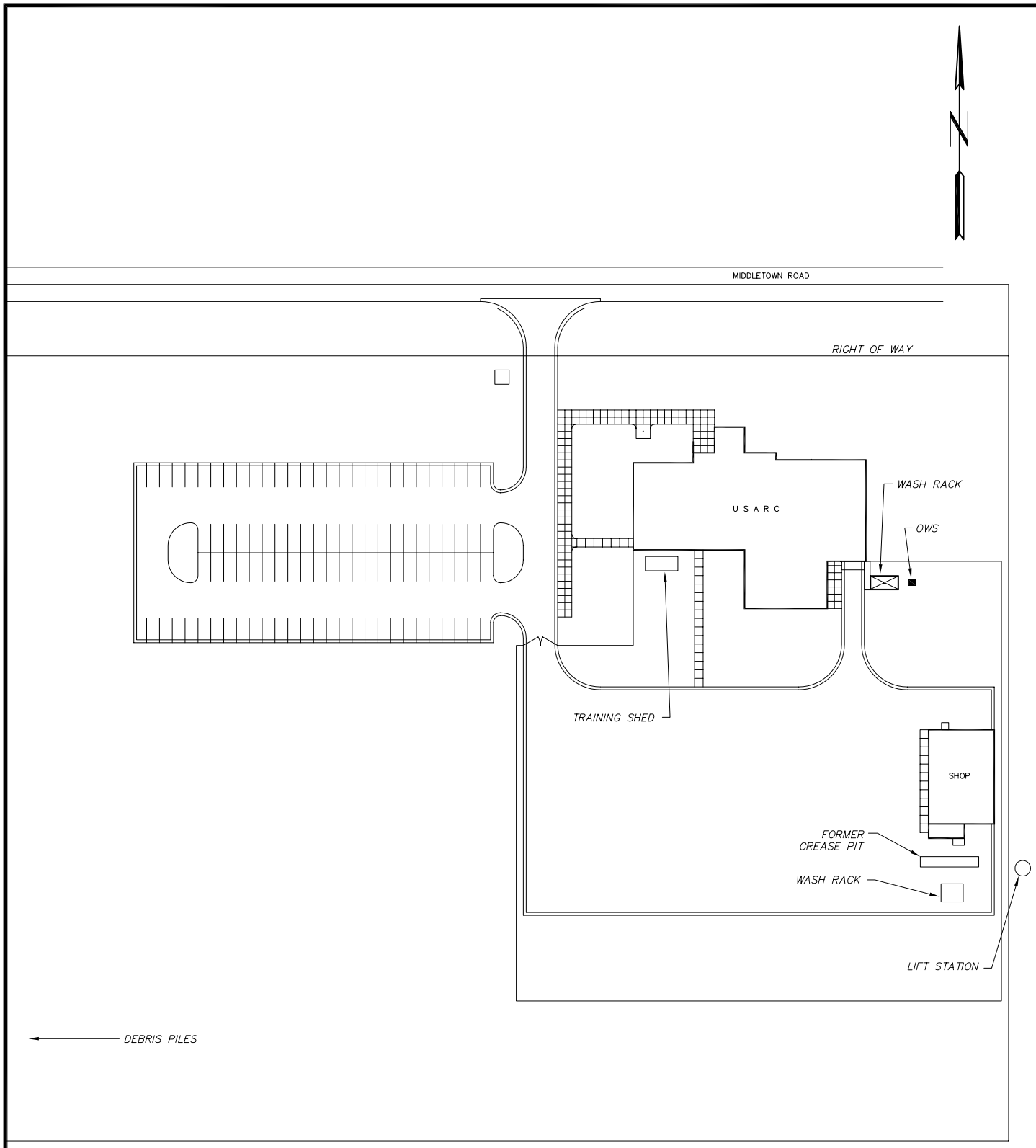
- Iowa Department of Natural Resources

APPENDIX A
BURLINGTON MEMORIAL USAR CENTER
IA 019

FIGURES

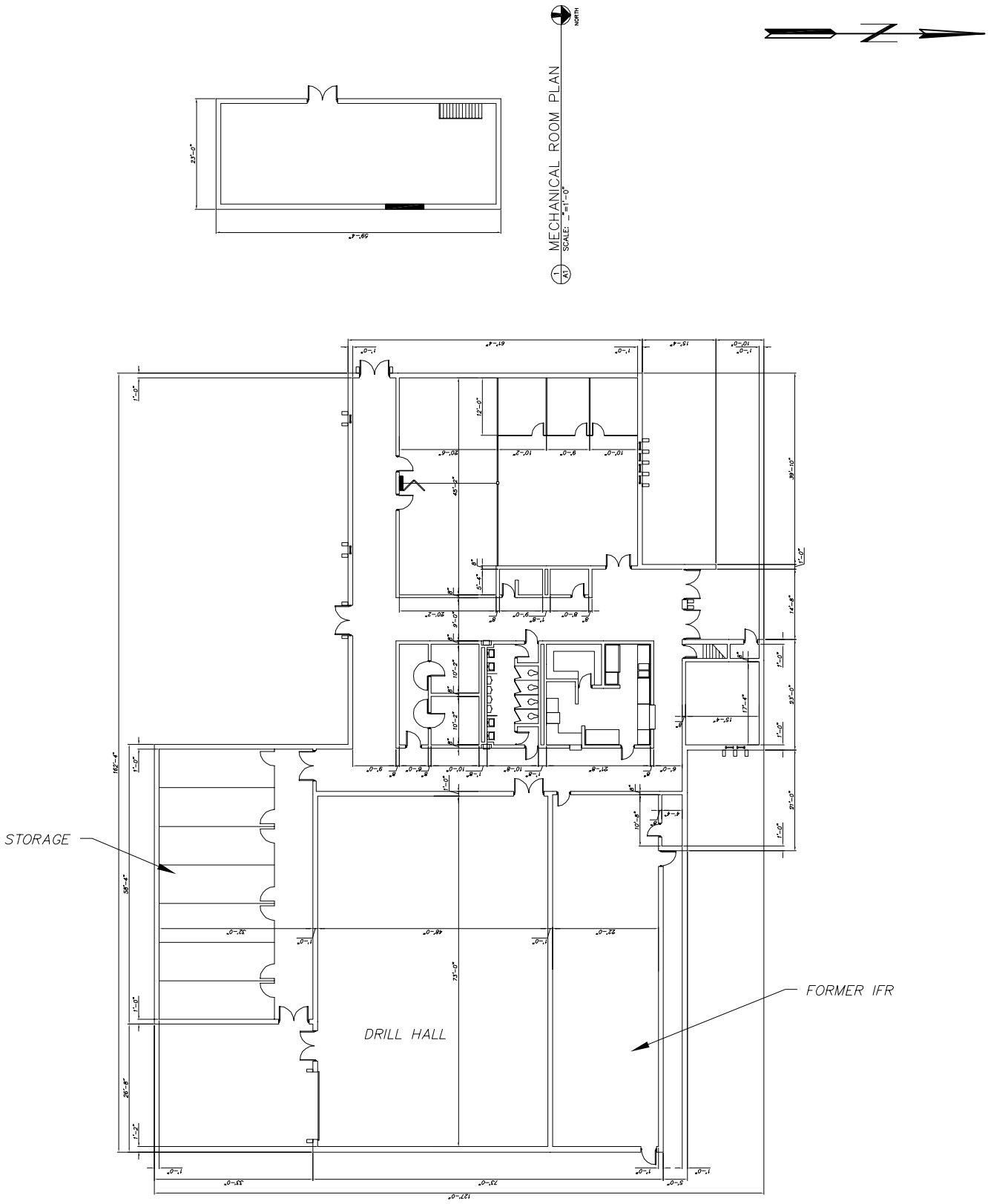
MSM ENGINEERS

FIGURE 1
SITE LOCATION MAP
BURLINGTON MEMORIAL USAR (IA019)
17879 HIGHWAY 79
MIDDLETOWN, DES MOINES COUNTY, IOWA



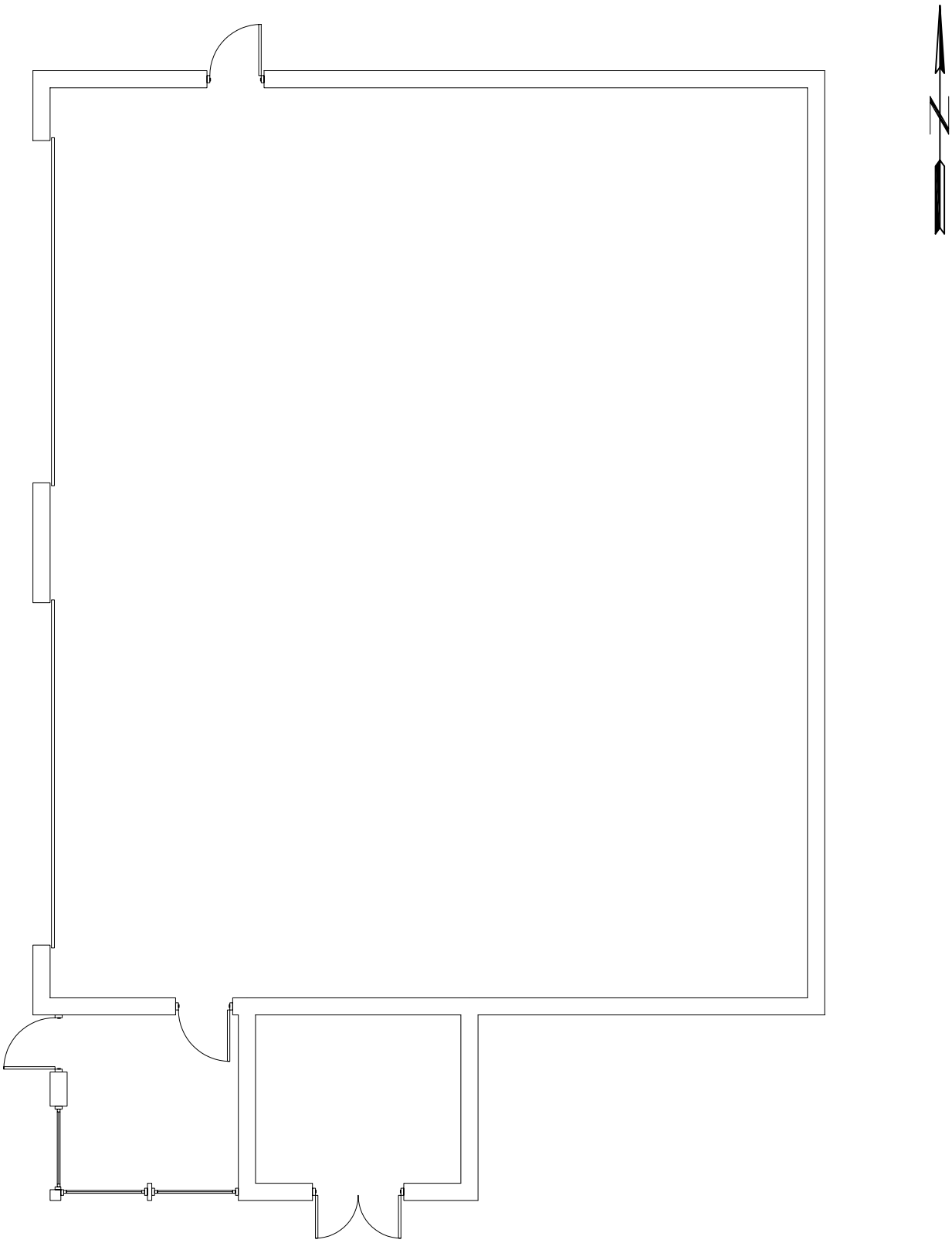
MSM ENGINEERS

FIGURE 2
SITE PLAN
BURLINGTON MEMORIAL USAR (IA019)
17879 HIGHWAY 79
MIDDLETOWN, DES MOINES COUNTY, IOWA



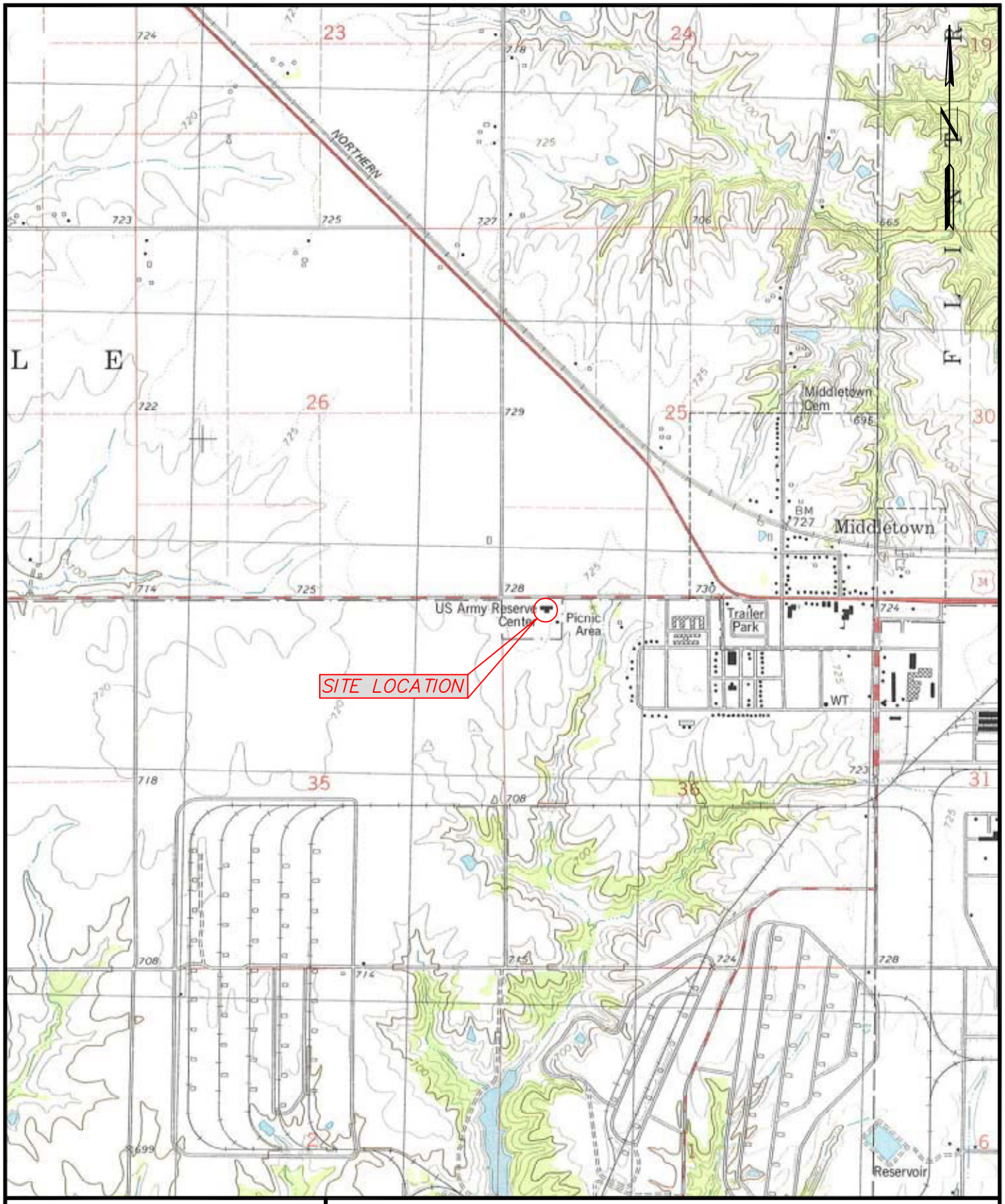
MSM ENGINEERS

FIGURE 3
ADMINISTRATION BUILDING INTERIOR SITE LAYOUT
BURLINGTON MEMORIAL USAR (IA019)
17879 HIGHWAY 79
MIDDLETOWN, DES MOINES COUNTY, IOWA



MSM ENGINEERS

FIGURE 4
MAINTENANCE BUILDING INTERIOR SITE LAYOUT
BURLINGTON MEMORIAL USAR (IA019)
17879 HIGHWAY 79
MIDDLETOWN, DES MOINES COUNTY, IOWA



MSM ENGINEERS

FIGURE 5
1981 USGS TOPOGRAPHIC MAP, DANVILLE
BURLINGTON MEMORIAL USAR (IA019)
17879 HIGHWAY 79
MIDDLETOWN, DES MOINES COUNTY, IOWA

MSM ENGINEERS

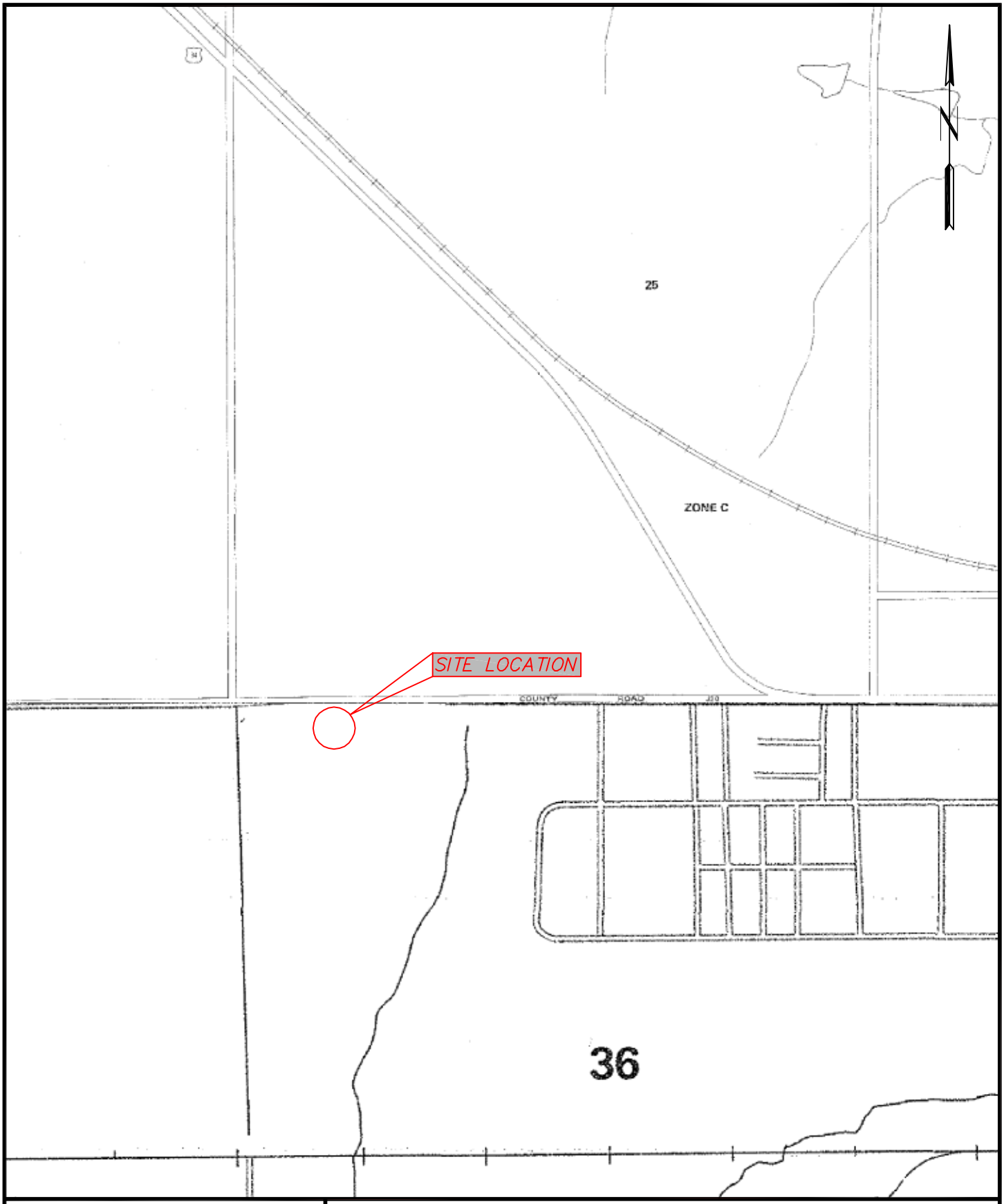
FIGURE 6
1956 AERIAL PHOTOGRAPH
BURLINGTON MEMORIAL USAR (IA019)
17879 HIGHWAY 79
MIDDLETOWN, DES MOINES COUNTY, IOWA

MSM ENGINEERS

FIGURE 7
1984 AERIAL PHOTOGRAPH
BURLINGTON MEMORIAL USAR (IA019)
17879 HIGHWAY 79
MIDDLETOWN, DES MOINES COUNTY, IOWA

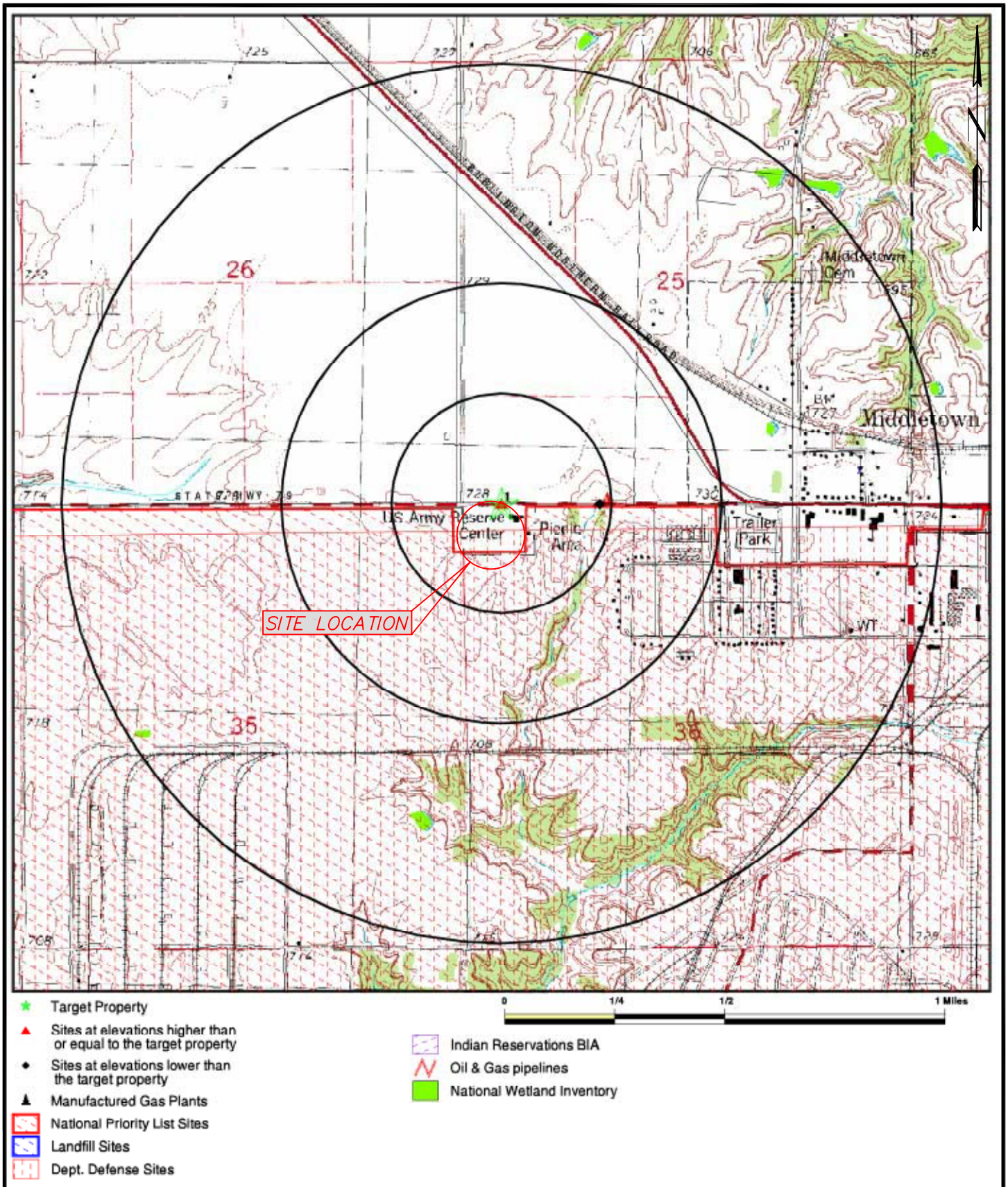
MSM ENGINEERS

FIGURE 8
1994 AERIAL PHOTOGRAPH
BURLINGTON MEMORIAL USAR (IA019)
17879 HIGHWAY 79
MIDDLETOWN, DES MOINES COUNTY, IOWA



MSM ENGINEERS

FIGURE 9
FLOODPLAIN ZONES
BURLINGTON MEMORIAL USAR (IA019)
17879 HIGHWAY 79
MIDDLETOWN, DES MOINES COUNTY, IOWA



MSM ENGINEERS

FIGURE 10
WETLANDS MAP
BURLINGTON MEMORIAL USAR (IA019)
17879 HIGHWAY 79
MIDDLETOWN, DES MOINES COUNTY, IOWA

APPENDIX B
BURLINGTON MEMORIAL USAR CENTER
IA 019

PHOTOGRAPHS

1) Burlington Memorial USAR Center (IA019). Front of the Administration Building, looking southeast.

2) Administration building, looking north from the MEP..

3) Front (west side) of the OMS.

4) South side of the OMS. Former grease pit is visible in the front of the photograph.

5) POV and view to the east of the Site.

6) MEP and view to the south of the Site. Site boundary was reported to be the "edge of the corn".

7) View to the north of the Site, depicting Highway 79 and cropland.

8) View along Highway 79 and property east of the Site.

9) Wash rack located outside east door of the administration building.

10) OWS located adjacent to wash rack.

11) Wash rack located south of the OMS. Note standing water and used tire stack.

12) Structure reported to be OWS by site contact located south of OMS. Believed to be lift station. Note stressed vegetation.

13) Area of backfilled grease pit showing recent addition of dirt and gravel.

14) Strip between east wall of the OMS and the MEP fence with no vegetation.

15) Burn area located near south west corner of MEP fence.

16) Crate burn residue adjacent to wash rack, south of OMS.

17) Metal storage container, CONEX, hazardous materials sheds adjacent to tnorth wall of the OMS.

18) Flammable cabinet in OMS.

19) Flammable cabinet in drill hall, administration building.

20) Storage area with notice of radioactive storage. Material was reportedly not present during site visit.

21) Thermal system insulation in OMS.

22) Thermal system insulation in administration building office.

23) Pipe in boiler room with damaged insulation.

24) Damaged boiler room pipe insulation.

25) Boiler room.

26) Example of broken floor tile.

27) Main hall of USAR Center showing typical finish with vinyl floor tiles, paneling and sheetrock walls, drop-in ceiling panels. Note janitor's supply cabinet in hall.

28) Interor of OMS, showing reorganization of materials and equipment recently returned from deployment.

29) View of south end of MEP showing graveled area, heavy equipment, CONEX.

30) Training shed located south of the administration building.

APPENDIX C
BURLINGTON MEMORIAL USAR CENTER
IA 019

TITLE AND LIEN INFORMATION

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

BURLINGTON MEMORIAL USARC
17879 HWY 79
MIDDLETOWN, IOWA

Submitted to:

ENVIRONMENTAL DATA RESOURCES, INC.
C/O
FMSM ENGINEERS, INC.
1901 Nelson Miller Parkway
Louisville, Kentucky 40223
(502) 212-5000

Attention: Robert Newman

Project No. N06-5261

Wednesday, September 06, 2006

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

UNITED STATES OF AMERICA

The following is the current property legal description:

Being that parcel or tract of land, consisting of approximately 11 acres, situated and lying in the Northwest ¼ of Section 36, Township 70 North, Range 4 West in the City of Middletown, Des Moines County, State of Iowa

Assessor's Parcel No: 09-36-300-002

1. HISTORICAL CHAIN OF TITLE

1. DEED:

RECORDED:	05-05-1941
GRANTOR:	Ella C. Utter & Maurice Utter, her husband
GRANTEE:	United States of America
INSTRUMENT:	Bk 175, Pg 357

2. LEASES AND MISCELLANEOUS

1. No institutional controls or engineering controls were found of record.

3. LIMITATION

This report was prepared for the use of Environmental Data Resources, Inc., and FMSM Engineers, Inc., 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.

The EDR Environmental Lien Search Report

BURLINGTON MEMORIAL USARC
17879 HWY 79
MIDDLETOWN, IOWA

Wednesday, September 06, 2006

Project Number: L06-4531

The Standard In Environmental Risk Management Information

440 Wheelers Farm Road
Milford, Connecticut 06460

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802

ENVIRONMENTAL LIEN REPORT

The EDR Environmental Lien Search Report is intended to assist in the search for environmental liens filed in land title records.

TARGET PROPERTY INFORMATION

ADDRESS

BURLINGTON MEMORIAL USARC
17879 HWY 79
MIDDLETOWN, IOWA

DEED INFORMATION

Type of Deed: WD ☐ QCD ☐ Other ☒ DEED

Title is vested in: United States of America

Title received from: Ella C. Utter & Maurice Utter, her husband

Deed Dated: 05-03-1941
Deed Recorded: 05-05-1941
Book: 175
Page: 357

LEGAL DESCRIPTION

Description: Being that parcel or tract of land, consisting of approximately 11 acres, situated and lying in the Northwest ¼ of Section 36, Township 70 North, Range 4 West in the City of Middletown, Des Moines County, State of Iowa

Assessor's Parcel Number: 09-36-300-002

ENVIRONMENTAL LIEN

Environmental Lien: **Found** ☐ **Not Found** ☒

1st Party:

2nd Party:

Recorded:
Book:
Page:

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: **Found** ☐ **Not Found** ☒

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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APPENDIX D
BURLINGTON MEMORIAL USAR CENTER
IA 019

HISTORIC DOCUMENT REVIEW

RCRA SQG REGISTRATION

Cu 12-7-1 11.5 Army Reserve Ctr.
Middletown

5 A.R.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VII
726 MINNESOTA AVENUE
KANSAS CITY, KANSAS 66101

SEP 01 1994

US Army Reserve Center
PO Box 130 RR 1
Middletown, IA 646638

To Whom It May Concern:

Re: US Army Reserve Center
17879 Hwy 79
Middletown, IA 52638
EPA RCRA ID No. IA0000601021

This is to acknowledge that you have filed a Notification of Regulated Waste Activity for the installation located at the address shown above to comply with Section 3010 of the Resource Conservation and Recovery Act (RCRA).

Your Environmental Protection Agency (EPA) RCRA Identification Number for the referenced installation appears above. This EPA RCRA ID Number must be included on all shipping manifests for transporting hazardous wastes; on all Biennial Reports that generators of hazardous waste, and owners and operators of hazardous waste treatment, storage and disposal facilities, must file with EPA; on all applications for a Federal Hazardous Waste Permit; and other hazardous waste management reports and documents required under Subtitle C of RCRA.

We hope the enclosed information will be of use to you. If you have any questions regarding this letter, please call our Iowa RCRA Hazardous Waste Inquiry Helpline, (913) 551-7861 or the Region VII Toll-Free Hot Line, 1-800-223-0425.

Sincerely,

Harriett L. Jones

Harriett L. Jones
Permits Team Leader
IOWA Section, RCRA Branch

Enclosures

cc: Joseph Obr, IDNR - (w/o encl)
Mr. Michael J. Vanlaanen, Ft. Snelling, MN (w/ encl)

RECYCLE

IFR AIR HANDLING SYSTEM

TRANSFER AND ACCEPTANCE OF MILITARY REAL PROPERTY

1. FROM: (Installation/Activity/Service) and Zip code)	2. OPERATING UNIT	3. DISTRICT CODE	4. OPERATING AGENCY	5. DATE	6. JOB NUMBER	7. SERIAL NUMBER	8. CONTRACT NUMBER
EP&S Division, DE ATTN: AFZR-DE-P Fort McCoy, Sparta, WI 54656-5000	Reserve Center			4 Apr 89			DAKF61-88-C-ØØ24

9. TO: (Installation/Activity/Service) and Zip code)	10. OPERATING UNIT	11. DISTRICT CODE	12. OPERATING AGENCY	13. ACCOUNTING NUMBER	14. ACCOUNTABLE OFFICE NUMBER	15. TYPE OF TRANSACTION	16. PROJECT NUMBER
Commander U.S. Army Garrison Fort McCoy, WI 54656-5000	Support Installation					A ☐ NEW CONSTR. ☒ EXISTING FAC. ☒ CAPITAL IMP. ☐ OTHER (Specify) B ☐ BENF/O ☐ PHYSICAL COM. ☐ FINAN. COM. ☐ OTHER (Specify)	WBØØØ1Ø-6P

ITEM NO. 17	CATEGORY CODE 18	FACILITY (Category description) 19	NO. OF UNITS 20	TYPE 21	UNIT OF MEAS. 22	TOTAL QUANTITY 23	COST 24	DRAWING NUMBERS 25	REMARKS 26
		USARC, Burlington, IA Installation No. 19495					* Capital Increase *		
1	17140	Army Reserve Center Bldg No. PBUØØ1 P0001				Contract cost in-house	$13,780.00 1,500.00 553,300.00 ~~568,580.00~~ 568,600.00	47-018-1848 previous bal.	Replaced rifle range air ventilation system by upgrading the heating ventilating unit supply ducts and providing a new supply air fan (8600 CFM) with damper and ductwork. Provided a new supply air plenum and a new exhaust fan (9000 CFM) with BD damper and ductwork in the target area of the range. System complete with electric and mechanical control.

27. STATEMENT OF COMPLETION. The facilities listed hereon are in accordance with maps, drawings, and specifications and change orders approved by the authorized representative of the using agency except for the deficiencies listed on the reverse side.

TRANSFERRED BY (Signature): [signature]
TITLE (Engr./Base Engr./DPWO): Chi EP&S Division, DE
DATE: 6 Apr 89

28. ACCEPTED BY (Signature): [signature]
TITLE (Post Engr./Base Civ. Engr./Navy Rep.): VIN W. WESTENBURG, EN, Director, DE
DATE: 7 Apr 89

29. PROPERTY VOUCHER NUMBER: RPV-94-

DD FORM 1354

REPRODUCED AT GOVERNMENT EXPENSE

IFR CLEANUP

Range Cleanup - IA019, 89th RSC

Burlington Memorial U.S. Army Reserve Center

Middletown, Iowa

Project Report

Prepared for

U.S. Army Corps of Engineers
Louisville District
Environmental Engineering Branch
Contract No. DACA27-99-D-0021 • Delivery Order No. 12

Prepared by

IT CORPORATION
312 Directors Drive
Knoxville, Tennessee 37923-4799

September 2002

INTERNATIONAL TECHNOLOGY CORPORATION

PROJECT REPORT

RANGE CLEANUP – IA019, 89th RSC BURLINGTON MEMORIAL U.S. ARMY RESERVE CENTER MIDDLETOWN, IOWA

Contract No. DACA 27-99-D-0021
Delivery Order No. 0012

Submitted to:

U.S. Army Corps of Engineers
Louisville District
Environmental Engineering Branch

Prepared by:

IT Corporation
312 Directors Drive
Knoxville, Tennessee 37923-4799

September 2002

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Appendix D Hazardous Waste Management Records
Appendix E Non-hazardous Waste Management Records
Appendix F Lead Monitoring Analytical Results
Appendix G Clearance Certification Letter

1.0 Introduction

This document presents the report for cleanup activities at the 89th RSC facility located at 17879 Highway 79, Middletown, Iowa 52638 (Figure 1-1). The cleanup activities were based on the Scope of Work (SOW) provided by the U.S. Army Corps of Engineers (USACE) Louisville District (CELRL) and a site inspection conducted on April 25, 2001.

1.1 Property/Project Identifiers

- Facility ID Number: IA019
- State: Iowa
- Facility Name: Burlington Memorial U.S. Army Reserve Center
- City: Middletown.

1.2 Site Description

1.2.1 Inspection Information

Ms. Heather Mager of IT Corporation inspected the range on April 25, 2001. The five-position range with a manual target retrieval system was located on the ground floor of the facility. No sand was present; however, the bullet trap contained a small amount of lead shot.

The concrete block walls were partially covered with a sound deadening material that was a combination of pegboard and acoustical tile. The ceiling was constructed of corrugated metal and had a partial acoustic tile drop ceiling. The floor was concrete and contained a floor drain.

An asbestos inspection was conducted approximately 10 years ago. According to facility personnel, no asbestos was found.

1.2.2 Pre-Cleanup Characteristics

1.2.2.1 Number of Firing Points

The range had five firing points.

1.2.2.2 Bullet Trap Characteristics

The bullet trap was a steel deflector system without sand.

1.2.2.3 Range Characteristics

The range, which is located on the first floor, was constructed of the following:

- Floor – concrete
- Walls – concrete block covered with sound deadening material consisting of a combination of pegboard and acoustical tile
- Ceiling – corrugated metal with a partial acoustic tile drop ceiling.

Other features included:

- Stored items, including a chair, tables, and a box of paint cans and other chemicals
- Five-position, hardened steel bullet trap
- Hand-crank retrieval system
- Fluorescent lights spaced across the ceiling.

1.2.2.4 Suspect Asbestos Containing Materials (ACM) Inventory

No suspect ACM was known to be present.

1.2.2.5 Air Handling Systems Description

The air handling system at the site consisted of the following:

- Air intake vents located near the firing line
- Air exhaust fan located on the roof of the building, behind the bullet trap.

1.2.2.6 Access Points

Access to the firing range is via an interior entry door near the firing line on the west side and an exterior door near the firing line on the north side.

1.3 Scope of Work

The Scope of Work consisted of the following:

- Cleaning/removing stored items
- Removing sound deadening board and acoustic tile on the walls and ceiling
- Removing the bullet trap and associated lead shot (no sand)
- Cleaning the range

- Cleaning and removing the air handling system
- Collecting clearance samples
- Scabbling and sealing the floor, if necessary, based on clearance data.

The U.S. Army Reserve Command (USARC) recognized safety and health hazards from lead-dust in indoor rifle ranges; however, regulations supporting cleanup remedies dealt primarily with non-industrial standards. After reviewing information relative to cleaning methods and clearance sampling, the value of 200 micrograms per square foot (µg/sf) was derived as a value that would release the indoor ranges as a room that could be reoccupied as a non-lead work area. This value has also been selected by other federal agencies as acceptable.

2.0 Project Team

The project team involved with the cleanup activities included the following organizations and their representatives:

- Project Initiator – USARC
  Ken Coulter – Facility Support Branch, U.S. Army Reserve Engineer

- Client – 89th RSC

- Construction Manager – USACE, Louisville District
  Project Manager – Mark Ringenberg
  Contracting Officer's Representative – David Dierken
  Construction Inspector – Debra Wallin

- Contractor – IT Corporation
  Project Manager – Bill Scoville
  Site Supervisor – Mike Nava
  Site Safety Officer/Construction Quality Control Engineer – Vincent Morales

- Subcontractors
  Range Clearance Inspection and Sampling – Iowa Environmental Services, Inc.
  Hazardous Decontamination Water Disposal Facility – Heritage Environmental, Indianapolis, Indiana
  Non-hazardous Debris Disposal Facility – Des Moines County Waste Disposal Facility, Burlington, Iowa
  Fluorescent Light Tubes – Heritage Environmental, Indianapolis, Indiana
  PCB Light Ballasts – Lighting Resources, Inc., Greenwood, Indiana
  Lead Shot – Alter Scrap Processing, West Burlington, Iowa
  Recycled Metal Facility – Alter Scrap Processing, West Burlington, Iowa.

3.0 Project Activities

This section details the project activities performed at the 89th RSC facility located at 17879 Highway 79, Middletown, Iowa. The cleanup activities consisted of the following:

- Removal and Disposal Activities (Section 3.1)
- Range Cleaning Activities (Section 3.2)
- Range Clearance Inspection and Sampling (Section 3.3)
- Waste Management, Transportation, and Disposal (Section 3.4)
- Site Monitoring (Section 3.5).

The following sections discuss the operational details associated with the implementation of each of these activities.

Range cleanup activities commenced on August 13, 2001, and continued until August 21, 2001. Photographs of cleanup activities are included in Appendix A. Major schedule milestones include:

- Commenced field work on August 13, 2001.
- Completed range cleanup activities on August 21, 2001, and demobilized pending clearance sampling and receipt of clearance sampling results. Conducted clearance sampling on September 13, 2001. The results of clearance samples indicated that the cleanup performance standards had been attained.

In summary, the following work was performed:

- Double-washed and HEPA-vacuumed the range
- Achieved cleanup of range concrete floor surface to 200 µg/sf
- Removed and disposed of three drums (165 gallons) of lead-contaminated water
- Removed and recycled one roll-off box (10,900 pounds) of scrap steel
- Removed and recycled seven pails (weighed with scrap metal) of lead shot
- Removed and disposed of one roll-off box (2.76 tons) of non-hazardous debris
- Removed and recycled one pail (5 gallons) of PCB light ballasts
- Removed and recycled one box (30 pounds) of fluorescent light tubes.

3.1 Removal and Disposal Activities

The range was prepared for lead cleanup activities by completion of the following actions from August 13 through August 15, 2001:

- Wiped and cleaned stored items and moved them to a location identified by facility personnel.
- Removed and cut-up approximately 10,900 pounds of steel from the bullet trap, light protectors, and air exhaust fan motor and placed materials in a scrap steel roll-off box for recycling. All scrap steel was decontaminated using a lead-clean solution.
- Removed and disposed of overhead lights, false wall, soundboard and acoustical tile on ceiling and walls, and other range accessories (e.g., firing line).

3.2 Range Cleaning Activities

On August 15, 2001, when removal activities were completed, the firing range was cleaned. To remove as much dust and remaining debris as possible, the firing range was vacuumed using a HEPA vacuum. All surfaces were vacuumed, starting at the end farthest from the main entrance (the bullet trap area) and moving towards the main exit, beginning with the top of the room and working down. All vacuumed materials and lead shot were containerized and later recycled with the scrap metal.

The walls were washed with a commercial detergent and lead barrier paint was applied to the back and side walls of the bullet trap area.

Floor cleaning activities consisted of the application of the following cleaning solutions:

- Detergent
- D-Lead™, manufactured by Esca-Tech
- HMCS-101, manufactured by Chemical Solutions, International.

These solutions were applied in accordance with the manufacturers' recommendations; floor scrubbers were used to increase the effectiveness of the solutions. After the excess solution was removed with wet-dry vacuums, the floor was rinsed with hot water until the water being vacuumed was visibly clear of dirt and suds. All decontamination water was containerized in 55-

gallon drums. Copies of the Material Safety Data Sheets for the cleaning solutions are provided in Appendix B.

3.3 Range Clearance Inspection and Sampling

Upon completion of cleaning activities and prior to clearance sampling, a visual inspection was conducted of the areas potentially affected by the lead hazard control project. The inspection was conducted on September 13, 2001, by Glenn Soyer, Certified Lead Inspector/Lead Assessor (License No. IA-97-0041) of Iowa Environmental Services, Inc., Des Moines, Iowa. The purpose of the inspection was to determine whether the work was completed as required on all interior surfaces treated, as specified in the original project scope and as indicated in the project report, and whether visible settled dust or debris was present.

The visual examination included a surface-by-surface examination to determine if known or suspected lead-dust surfaces were still present in the range. Lead hazard removal verification was documented on a Visual Clearance Form (Appendix C). All interim controls were verified visually to confirm stabilization of all lead dust surfaces, including any friction or impact surfaces treated during the project.

The visual examination verified the absence of visual dust in all rooms and on all surfaces treated. The absence of all waste and debris was also verified.

When acceptable visual examination results were received, clearance dust sampling commenced. Clearance dust sampling consisted of collecting single-surface dust wipe samples and analyzing them for lead content to determine whether lead concentrations exceeded clearance criteria (the clearance standard for this project is 200 µg/sf).

A total of six dust wipe samples were collected from the following locations:

- Five dust wipe samples from:
  - Bullet trap (001DT)
  - Mid range (002DT)
  - Firing line A (004DT)
  - Firing line B (005DT)
  - Outside range (006DT)

- One field blank sample (003DT)

Figure 3-1 shows the locations where clearance samples were collected. Sampling procedures are discussed in Section 4.1; analytical results are presented on Table 4-1. The clearance inspection and dust wipe sample collection forms and the analytical report are included in Appendix C.

3.4 Waste Management, Transportation, and Disposal

Hazardous wastes generated during cleanup activities included:

- Three drums (165 gallons) of lead-contaminated decontamination water were transported by Heritage Transport and taken to Heritage Environmental Services, Indianapolis, Indiana, on November 26, 2001, for treatment.

Table 3-1 summarizes this hazardous waste shipment. Copies of the waste profile, Land Disposal Restriction (LDR) notification, and hazardous waste manifest are provided in Appendix D.

Non-hazardous wastes generated during project activities and subsequently disposed of includes:

- Scrap metal from the bullet trap, overhead light protectors, and air exhaust fan motor – one roll-off box (10,900 pounds) of scrap metal was transported by Alter Scrap Processing and taken to its facility in West Burlington, Iowa on August 21, 2001, for recycling.

- Lead shot – seven pails (weighed with scrap metal) of lead shot were transported by Alter Scrap Processing and taken to its facility in West Burlington, Iowa, on August 21, 2001, for recycling.

- Demolition debris, including acoustical tile and soundproofing board – one roll-off box (2.76 tons) of debris was transported by Waste Management, and disposed of at Des Moines County Waste Disposal Facility, Burlington, Iowa, on August 22, 2001.

- Used PCB light ballasts – one pail (5 gallons) of PCB light ballasts was transported by Heritage Transport and taken to Lighting Resources, Inc., Greenwood, Indiana, on November 26, 2001, for recycling.

- Used fluorescent light tubes – one box (30 pounds) of tubes was transported by Heritage Transport and taken to Heritage Environmental Services, Indianapolis, Indiana, on November 26, 2001, for recycling.

Table 3-2 summarizes these non-hazardous waste shipments. Copies of the non-hazardous waste manifests are provided in Appendix E.

3.5 Site Monitoring

Personal and area air monitoring for lead was conducted during lead removal operations. Information on airborne lead sampling and analytical methods is presented in Section 4.2 of this report. A copy of the site monitoring data is provided in Appendix F.

4.0 Sample Collection and Analysis

4.1 Lead Wipe Sampling Summary

To confirm that the lead contamination had been removed from the floor of the range, on September 13, 2001, personnel from Iowa Environmental Services, Inc., collected the samples described in Section 3.3, following procedures presented in the project Work Plan.

Horizontal surfaces were sampled to determine total lead content in the settled dust. Lead-in-dust wipe samples were generally secured over a 1-sf area following an "S" pattern from side-to-side, folded in half, and wiped over the same area at a 90° angle to the first "S" pattern (top-to-bottom). Latex gloves were changed between sampling episodes. Samples were then returned to the vials, sealed, and labeled for transport to the laboratory.

A field blank sample was also prepared and submitted for analysis. The field blank was prepared by removing and replacing the cap of the vial in the sampling area.

All lead-in-dust wipe samples were acid digested in accordance with U.S. Environmental Protection Agency (USEPA) Method SW-846 7420. Results of the wipe sample analyses are summarized in Table 4-1 and are detailed in the laboratory analytical report provided in Appendix C. Wipe sample locations are shown on Figure 3-1. Copies of the Visual Clearance Form and the Dust Sampling Form are also provided in Appendix C.

The analytical results in Table 4-1 may be summarized as follows:

- After the cleaning, the range floor had lead levels from 48.5 µg/sf (firing line A) to 93.5 µg/sf (bullet trap). The floor outside the entrance door had a lead level of 10.8 µg/sf. These results indicated that the range floor lead levels were below the clearance criteria of 200 µg/sf.

Thus, based on these results, the clearance criteria of 200 µg/sf has been attained.

Via a letter dated September 18, 2001, the facility was notified that the clearance levels were attained and that the range could be reoccupied. A copy of the clearance certification letter is provided in Appendix G.

4.2 Air Monitoring Sampling Summary

IT Corporation performed airborne lead monitoring. Monitoring was conducted on August 14 and August 15, 2001.

Air monitoring consisted of taking background, personal, excursion, and perimeter samples throughout this project to comply with Occupational Safety and Health Administration (OSHA) and USEPA rules and regulations during lead clean-up.

All air samples were prepared and analyzed in accordance with NIOSH Method 7300 using a Thermo Jarrell Ash 61E (ICP) purged spectrometer. A copy of the air monitoring data is provided in Appendix F.

5.0 Conclusions

In total, all the range structures associated with the indoor range at the Burlington Memorial U.S. Army Reserve Center, Middletown, Iowa, were successfully removed, characterized for disposal, and properly disposed of as indicated below:

- Hazardous, lead-contaminated waste – three drums (165 gallons) of water
- Recycled metal – one roll-off box (10,900 pounds) of scrap metal
- Lead shot – seven pails (weighed with scrap metal) of lead shot
- Non-hazardous waste – one roll-off box (2.76 tons) of debris
- PCB light ballasts – one pail (5 gallons) of ballasts
- Fluorescent light tubes – one box (30 pounds) of tubes.

All removal activities were performed as specified in the project Scope of Work and Work Plan, using direct Health and Safety support involving personal and area air monitoring.

Clearance wipe samples document that residual lead levels in the range concrete are below the clearance level of 200 µg/sf. At the completion of site operations for this activity, all planned objectives were met. Based on a review of the clearance wipe sample data, IT concludes that no further range cleanup is necessary for the Burlington Memorial facility. IT further certifies that the range cleaning activities have successfully attained the project clearance objectives and the range is approved for reoccupancy. Range clearance procedures consisted of the following:

- A surface-by-surface visual examination to verify that:
  - The lead hazard control work was completed as required
  - No known or suspected lead dust surfaces are still present in the range at levels that exceed the project clearance level of 200 µg/sf.

- Clearance sampling consisting of collecting wipe samples from the floor surfaces and analyzing the samples for lead.

Please note that although the range has been cleaned to below the project clearance levels, small amounts of lead dust may be present in the range. The OSHA Construction Industry Standard for Lead (29 CFR 1926.62) should be reviewed before any remodeling activities that may cause a release of dust on wall and floor surfaces are undertaken. The OSHA standard requires certain controls to reduce or maintain worker exposures less than the Permissible Exposure Limit (PEL) of 50 $\mu g/m^3$ of lead. The employer must protect the worker from lead.

TABLES

Table 3-1
Hazardous Waste Disposal Log
Burlington Memorial U.S. Army Reserve Center, IA019
Middletown, IA

Waste Type	Code	Shipment Date	Volume/ Weight	Transporter	TSD Facility	Manifest	Doc. #	Disposal Method
Decontamination Water	D008	11/26/01	3 Drums (165 gal)	Heritage Transport, LLC	Heritage Environmental Services, Indianapolis, IN	HER-011594	11594	Treatment

Table 3-2
Non-Hazardous Waste Disposal Log
Burlington Memorial U.S. Army Reserve Center, IA019
Middletown, IA

Waste Type	Shipment Date	Volume/ Weight	Transporter	TSD Facility	Documentation	Disposal Method
Scrap metal	8/21/01	1 Rolloff (10,900 lbs)	Alter Scrap Processing	Alter Scrap Processing, West Burlington, IA	Weight ticket 16950	Recycle
Lead shot	8/21/01	7 Pails (wgt included w/ scrap metal)	Alter Scrap Processing	Alter Scrap Processing, West Burlington, IA	Weight ticket 16950	Recycle
Demolition debris including acoustical tile and sound-proofing board	8/22/01	1 Rolloff (2.76 tons)	Waste Management	Des Moines County Waste Disposal Facility, Burlington, IA	Ticket 58623	Landfill
Light ballasts	11/26/01	1 Pail (5 gal)	Heritage Transport, LLC	Lighting Resources, Inc., Greenwood, IN	HER-011595	Recycle
Fluorescent light tubes	11/26/01	1 box (30 lbs)	Heritage Transport, LLC	Heritage Environmental Services, Indianapolis, IN	HER-011594	Recycle

Table 4-1
Lead Wipe Clearance Sample Results (µg/sf)[1]
Burlington Memorial U.S. Army Reserve Center, IA019
Middletown, IA

Site/Date Code	**89IAMID01SEP13[2]**	
Sampler	**Iowa Environmental Services, Inc.**	
Location	**Sample ID**	**Result[3]**
Bullet trap	001DT	**93.5**
Mid-range	002DT	**92.5**
Blank	003DT	**<5.0**
Firing line A	004DT	**48.5**
Firing line B	005DT	**67.8**
Outside range	006DT	**10.8**

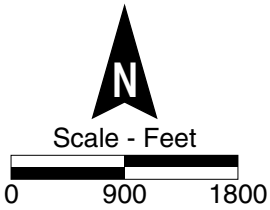
(1) = Results expressed in micrograms per square foot (µg/sf) of surface area, except Field Blank and Spike Sample, which are µg/wipe.

(2) = The sample IDs were misslabeled on the laboratory results summary form as 98IAMID01SEP13.

(3) = Results (other than blanks or spikes) in **bold** type are below the clearance level of 200 µg/sf .

FIGURES

Source Map: MapQuest.com, Inc.



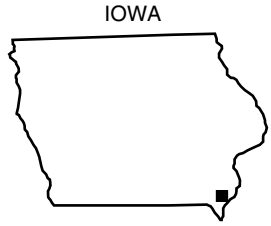


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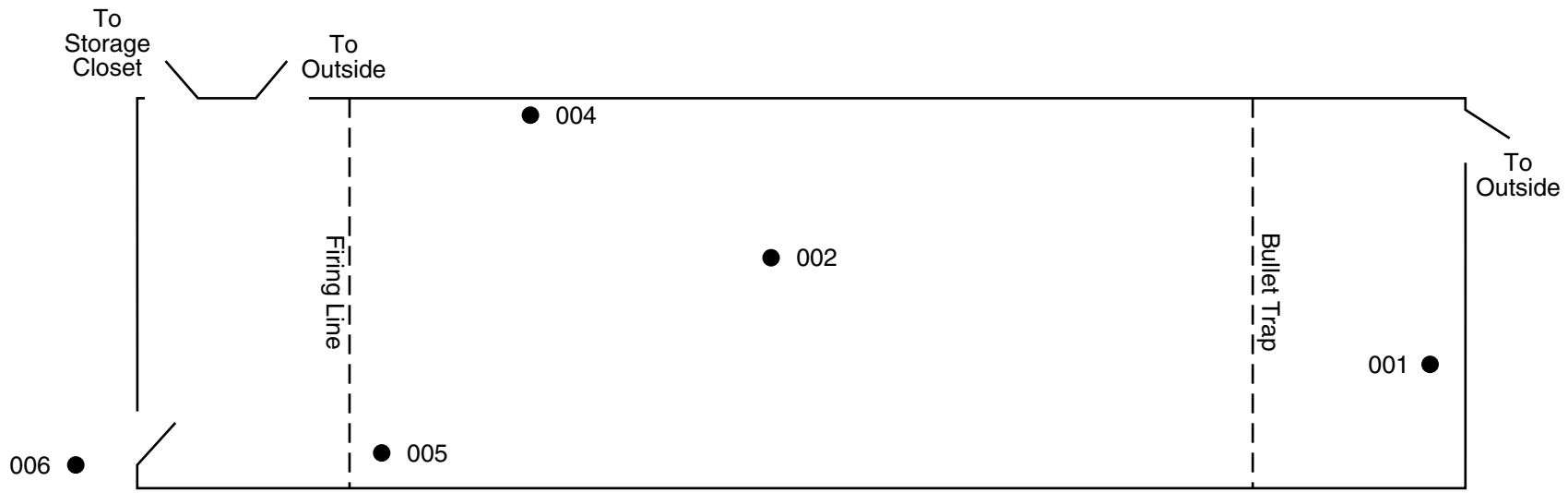
Figure 1-1.
Site Location Map.
Middletown, IA (IA019) Reserve Center.

DRAWING NO. K-807744-0301-1/02-w

DRAWING BY KMS 1/17/02

CHECKED BY

APPROVED BY



Legend

● Sample Date 13 Sept 01

Note: Sample 003 was a blank.

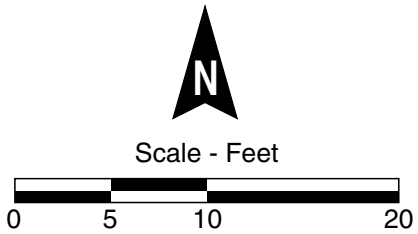


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Figure 3-1.
Clearance Wipe Sample Locations.
Middletown, IA (IA019) Reserve Center.

DRAWING BY	KMS 2/5/02	CHECKED BY / APPROVED BY			DRAWING NO. K-807744-0301-2/02-w

APPENDIX A
Photographs

Middletown (IA019) Photo No. 1 - View of firing line, 5 pt range.

Middletown (IA019) Photo No. 2 - Range overview, looking toward bullet trap.

Middletown (IA019) Photo No. 3 - Closer view of the bullet trap area.

Middletown (IA019) Photo No. 4 - View of roof-mounted exhaust fan.

Middletown (IA019) Photo No. 5 - View of paint cans and other chemicals in bullet trap area.

Middletown (IA019) Photo No. 6 - View of bullet trap area during removal activities.

Middletown (IA019)
Photo No. 7 - View of drop ceiling during removal activities.

Middletown (IA019) Photo No. 8 - View of removal activities.

Middletown (IA019) Photo No. 9 - View of firing line area after cleanup activities.

Middletown (IA019) Photo No. 10 - View of bullet trap area after cleanup and lead barrier paint application.

APPENDIX B
Material Safety Data Sheets

MATERIAL SAFETY DATA SHEET

Product Name or Number(as it appears on the label)
Spic and Span

Section I - Product Identification

Manufacturer's Name
Procter & Gamble

Address(No, Street,City,State & Zip Code)
Foodservice & Lodging Products Division
Winton Hill Technical Center
6071 Center Hill Road
Cincinnati, OH 45224

Date
03/01/88

Emergency Telephone No.
1-513-562-1100

Telephone No. for Information

Trade Name: Institutional Pack (Spic &Span) Brand code 08056
Material Safety Data Sheet ID #457010

Section II - Hazardous Ingredients

Hazardous Components (Specific Chemical Identity, Common Name)	OSHA Pel	ACGIH Tlv	Other Limits	% Optional
Sodium carbonate, anionic surfactant, sodium silicate, perfume, sodium sulfate and colorants.				

This mixture when tested as a whole, is considered an eye irritant within the meaning of the OSHA hazard communication standard.

Section III - Physical Data

Boiling Point _____F ____C
N/A

Vapor Pressure - N/A
@___F ____C ___mm Hg____psi

Vapor Density (Air=1)
N/A

Solubility in Water
Completely

Specific Gravity (H2O=1)
0.4 g/cc (Bulk density)

% Volatile by Volume
1%

Evaporation Rate (but. ace.=1)
N/A

Appearance and Odor
Green Powder/Pine Odor

Section IV - Fire & Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
N/A		N/A	N/A

Extinguishing Media
CO2,Water,Dry Chemical

Special Fire Fighting Procedures
None required.

Unusual Fire And Explosion Hazards
None known.

Section V - Reactivity Data

Stability
Unstable
Stable X

Conditions to Avoid
None known.

Incompatability (Materials to Avoid)
None known.

Hazardous Decomposition of Byproduct
None known.

Hazardous Polymerization
Will not Occur

Conditions to Avoid
None known.

Section VI - Health Hazard Data

Route(s) of Entry Inhalation_ _ Skin_x_ Ingestion_x_ Other(Specify)Eyes

Health Hazards (Acute and Chronic)
Mild Skin, Eye and Mucous Membrane Irritant

Carcinogenicity Ntp IARC Monographs OSHA Regulated
None listed.

Signs and Symptoms of Exposure
May cause eye irritation. Prolonged skin contact may result in transient superficial effects similar to those produced by mild toilet soaps and detergents. Oral ingestion may result in mild gastrointestinal irritation with nausea, vomiting, and diarrhea.

Medical Conditions Aggravated by Exposure
Use on irritated or extremely dry skin may aggravate the existing condition.

Emergency and First Aid Procedures
IN CASE OF ACCIDENTAL EYE CONTACT: Flush thoroughly with water for 15 minutes. FOR ORAL INGESTION: Dilute with fluids and treat symptomatically FOR SKIN IRRITATION: Rinse exposed area and discontinue use.

Section VII - Precautions for Safety Handling and Use

Steps to be Taken in Case Material is Released or Spilled
Sweep up and dispose.

Waste Disposal Method
Large quantity: Dispose at approved landfill.
Small quantity: Flush down sewer drain with excess water or dispose of as dry scrap. Disposal is to be in compliance with all regulations.

Precautions to be Taken in Handling and Storing
Avoid moisture to prevent caking.

Other Precautions
Product package states: DANGER: In case of eye contact, flush with water for 15 minutes. Get prompt medical attention. KEEP OUT OF THE REACH OF CHILDREN.

Section VIII - Control Measures

Respiratory Protection (Specify Type)
None required for normal use. For bulk banding or other dusty conditions, use respiratory protection approved by NIOSH for dust.

Ventilation Local Exhaust - None required for normal use. Special - None

Mechanical (General) - Acceptable Other - None

Protective Gloves Eye Protection

None required. None required with normal use.

Other Protective Clothing or Equipment None Required

N.A. - Not Applicable N.K. - Not Known

The Submission of this MSDS may be required by law, but this is not an assertion the the substance is hazardous when used in accordance with proper safety practices and normal handling procedures. Data supplied is for use only in connection with occupational safety and health.

Material Safety Data Sheet

Issue Date: March 20, 1991; Revisions: Rev 1: 01/01/94; Rev 2: 05/01/97; Rev 3: 06/09/97, Rev 4: 01/28/98: Rev 5: 09/22/00; Rev 6: 01/29/02

Product Name: D-Lead® Equipment Cleaner

Product Code #: 3102ES

Product Information: (414) 962-5323
Manufacturer: ESCA Tech, Inc.
3747 North Booth Street
Milwaukee, WI 53212
Fax: (414) 962-7003

Transportation Emergency Phone:
1-800-535-5053 Info Trac
(24 hours, during transportation only)

email: eti@execpc.com

Section 1: Material Identification

Proper Shipping Name:	(49 CFR 172.101) Compound, Cleaning Liquid, N.O.S.	
D.O.T. Hazard Name:	(49 CFR 172.101) None	
D.O.T. ID No.:	Same as above	
D.O.T. Hazard Class:	Same as above	
RCRA Hazard Class:	(40 CFR 261) (As Received) None	
E.P.A. Priority Pollutants:	(40 CFR 401.15) None	
Generic Description:	Liquid, concentrated alkaline detergent	
NFPA: None	Health (NFPA): N.A.	Flammability (NFPA): N.A.
Reactivity (NFPA): N.A.	CAS No.: Mixture	OSHA Subpart Z. No
OSHA 1910.119: No	SARA Title III, Sec.312; 313; 372: Yes	TPQ: No
Reportable Quantity: None	State Lists: None	Proposition 65: No
Reproductive Hazard: No	Carcinogen: No	WHMIS (Canada): No
Extremely Hazardous Substances List : No		

Section 2: Ingredients and Hazards

Hazardous Ingredients

Ingredient CAS Number	Max %	SARA applies			Air contaminant levels			Skin Agent
	w/w	312	313	372	TWA/TLV (ppm)	STIEL (ppm)	CEILING (ppm)	
Ethylene Glycol Monobutyl Ether (CAS#: 111-76-2)	4.8	Y	Y	Y	25	None	None	OSHA - Y ACGIH - Y

Other Recommended Limits: None ♦ Contains: Nonionic surfactants, complexing alkali and builders. Does not contain EDTA, chelates, phosphates, stearates, solvents, free alkalies, abrasives, citrates, tartrates, or acetates. Contains 2.0 % silicates. All ingredients are listed with EPA TSCA Inventory of Chemical Substances.

Section 3: Physical Data

Boiling Point:	208° F
Vapor Pressure:	17mm Hg.
Vapor Density (Air = 1):	>1, same as water
Melting Point:	28° F, -2° C
Specific Gravity (H_2O = 1):	1.033 (8.60 lbs./gal.)
Evaporation Rate (Butyl Acetate = 1):	0.36, (Slower)
Solubility in Water:	Infinite
Appearance and Odor:	Purple liquid, moderately viscous, characteristic odor
pH:	11.5 to 11.8 - undiluted; 10.5 at a 4:1 dilution with water

Section 4: Fire and Explosion Hazard Data

Flash Point (method used): NA ◆ Flammable Limits: Material will not burn ◆ LEL: NA ◆ UEL: NA ◆ Extinguishing Media: Material is not flammable ◆ Special Fire Procedures: None ◆ Unusual Hazards: None Material will not support combustion.

Section 5: Reactivity Data

Stable/Unstable: Stable ◆ Conditions to Avoid: Do not mix with other chemicals ◆ Hazardous Decomposition/Byproducts: Thermal decomposition may produce carbon monoxide ◆ Hazardous Polymerization: Will not occur ◆ Incompatibility: Strong oxidizing agent such as bleach. Should not be mixed with other chemicals.

Section 6: Health Hazard Data

Routes of entry:	Ingestion possible. No inhalation normally. Eye contact possible if splashed.
Acute/Chronic Health Effects:	**INHALATION:** Does not generate vapors at normal temperatures of use. **SKIN:** May defat the skin. **INGESTION:** Nausea, dizziness, fatigue.
Carcinogenicity:	None known. NTP? No IARC Monographs? No OSHA Regulated? No
Signs/Symptoms of Exposure:	SKIN: De-fatting of the skin. EYES: Burning. ORAL: Nausea, dizziness, fatigue.
Emergency and First Aid:	SKIN: Remove from source. Rinse with water. Treat as a caustic burn. EYES: Flush thoroughly with cool water for 15 minutes, lifting lids. Get medical attention. Treat as a caustic burn. INHALATION: Remove to fresh air. ORAL: Do not induce vomiting, keep quiet, get medical attention immediately. Treat as alkaline detergent.
Medical Condition Generally Aggravated by Exposure:	None known.

Section 7: Spill, Leak, and Disposal Procedures

Steps to be Taken in Case Material is Released or Spilled: Stop leak at source. Small spills can be mopped up, and floor rinsed with water. For large spills, stop leak at source and absorb onto inert medium for disposal. Collect in an approved container. Material is an alkaline detergent, do not release to streams, lakes, storm sewer, etc. ◆ Waste Disposal Method: According to all local, state and federal regulations.

Section 8: Special Protection Information

Respiratory Protection: None required ◆ Ventilation: Not needed ◆ Protective Gloves: Neoprene, nitrile, natural rubber or PVC ◆ Eye Protection: Chemical safety goggles or faceshield ◆ Other Protective Clothing or Equipment: Eye wash and safety shower, impervious clothing ◆ Work/Hygienic Practices: Wash with soap and water. Discard contaminated clothing according to state or EPA regulations.

Section 9: Special Precautions and Comments

Storage Requirements: Store above 32°F. Keep from freezing. If frozen, product should thaw without adverse effects. Product may appear cloudy. Keep out of extreme heat. Generally stored at temperatures between 40° and 90°F, out of direct sunlight. Heat buildup will cause product to cloud and separate irreversibly.

Comments: Product has a shelf life of 9-12 months. Keep containers tightly closed when not in use. Keep out of reach of children. For professional use only. After use, solution will contain dissolved and suspended heavy metals along with fats, oils and greases. Discharge waste water in accordance with all applicable local, state and federal regulations and in accordance with all water discharge permits.

ESCA Tech, Inc. Disclaimer: "The information and recommendations presented herein are based on sources believed to be reliable as of the date hereof. ESCA Tech makes no representation as to the completeness of accuracy thereof. It is the user's responsibility to determine the product's suitability for its intended use, the product's safe use, and the product's proper disposal. No representations or warranties not expressly set forth herein are made hereunder, whether express or implied by operation of law or otherwise, including, but not limited to any implied warranties of MERCHANTABILITY OR FITNESS. ESCA Tech neither assumes or authorizes any other person to assume for it, any other or ADDITIONAL LIABILITY OR RESPONSIBILITY resulting from the use of, or reliance upon, this information."

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ESCA Tech, Inc. ◆ 3747 North Booth Street ◆ Milwaukee, WI 53212 U.S.A.
Phone (414) 962-5323 ◆ Fax (414) 962-7003

Heavy Metal Cleaning Solution (HMCS-101)

(Catalog # RP-104)

General Information - Application Information - MSDS

I Product: HEAVY METAL CLEANING SOLUTION (HMCS-101)	
Description: Clear Liquid Manufacturer: **Chemical Solutions Int'l. Corp.** **P.O. Box 891185** **Houston, TX 77289-1185**	Date Prepared: July 2000. Emergency Telephone No. **(281) 992-3031** **(800) 424-4804** E-mail: jimarnold@chemicalsolutionsintl.com Home Page: www.chemicalsolutionsintl.com

II Health Hazard Data:

Health Hazards (Acute & Chronic)
EYES: May cause discomfort.
SKIN: Concentrate will dry out and chap sensitive skin as would detergent.
INHALATION of fumes may upset stomach.

SIGNS & SYMPTOMS OF EXPOSURE:

EYES:Redness, tearing, blurred vision.
SKIN: Dryness, redness, chapping.
INGESTION may cause vomiting.

FIRST AID: EYES: Flush 15 minutes with water.
SKIN: Wash with soap and water.
INHALATION: Move to fresh air. Apply artificial respiration if breathing has stopped.
INGESTION: Do not induce vomiting. If any irritation persists, seek medical atttention.

III Precautions for Safe Handling & Use:

If material is spilled, remove leaking package to safe area. Flush with water.
Disposal: Any approved method for dilute cleaner.
Surfactants are highly biodegradable.

IV Physical Data:

pH.....10

V Hazardous Ingredients:

Hg Cleaning Solutions is a proprietary formulation which contains small amounts of minerals and organics.
This product should be handled accordingly.
Complies with OSHA 29 CFR XVIII-1910.1200 Section (I) "Trade Secrets"
Contains no hazardous components under current OSHA
definitions.

VI Special Protection & Precautions:

Hygienic Practices: Wash after each shift.
Remove and wash contaminated clothing before re-used.
Work Practices: Wear goggles or face shield.
Rubber gloves.
Other Protective Clothing: Long sleeved shirt buttoned at neck is desirable. Rubber boots.

VII Reactivity Data:

Stable under normal use and storage conditions.
Incompatible with strong oxidizing agents.
Hazardous decomposition or byproducts - oxides of carbon.

VIII Fire & Explosion Data:

Flash Point/Method Used..... None/COC.

IX Control Measures:

Solubility in water.....100% Boiling Point..... 212°F Vapor Pressure/Density..... Same as water Evaporation Rate (Butyl Acetate=1).....<1 Appearance & Odor: Clear liquid with medium viscosity and synthetic cleaner odor. Specific Gravity..... 1.06	Respiratory Protection: Not Necessary. Ventilation: Local Exhaust/Desirable. Mechanical/Helpful in congested areas. (Complies with OSHA 174, Sep. 1985.)

HMIS CODE: Health 1 Flammability 0 Reactivity 0 Personal Protection B

Back to Main Catalog

APPENDIX C
Range Clearance Inspection and Sampling Report, Iowa Environmental Services, Inc.

Inspection and Sampling Report

United States Army Reserve Center
Firing Range

Middletown, IA

Conducted by:
Iowa Environmental Services, Inc.
4801 Grand Avenue
Des Moines, Iowa 50312

Description

The firing range at the Middletown USARC was cleaned by IT Corporation to control lead hazards. A lead load on the floor of 200 ug/ft^2 was set as the criteria to determine if the cleaning was successful.

A visual examination of the facility was conducted and documented after which six samples were collected and analyzed for lead content. Results of these two tasks can be reviewed in the attached data forms. (Fig. 1 and Fig. 2)

The six samples were collected as follows; One sample was collected from the floor of each of the four firing lanes. One sample was collected from the floor within 10 feet of , but outside the firing range room. One sample was collected as a blank.

Sample locations can be reviewed on the attached drawing.

Samples were collected following ASTM's Standard Practice for Field Collection of Settled Dust Samples Using Wipe Sampling Methods for Lead Determination by Atomic Spectrometry Techniques.

Sample results can be reviewed on the attached laboratory report.

Inspector/Sample Collection

Glenn Soyer M.S., CIH #5217
Insp. # IA-97-0041
Tele: 515-279-8042

Figure 1
Visual Clearance Form

Installation Middletown Army POC Richard Hester
Building Address or Location 17879 Hwy. 79
Range Unit No. 019

Date Cleanup Completed 8-21-01 Time Cleanup Completed _____ Date and Time Inspection Initiated 9-13-01 2:50 PM

Lead Hazard Control Contractor name IT Corporation
Address 11499 Chester Road
Cincinnati, OH 45246
Telephone No. 513-782-4964

Location within Range	Work Completed? (yes/no)	Visible Dust Seen? (yes/no)	More Work Required? (yes/no)	Comments
Firing Line Floor	yes	no	no	
Floor between Firing Line and Bullet Trap	yes	no	no	
Bullet Trap Floor	yes	no	no	
Ceiling	yes	no	no	
Sidewalls	yes	no	no	
Front Wall	yes	no	no	
Back Wall	yes	no	no	
Ventilation System	yes	no	no	

Does range venting discharge to soil? ____ Yes X No
Was contaminated soil removed? ____ Yes ____ No
Is additional soil treatment required? ____ Yes ____ No

Other Comments: _____

Name of Clearance Examiner (print) Glenn Soyer M.S. CIH
License Number(s) IA-97-0041
(EPA, State, or both, if applicable)
Signature: Glenn Soyer Date 9-13-01

Figure 2
Dust Sampling Form

Installation Middletown Army POC Richard Hester
Building Address or Location 17879 Hwy. 79
Range Unit No. 019

Date Cleanup Completed 8-31-01 Time Cleanup Completed _____ Date and Time Sampling Initiated 9-13-01 3:30PM

Clearance Categories:

1. Interior treatment without containment
2. Interior treatment with containment
3. Exterior work (including soil)
4. Routine Maintenance

Sample No.	Sample Location	Clearance Category No.	Sample Area Dimensions	Sample Area (ft^2)	Lab Results ($\mu g/ft^2$)	Pass or Fail
001	Bullet Trap	~~2~~ 1 *	12" x 12"	1	93.5	P
002	Mid Range	~~2~~ 1	12" x 12"	1	92.5	P
003	Blank	~~2~~ 1			<5.0	P
004	Firing Line A	~~2~~ 1	12" x 12"	1	48.5	P
005	Firing Line B	~~2~~ 1	12" x 12"	1	67.8	P
006	Outside Range	~~3~~ 1	12" x 12"	1	10.8	P

Comments
* Corrected - No containment (paint) needed
[illegible] 2/6/02

Date of Sample Collection 9-13-01 Date Shipped to Lab 9-13-01
(Attach a Copy of the Chain of Custody to this Form)

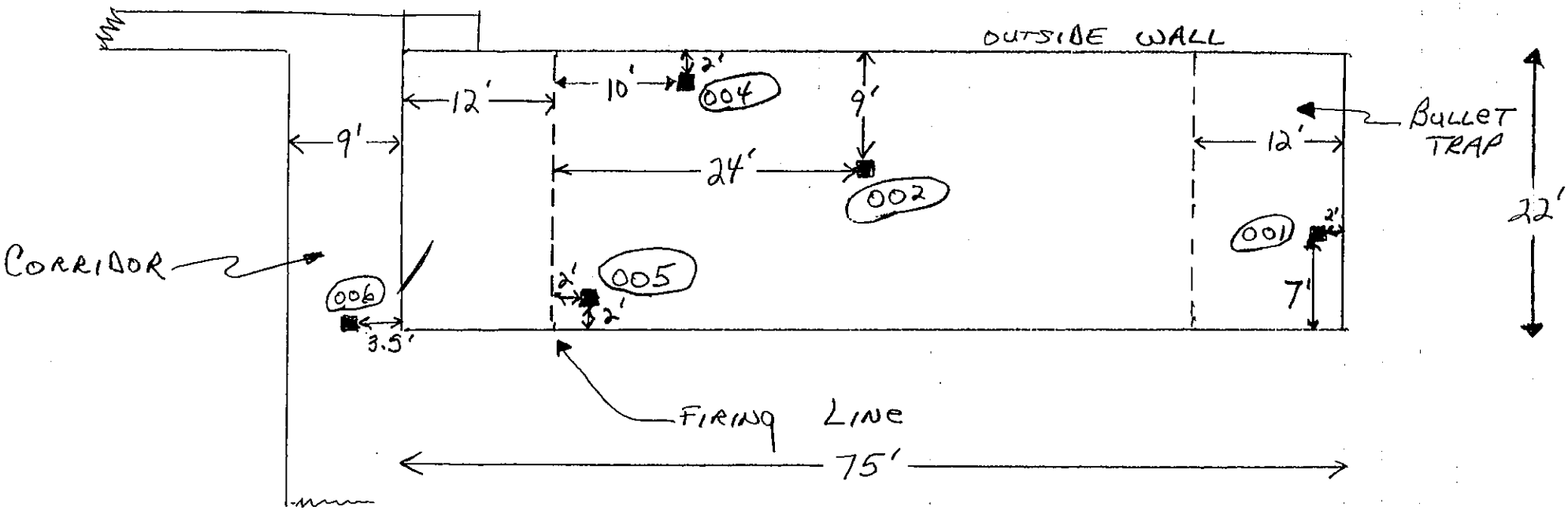
Name of Lab and Phone No. EMSL Analytical Inc. 317-570-5892
Name of Clearance Examiner (print) Glenn Soyer M.S., CIH
License Number(s) IA-97-0041
(EPA, State, or both, if applicable)
Signature: Glenn Soyer Date 9-24-01

N

MIDDLETOWN, IOWA

Rifle Range - 4 Lines

003 = BLANK



1 SQUARE = 3 ft

LEAD (Pb) IN WIPES BY FLAME ATOMIC ABSORPBTION

METHOD: SW 846-7420

Iowa Environmental Services, Inc.
4801 Grand Avenue
Des Moines, IA 50312

Report Date: September 17, 2001
Samples Received: September 14, 2001
Project Number: Middletown USARC
Reference Number: IN014962

Sample ID	Digested Volume	AA Reading (mg/L)	Concentration (Micrograms/Sq. Ft.)
98IAMIDOISEP13001	25	3.74	**93.5**
98IAMIDOISEP13002	25	3.70	**92.5**
98IAMIDOISEP13003	25	< 0.2	**< 5.0**
98IAMIDOISEP13004	25	1.94	**48.5**
98IAMIDOISEP13005	25	2.71	**67.8**
98IAMIDOISEP13006	25	0.43	**10.8**

NOTE: EMSL's RL for Pb in dust wipes is 20 µg/wipe

HUD Guidelines for lead in dust:

Floors:	**40 micrograms/square foot**
Window Sills:	**250 micrograms/square foot**
Window Wells:	**400 micrograms/square foot**

These samples are reported in micrograms/sq. ft. with the assumption that the wipes final area was 1 sq. ft

Nikki Brown
Analyst

Richard K. Harding
Laboratory Manager

IOWA ENVIRONMENTAL SERVICES, INC.

4801 Grand Avenue, Des Moines, Iowa 50322 Ph: 515-279-8042 Fax: 515-279-1853

IND14962

CHAIN OF CUSTODY RECORD

Client Name: IA ENV SVC
Address: 4801 GRAND AVE
DES MOINES IA
50312
PH #: 515-279-8042
FAX #: 515-279-1853

Project: Middletown USARC
Date Sampled: 9-13-01
Date Submitted: 9-13-01
P.O. #

Collection Date	Sample #	Parameters	Comments/Other Information
9-13-01	89IAMID	01SEP13001	Pb Wipe
"		002	"
"		003	"
"		004	"
"		005	"
"		006	"
			FAX TO GLENN
			SOYER
			24 Hour Turnaround

Relinquished By: Glenn Soyer Date: 9-13-01
Received By: [illegible] Date: 9-14-01 1020AM
Relinquished By: Date:
Received By: Date:

APPENDIX D
Hazardous Waste Management Records

IT Corporation
11499 Chester Road
Cincinnati, OH 45246-4012
Tel. 513.782.4700
Fax. 513.782.4807

A Member of The IT Group

To: Heritage Environmental Services, LLC

CC: File PN826183-03991801

From: Anthony W. Ashcraft

Date: 08/30/01

Re: Profiles for the USARC Indoor Firing Ranges

Please let this serve as authorization for Heritage personnel to copy the profiles for all indoor firing range projects. It is understood that the waste streams for this project are constant and consistent from one range to the next. If IT Corporation generates any additional waste stream(s) IT Corporation will notify Heritage and complete a separate profile to cover the additional waste stream(s).

Anthony W. Ashcraft
8/30/01

HERITAGE ENVIRONMENTAL SERVICES, LLC
WASTESTREAM SURVEY FORM
(877)436-8778
Heritage Form HERWS01

Heritage Use Only	
Quote #	Approval Fee
Ws#	P.O.
Sample #	Heritage Contact

Preferred Service Location:
Indianapolis, IN ☒ Charlotte, NC ☐ Kansas City, MO ☐ Lemont, IL ☐ Coolidge, AZ ☐ Williston, VT ☐ Louisville, KY ☐
Heritage Hazardous Landfill (Roachdale, IN) ☐ Heritage Non-Hazardous Landfill (Roachdale, IN) ☐ Toledo, OH ☐

1. GENERATOR INFORMATION

Heritage Generator Number (if known)	
Generator Name	USARC
Address	
City, State, Zip	
Tech. Contact	
Phone	Fax
E-mail	
US EPA ID	
State ID Numbers	
Generator Status	

LQG ☐ SQG ☐ CESQG ☒ Non-hazardous ☐

2. BILLING INFORMATION

Quote to: Generator ☐ Customer ☒ Other ☐

Customer	IT Corporation		
Address	312 Directors Drive		
City, State, Zip	Knoxville, TN 37923-4799		
Contact Name	Tony Ashcraft		
Phone	513-782-4557	Fax	513-782-4807
E-mail			

3. MANIFEST MAIL ADDRESS *Generator* ☐ *Billing* ☒

Contact Name	Tony Ashcraft
Company	IT Corporation
Address	11499 Chester Road
City, State, Zip	Cincinnati, OH 45246-4012

4. SIC Code wastestream was generated under (If code is 2911, 28—,or 3312 complete form HERWS03) 9711

5. Common Name Lead Contaminated Rinse Water

6. Process Generating Waste Demo / Cleaning of Indoor Firing Range

7. DOT Description (*if available*) Hazardous Waste, liquid, n.o.s., 9, NA3082, PG III, (D008) ERG#171

8. Chemical Composition: Using specific chemical names, list all constituents present in the wastestream. Attach available analyses or MSDSs. Remember to identify Form R/TRI Toxic Chemicals. **Total composition must equal or exceed 100%.**

Constituent	Range	Units
Water	98-100	%
Lead	0-2	%

9. Identify US EPA waste codes D008

10. US EPA Form Code B110 US EPA Source Code A03

11. Identify state waste codes NA

12. Color Clear Appearance Liquid Odor none

13. %Solids 0 %Liquids 100

14. Physical State at 70 °F Solid ☐ Liquid ☒ Sludge ☐ Semi-solid ☐ Powder ☐ Gas ☐
If solid, are there free liquids? Yes ☐ No ☐ (If no, will waste dump from the drum? Yes ☐ No ☐)
Is the wastestream pumpable? Yes ☒ No ☐

15. pH or pH range (*If wastestream is solid, give pH of 10% slurry*): 5-9
Flash Point : <100°F ☐ 100-140°F ☐ 141-200°F ☐ >200°F ☒
Boiling Point: <100°F ☐ >100°F ☒
Fuel Value (Btu/lb): <2000 ☒ 2000-6000 ☐ 6000-10,000 ☐ > 10,000 ☐

16. Is the waste generated from, or associated with, metal finishing or other plating activities? Yes ☐ No ☒

Common Name (same as Item #5):

17. If the waste is federally hazardous, is this waste subject to Subpart CC regulation at 40 CFR 265.1080-1091 (i.e. contains greater than 500 ppm VOCs) ? Yes ☐ No ☐ NA ☒

18. Does this material meet the definition of a used oil (40 CFR 279)? Yes ☐ No ☒ If yes, has the waste been mixed with hazardous waste? Yes ☐ No ☐

19. Does the wastestream contain asbestos? Yes ☐ No ☒ If Yes, is the asbestos friable? Yes ☐ No ☐
Does the wastestream contain human sanitary, biological, or infectious waste? Yes ☐ No ☒
Does the wastestream contain dioxins or furans or dioxin-precursors? Yes ☐ No ☒
Does the wastestream contain radioactive wastes? Yes ☐ No ☒
Does the wastestream contain PCBs? Yes ☐ No ☒ If Yes, what concentration? _____ ppm
Is the wastestream air reactive, autoignitable, pyrophoric or spontaneously combustible? Yes ☐ No ☒
Is the wastestream water reactive? Yes ☐ No ☒
Does the wastestream present other compatibility concerns? Yes ☐ No ☒ If yes, specify _____
Is the wastestream dusty? Yes ☐ No ☒

20. List all Attachments

21 a. Transporter: Heritage Transport ☒ Other ☐
24 Hour Emergency Number _____
If transporter is not Heritage Transport, complete the following:
Transporter Name _____
Address _____
City, State, Zip _____
Contact/Phone _____
US EPA ID No. _____

21b. Packaging:
Bulk Solid ☐ Bulk Liquid ☐
Container ☒
Container Type DF
Container Size 5 gallon
Annual Volume (units) _____

22. **CERTIFICATION** *Sign and date the certification.*
I hereby certify that all information submitted herein and attached contains true, accurate and complete descriptions of this waste. Any sample submitted for analysis is representative of the waste material being offered for approval. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I have reviewed the physical facilities, administrative practices, and operational procedures (or have directed the completion of such a review) and based on this review do willingly make this certification. I authorize Heritage to obtain a sample from any waste shipment for purposes of recertification. I will notify Heritage Environmental Services, LLC if the generator status or any other information on this form changes.

Signature _____ Date 8/30/01 Company IT Corp

23. If wastestream carries F001, F002, F003, F004, and/or F005, identify concentration in mg/l or mg/kg for each constituent, if constituent is present, but concentrations are unknown, check the line.

Acetone		2-Ethoxyethanol		2-Nitropropane	
Benzene		Ethyl Acetate		Pyridine	
n-Butyl Alcohol		Ethyl Benzene		Tetrachloroethylene	
Carbon Disulfide		Ethyl Ether		Toluene	
Carbon Tetrachloride		Isobutanol		1,1,1-Trichloroethane	
Chlorobenzene		Methanol		1,1,2-Trichloroethane	
Cresol (m and p)		Methylene Chloride		Trichloroethylene	
o-Cresol		Methyl Ethyl Ketone		1,1,2-Trichloro-1,2,2-trifluoroethane	
Cyclohexanone		Methyl Isobutyl Ketone		Trichlorofluoroethane	
1,2-Dichlorobenzene		Nitrobenzene		Xylenes (total)	

24. Complete for Williston, VT Coolidge, AZ

System Type	*M141*	Total Alkalinity	TOC	Halogens	Sulfides	Zn
Hex Chrome		Total Acidity	HOC	Cyanides	Ni	

Toxicity Characteristic Constituents *Provide the TCLP results for the following constituents in mg/l:*

D004 Arsenic		D014 Methoxychlor		D024 m-Cresol		D034 Hexachloroethane	
D005 Barium		D015 Toxaphene		D025 p-Cresol		D035 Methyl Ethyl Ketone	
D006 Cadmium		D016 2,4-D		D026 Cresol		D036 Nitrobenzene	
D007 Chromium		D017 2,4,5-TP(Silvex)		D027 1,4-Dichlorobenzene		D037 Pentachlorophenol	
D008 Lead		D018 Benzene		D028 1,2 –Dichloroethane		D038 Pyridine	
D009 Mercury		D019 Carbon Tetrachloride		D029 1,1-Dichloroethylene		D039 Tetrachloroethylene	
D010 Selenium		D020 Chlordane		D030 2,4-Dinitrotoluene		D040 Trichloroethylene	
D011 Silver		D021 Chlorobenzene		D031 Heptachlor		D041 2,4,5-Trichlorophenol	
D012 Endrin		D022 Chloroform		D032 Hexachlorobenzene		D042 2,4,6-Trichlorophenol	
D013 Lindane		D023 o-Cresol		D033Hexachlorobutadiene		D043 Vinyl Chloride	

LDR1

LAND DISPOSAL RESTRICTIONS (LDR)
NOTICE AND CERTIFICATION

Waste Does Not Meet Applicable Treatment Standards - This is a restricted waste that does not meet the applicable treatment standards set forth in Subpart D of 40 CFR Part 268, or exceeds the applicable prohibition levels set forth in 40 CFR 268.32 or RCRA Section 3004(d).

ertify that the information provided on this and any additional pages (HESLDR1;HESLDR3) of s LDR notification is true, accurate and complete.

horized Signature: John K. Kuh Print or Type Name: John K. Kuh
pany/Title: STAFF SERGEANT Date: 2 Aug 01

itage does not warrant the acceptability of this form for any specific purpose, waste or atment method and does not warrant that its use will constitute compliance with licable law and expressly disclaims responsibility or liability, for any penalties, ages or other costs which may arise out of or be related to use of this document.

ESLDR1) *

NOTICE AND CERTIFICATION

erator Name: U.S. ARTC Middletown, IA EPA I.D. No: IA0000601021

ifest Doc. No: State Manifest No:

1) nifest ge/Line Item	(2) Hazardous Waste Code (One per line)	(3) Waste Water	(4) Non-Waste Water	(5) Subcategory (if applicable)	(6) Underlying Constituents?	(7) Applicable Certification (One per line)
1/A	D008		Y	1	NA	1

category Description

) D008 TC WASTE MANAGED IN CWA SYSTEM

Enter date waste is subject to prohibition if Certification #3 applies.

HER- 011594

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter) Form Approved: OMB No. 2050-0039. Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID Number: IA0000601021 Manifest Document No.: 115-9-4
2. Page 1 of 1
Information in the shaded areas is not required by Federal Law.

3. Generator's Name and Mailing Address
U.S. ARTC
17879 HIGHWAY 79, MIDDLETOWN, IA 52638

A. State Manifest Document Number

4. Generator's Phone: 319 1392-4296

5. Transporter 1 Company Name: HERITAGE TRANSPORT, LLC
6. U.S. EPA ID Number: IND058464114

7. Transporter 2 Company Name
8. U.S. EPA ID Number

9. Designated Facility Name and Site Address
HERITAGE ENVIRONMENTAL SERVICES, LL
7901 WEST MORRIS STREET
INDIANAPOLIS, IN 46231
10. U.S. EPA ID Number: IND098218012

11. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.
a. RQ, HAZARDOUS WASTE, LIQUID, N.O.S., 9, NA3082, PG III, (LEAD) (D008)ERG# 171	~~002 D H~~ 003	DF	001.65	G
b. NON-DOT UNIVERSAL WASTE--MERCURY-CONTAINING LAMP	~~001 D H~~ 001	CF	0003.0	P
c.				
d.				

15. Special Handling Instructions and Additional Information
24 HOUR EMERGENCY PHONE #: 319 752-2115

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

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

Printed/Typed Name: John K. King Signature: John K. King Date: Month 11 Day 26 Year 01

17. Transporter 1 - Acknowledgement of Receipt of Materials
Printed/Typed Name: Terry Spangler Signature: [illegible] Date: Month 11 Day 26 Year 01

18. Transporter 2 - Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Confirmation of receipt of hazardous materials covered by the manifest (except as noted in Item 19).
Printed/Typed Name: Chris Ketcher Signature: [illegible] Date: Month 12 Day 27 Year 01

GENERATOR TRANSPORTER FACILITY

In case of a spill, call the National Response center at 800 / 424-8802 or 202 / 426-2675

EPA Form 8700-22 (Rev. 10-94) Previous editions are obsolete.

APPENDIX E
Non-hazardous Waste Management Records

ALTER
SCRAP PROCESSING
A Division of Alter Trading Corporation

2101 N. West Burlington Ave.
P.O. Box 220
W. Burlington, IA 52655
319-752-3643

PRICE NT 0
EXT.$

NO. 16950

10:51 AM 08-21-01
LOOP # 30 INBOUND 37000 lb
09-07-01 09:40 AM
37000 lb GR
26100 lb TA
10900 lb NT

CARRIER
TRUCK NO.
TRAILER NO.
DRIVER - ON ✓ OFF

CUSTOMER NO. NAME IT Corp. Middletown, IA Range

CODE NO. 0050 DESC. Misc WEIGHER Kim

FBN -01 6/00

MATERIAL RADIATION CHECKED

DES MOINES COUNTY WASTE DISPOSAL FACILITY 1166557

1818 W. Burlington Ave
Burlington, IA 52601

Account: 347 - Waste Management
Vehicle: 453
Box :

Ticket Number: 58623
Operator : admin
Date : 8/22/01

Waste : 33 - Demolition
Gross: 38560 lbs Time In : 08:30 AM 2.76 Tons @ $23.50
Tare : 33040 lbs Time Out : 08:41 AM $64.86

Sales Fee..... $0.00
Local Fee..... $0.00
School Fee..... $0.00
TOTAL..... $64.86

Signature
www.wastewrap.org

M-F 8am to 4pm SAT 8am to 12pm

Burlington Memorial USARC

Middletown, IA

HER- 011595

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter.) Form Approved: OMB No. 2050-0039. Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID Number: IA000060102 1
Manifest Document No.: 5495
2. Page 1 of 1
Information in the shaded areas is not required by Federal Law.

3. Generator's Name and Mailing Address
U.S. ARTC
17879 HIGHWAY 79, MIDDLETOWN, IA 52638
4. Generator's Phone (319) 292 4296

A. State Manifest Document Number

5. Transporter 1 Company Name: HERITAGE TRANSPORT, LLC
6. U.S. EPA ID Number: IND058484444

7. Transporter 2 Company Name
8. U.S. EPA ID Number

9. Designated Facility Name and Site Address
LIGHTING RESOURCES, INC.
498 PARK 800 DRIVE
GREENWOOD, IN 46143
10. U.S. EPA ID Number: IND000854867

11. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.
a. POLYCHLORINATED BIPHENYLS, SOLID, 9, UN2315, PG II, ERG# 171	001	DF	00005	G
b.				
c.				
d.				

15. Special Handling Instructions and Additional Information
24 HOUR EMERGENCY PHONE #: 319-752-7115

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

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

Printed/Typed Name: John Kirk
Signature: John Kirk
Date: Month 01 Day 24 Year 01

TRANSPORTER

17. Transporter 1 - Acknowledgement of Receipt of Materials
Printed/Typed Name: Terry Spangler
Signature: Terry Spangler
Date: Month 1 Day 26 Year 01

18. Transporter 2 - Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest (except as noted in Item 19).
Printed/Typed Name: RANDALL SLINKER
Signature: Randall Slinker
Date: Month 1 Day 17 Year 01

GENERATOR

In case of a spill, call the National Response center at 800 / 424-8802 or 202 / 426-2675

EPA Form 8700-22 (Rev. 10-94) Previous editions are obsolete.

COPY 1 - TSD

HER- 011594

PLEASE PRINT OR TYPE (Form designed for use on elite (12-pitch) typewriter) Form Approved: OMB No. 2050-0039. Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID Number: I A 0 0 0 0 6 0 1 0 2 1 .
Manifest Document No.: 1 1 5 9 4
2. Page 1: 1
Information in the shaded areas is not required by Federal Law.

3. Generator's Name and Mailing Address
U.S. ARTC
17879 HIGHWAY 79, MIDDLETOWN, IA 52638

A. State Manifest Document Number

4. Generator's Phone: 319 1392-4296

5. Transporter 1 Company Name: HERITAGE TRANSPORT, LLC
6. U.S. EPA ID Number: I N D 0 6 8 4 8 4 1 1 4 .

7. Transporter 2 Company Name:
8. U.S. EPA ID Number: . . . . . .

9. Designated Facility Name and Site Address
HERITAGE ENVIRONMENTAL SERVICES, LL
7901 WEST MORRIS STREET
INDIANAPOLIS, IN 46231
10. U.S. EPA ID Number: I N D 0 9 3 2 1 8 0 1 2 .

11. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.
a. RQ, HAZARDOUS WASTE, LIQUID, N.O.S., 9, NA3082, PG III, (LEAD) (D008)ERG# 171 0 0 2 B N	003	DF	001.65	G
b. NON-DOT UNIVERSAL WASTE--MERCURY-CONTAINING LAMP 0 0 1 B N	001	CF	0003.0	P
c.				
d.				

15. Special Handling Instructions and Additional Information
24 HOUR EMERGENCY PHONE #: 319 752-2115

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

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

Printed/Typed Name: John K. King
Signature: John K. King
Date: Month 1 1 Day 2 6 Year 0 1

17. Transporter 1 - Acknowledgement of Receipt of Materials
Printed/Typed Name: Terry Spangler
Signature: Terry Spangler
Date: Month 1 1 Day 2 6 Year 0 1

18. Transporter 2 - Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest, except as noted in Item 19.
Printed/Typed Name: Chris Ketcha
Signature:
Date: Month 12 Day 21 Year 01

GENERATOR / TRANSPORTER / FACILITY

In case of a spill, call the National Response center at 800 / 424-8802 or 202 / 267-2675

EPA Form 8700-22 (Rev. 10-94) Previous editions are obsolete.

APPENDIX F
Lead Monitoring Analytical Results

ACCURA ANALYTICAL LABORATORY
6017 Financial Drive, Norcross, Georgia, 30071, Phone (770) 449-8800

Case Narrative

AAL Project #: 28675

Client Project: Middletown, IA / 828053

No problems were encountered concerning this project.

Approved for Quality Assurance Release By:

Camden Robinson — 8/30/01 Date

Quality Assurance Officer

This report may not be reproduced, except in full, without written approval from Accura Analytical Laboratory, Inc.

A2LA Accredited-ID: 120261 •Certificate #-1365.1•Exp 7/31/02 Effective 8/14/00•Scope: Testing Technologies

Potable & Non-potable Water-Solid/Hazardous Waste

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC19173** **Accura Project #:** **28675**

Client: IT Corporation - Cincinnati Date Sampled: 8/14/01

Client Contact: BILL SCOVILLE Date Received: 8/24/01

Client Project Number: 828053 Date Reported: 8/29/01

Client Project Name: MIDDLETOWN, IA Sample Matrix: AIR

Client Sample ID: **89IAMID01AUG14001AR**

ANALYSIS: Metals - Lead (per cartridge) Method Ref: NIOSH 7300

Date Ext/Dig/Prep: 8/27/01 Date Analyzed: 8/27/01 Result Units: ug/sample

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	6200		2.5

ANALYSIS: Metals - Lead in Air Method Ref: 6010B/7300

Date Ext/Dig/Prep: 8/27/01 Date Analyzed: 8/27/01 Result Units: mg/m3

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	5.8		0.050

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC19174** **Accura Project #:** **28675**

Client: IT Corporation - Cincinnati Date Sampled: 8/14/01

Client Contact: BILL SCOVILLE Date Received: 8/24/01

Client Project Number: 828053 Date Reported: 8/29/01

Client Project Name: MIDDLETOWN, IA Sample Matrix: AIR

Client Sample ID: **89IAMID01AUG14002AR**

ANALYSIS: Metals - Lead (per cartridge) Method Ref: NIOSH 7300

Date Ext/Dig/Prep: 8/27/01 Date Analyzed: 8/27/01 Result Units: ug/sample

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	450		2.5

ANALYSIS: Metals - Lead in Air Method Ref: 6010B/7300

Date Ext/Dig/Prep: 8/27/01 Date Analyzed: 8/27/01 Result Units: mg/m3

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	0.39		0.050

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC19175** **Accura Project #:** **28675**

Client: **IT Corporation - Cincinnati** Date Sampled: 8/14/01

Client Contact: BILL SCOVILLE Date Received: 8/24/01

Client Project Number: 828053 Date Reported: 8/29/01

Client Project Name: MIDDLETOWN, IA Sample Matrix: AIR

Client Sample ID: **89IAMID01AUG14003AR**

ANALYSIS: **Metals - Lead (per cartridge)** Method Ref: NIOSH 7300

Date Ext/Dig/Prep: 8/27/01 Date Analyzed: 8/27/01 Result Units: ug/sample

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	750		2.5

ANALYSIS: **Metals - Lead in Air** Method Ref: 6010B/7300

Date Ext/Dig/Prep: 8/27/01 Date Analyzed: 8/27/01 Result Units: mg/m3

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	0.70		0.050

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC19176** **Accura Project #:** **28675**

Client: **IT Corporation - Cincinnati** Date Sampled: 8/14/01

Client Contact: BILL SCOVILLE Date Received: 8/24/01

Client Project Number: 828053 Date Reported: 8/29/01

Client Project Name: MIDDLETOWN, IA Sample Matrix: AIR

Client Sample ID: **89IAMID01AUG14004AR**

ANALYSIS: **Metals - Lead (per cartridge)** Method Ref: NIOSH 7300

Date Ext/Dig/Prep: 8/27/01 Date Analyzed: 8/27/01 Result Units: ug/sample

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	9.7		2.5

ANALYSIS: **Metals - Lead in Air** Method Ref: 6010B/7300

Date Ext/Dig/Prep: 8/27/01 Date Analyzed: 8/27/01 Result Units: mg/m3

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	<RL		0.050

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC19177** **Accura Project #:** **28675**

Client: **IT Corporation - Cincinnati** Date Sampled: 8/15/01

Client Contact: BILL SCOVILLE Date Received: 8/24/01

Client Project Number: 828053 Date Reported: 8/29/01

Client Project Name: MIDDLETOWN, IA Sample Matrix: AIR

Client Sample ID: **89IAMID01AUG15001AR**

ANALYSIS: **Metals - Lead (per cartridge)** Method Ref: NIOSH 7300

Date Ext/Dig/Prep: 8/27/01 Date Analyzed: 8/27/01 Result Units: ug/sample

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	26		2.5

ANALYSIS: **Metals - Lead in Air** Method Ref: 6010B/7300

Date Ext/Dig/Prep: 8/27/01 Date Analyzed: 8/27/01 Result Units: mg/m3

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	<RL		0.050

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AC19178 **Accura Project #:** 28675

Client: IT Corporation - Cincinnati Date Sampled: 8/15/01

Client Contact: BILL SCOVILLE Date Received: 8/24/01

Client Project Number: 828053 Date Reported: 8/29/01

Client Project Name: MIDDLETOWN, IA Sample Matrix: AIR

Client Sample ID: 89IAMID01AUG15002AR

ANALYSIS: Metals - Lead (per cartridge) Method Ref: NIOSH 7300

Date Ext/Dig/Prep: 8/27/01 Date Analyzed: 8/27/01 Result Units: ug/sample

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	14		2.5

ANALYSIS: Metals - Lead in Air Method Ref: 6010B/7300

Date Ext/Dig/Prep: 8/27/01 Date Analyzed: 8/27/01 Result Units: mg/m3

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	<RL		0.050

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC19179** **Accura Project #:** **28675**

Client: IT Corporation - Cincinnati Date Sampled: 8/15/01

Client Contact: BILL SCOVILLE Date Received: 8/24/01

Client Project Number: 828053 Date Reported: 8/29/01

Client Project Name: MIDDLETOWN, IA Sample Matrix: AIR

Client Sample ID: **89IAMID01AUG15003AR**

ANALYSIS: Metals - Lead (per cartridge) Method Ref: NIOSH 7300

Date Ext/Dig/Prep: 8/27/01 Date Analyzed: 8/27/01 Result Units: ug/sample

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	92		2.5

ANALYSIS: Metals - Lead in Air Method Ref: 6010B/7300

Date Ext/Dig/Prep: 8/27/01 Date Analyzed: 8/27/01 Result Units: mg/m3

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	0.086		0.050

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AC19180 **Accura Project #:** 28675

Client: IT Corporation - Cincinnati Date Sampled: 8/15/01

Client Contact: BILL SCOVILLE Date Received: 8/24/01

Client Project Number: 828053 Date Reported: 8/29/01

Client Project Name: MIDDLETOWN, IA Sample Matrix: AIR

Client Sample ID: **89IAMID01AUG15004AR**

ANALYSIS: Metals - Lead (per cartridge) Method Ref: NIOSH 7300

Date Ext/Dig/Prep: 8/27/01 Date Analyzed: 8/27/01 Result Units: ug/sample

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	8.1		2.5

ANALYSIS: Metals - Lead in Air Method Ref: 6010B/7300

Date Ext/Dig/Prep: 8/27/01 Date Analyzed: 8/27/01 Result Units: mg/m3

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	<RL		0.050

the IT group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document No. 569802
Page 1 of 21 AAL # 28675 @ 20°C

RANGE CLEAN UP - MIDDLETOWN, IA

Project Name/No. [1] 828053
Sample Team Members [2] MIKE NAVA
Profit Center No. [3] 5511001
Project Manager [4] BILL SCOVILLE
Purchase Order No. [6] 828053
Required Report Date [11] 8/28/01

Samples Shipment Date [7] 8/23/01
Lab Destination [8] Accura
Lab Contact [9] Trinidad
Project Contact/Phone [12] BILL SCOVILLE (513) 782-4964
Carrier/Waybill No. [13] FED-EX

Bill to: [5] IT CORP
312 DIRECTORS DR.
KNOXVILLE, TN 37923
ATTN: ACCOUNTS PAYABLE

Report to: [10] IT CORP
11499 CHESTER RD.
CINCINNATI, OH 45246

White: To accompany samples
Yellow: Field copy

ONE CONTAINER PER LINE

Sample Number [14]	Sample Description/Type [15]	Date/Time Collected [16]	Container Type [17]	Sample Volume [18]	Pre-servative [19]	Requested Testing Program [20]	Condition on Receipt [21]	Disposal Record No. [22]
891AMID01AUG14 001AR	AIR	8-14-01	CASSETTES	1.07 m3	NA	LEAD (NIOSH 7300)	FOR LAB USE ONLY	AC19173
891AMID01AUG14 002AR	↓	↓	↓	1.16	↓	↓		74
891AMID01AUG14 003AR	↓	↓	↓	1.07	↓	↓		75
891AMID01AUG14 004AR	↓	↓	↓	1.19	↓	↓		76
891AMID01AUG15 001AR	AIR	8-15-01	CASSETTES	1.11	NA	LEAD (NIOSH 7300)	FOR LAB USE ONLY	77
891AMID01AUG15 002AR	↓	↓	↓	1.15	↓	↓		78
891AMID01AUG15 003AR	↓	↓	↓	1.08	↓	↓		79
891AMID01AUG15 004AR	↓	↓	↓	1.13	↓	↓		80

Special Instructions: [23]

Possible Hazard Identification: [24]
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal: [25]
Return to Client ☐ Disposal by Lab ☒ Archive _____ (mos.)

Turnaround Time Required: [26]
Normal ☐ Rush ☒ 48 HR. TAT

QC Level: [27]
I. ☐ II. ☐ III. ☐ Project Specific (specify): PER CONTRACT SPECS

1. Relinquished by [28] (Signature/Affiliation) IT Corp	Date: Time:	1. Received by [28] (Signature/Affiliation) IT Corp	Date: 8/23/01 Time: 1100
2. Relinquished by (Signature/Affiliation) IT Corp	Date: 8/23/01 Time: 1100	2. Received by (Signature/Affiliation) FEDEX	Date: Time:
3. Relinquished by (Signature/Affiliation) FEDEX	Date: 08 24 01 Time: 09:20	3. Received by (Signature/Affiliation)	Date: 08 24 01 Time: 09:30

Comments: [29] PLEASE FARWARD ALL ANALYTICAL DATA TO BILL SCOVILLE.
FAX: (513) 782-4663 E-MAIL WSCOVILLE@THEITGROUP.COM

*See back of form for special instructions.

MCA 3/15/91

APPENDIX G
Clearance Certification Letter

IT Corporation
11499 Chester Road
Cincinnati, OH 45246-1012
Tel. 513.782.4700
Fax. 513.782.4807

A Member of The IT Group

the IT group

September 18, 2001

Richard Hester
Facility Manager
Burlington Memorial U.S. Army Reserve Center
17879 Highway 79
Middletown, Iowa 52638

RE: Range Cleaning Clearance Certification – Facility ID IA019, 89th RSC
USARC Nationwide Indoor Rifle Range Cleanup Project
Contract No. DACA 27-99-D-0021, Delivery Order No. 12

Dear Mr. Hester:

With this letter, IT Corporation certifies that the recent range cleaning activities have successfully attained the project clearance objectives and the range is approved for your reoccupancy. Range clearance procedures consisted of the following:

- A surface-by-surface visual examination to verify that:
  - The lead hazard control work was completed as required
  - No known or suspected lead-dust surfaces are still present in the range at levels that exceed the project clearance level of 200 µg/sf.
- Clearance sampling consisting of collecting wipe samples from the floor surfaces and analyzing the samples for lead.

A formal project report for the range cleanup will be submitted upon completion of all waste disposal activities and receipt of disposal certificates.

Please note that although the range has been cleaned to below the project clearance levels, small amounts of lead dust may be present in the range. Any remodeling activities that may cause a release of dust on wall and floor surfaces should be undertaken in consideration of the Occupational Safety and Health Administration (OSHA) Construction Industry Standard for Lead (29 CFR 1926.62). This OSHA standard should be reviewed before any remodeling activities are conducted. The OSHA standard requires certain controls to reduce or maintain worker exposures less than the Permissible Exposure Limit (PEL) of 50 µg of lead per cubic meter (m^3). The employer must protect the worker from lead.

We appreciated your cooperation and support during the range cleanup. Should you have any questions, please contact the undersigned at (513) 782-4700.

Sincerely,

IT CORPORATION

W.H. Scoville

William H. Scoville, P.E.
Project Manager

cc: David Dierken, U.S. Army Corps of Engineers, Louisville District
Ed Tyner, 89th RSC Engineer

ASBESTOS

CALL #201-8

INDUSTRIAL HYGIENE AIR SAMPLE DATA

Commander
U.S. Army Health Clinic
ATTN: HSXP-FS-PM
Fort Sheridan, IL 60037-5570

AEHA TG 141; the proponent is HSHB-LO.

(including Zip Code)

Point of Contact (name/AUTOVON)
GLEN DANIELSON
AV 280-3403

Associated Bulk Samples
☒ Yes ☐ No
Bulk Sample No(s):

Samples Collected By	Date Collected	Date Shipped
PAT PECK	MAR 20 1991	

Project Number	Sampled Installation	ARLOC
VC-Ø3312-1P	MIDDLETOWN, MT. PLEASANT, WASHINGTON IOWA	

Location (BLDG/AREA)	Description of Operation (details on reverse)
Boiler Rooms	Elbows Sampled

Persons Exposed	Hrs/Day	Method of Collection
1	1	Water Spray, Knife + Canister

Associated Complaints (be specific) (state NONE if applicable)

Analysis Desired

A-9-91 M. Pleasant; A-10-91 Washington; A-8-91 Middletown; A-11-91 Washington

Sampling Data

Sample No.	MT-2	W-3	M-1	W-4				
~~Pump No.~~								
Time On	used	chron	Control	test				
Time Off		procedure	for all					
Total Time (min)		tests						
Flow Rate (LPM)								
Volume (Liters)								
GAVS?								
Employee Name/ID	PP	PP	PP	PP				
Laboratory No.	Self	Self	Self	Self				

Results

Elbow Material	orange	orange	orange	orange				

orange color could be Possitive for Asbestos Content

Comments to Lab:

Lab Use Only

Analyst (initials)	Reviewed By (initials)	Date Received	Date Dispatched

AEHA Form 9-R, 1 Oct 84

Replaces AEHA Form 9, 1 Oct 80 which is obsolete.

REPRODUCED AT GOVERNMENT EXPENSE

Daniel J. Hartwig Associates, Inc.
Consultants in Health, Safety and the Environment

Oregon, WI. 53575-0031
Telephone (608) 835-5781

Asbestos Bulk Sample Analysis
Accreditation Number
5813 (U.S.E.P.A.)

Suspect Asb
Bulk-Sample
Analysis Results

DHA Laboratory Identification Number		1	12548	12549	12550	12551		
Field Sample Identification Number		2	MT-2	W-3	M-1	W-4		
RESULTS	Asbestos Present (enter number and percent) 1.Amosite 2.Chrysotile 3.Crocidolite 4.Other, specify	3 4 5 6	3		2			
	Total asbestos in sample	7	5%		40-50%			
Gross Sample Appearance	a Is the sample homogenous?	8	✓	✓	✓	✓		
	b Does it contain obvious layers	9						
	c Is the sample fibrous?	10						
	d Sample color	11	tan	white	white	white		
Analytical Method (Enter Number) 1.PLM W/dispersion stain 2.PLM+X-ray diffraction			1	1	1	1		
Sample treatment (enter number) 1.None 2.Homogenized 3.Other, specify			1	1	1	1		
Other Fibrous Materials Present (enter number and percent) 1.Fibrous glass 2.Cellulose 3.Other, specify			1	2 Vermiculite		1		
Non-Fiberous material			matrix	matrix	matrix			
Analyst's C			A-9-91 Mt Pleasant	A-10-91 Washington	A-8-91 Middletown	A-11-91 Washington		

DHA Lab. Report Form
+SAB0001

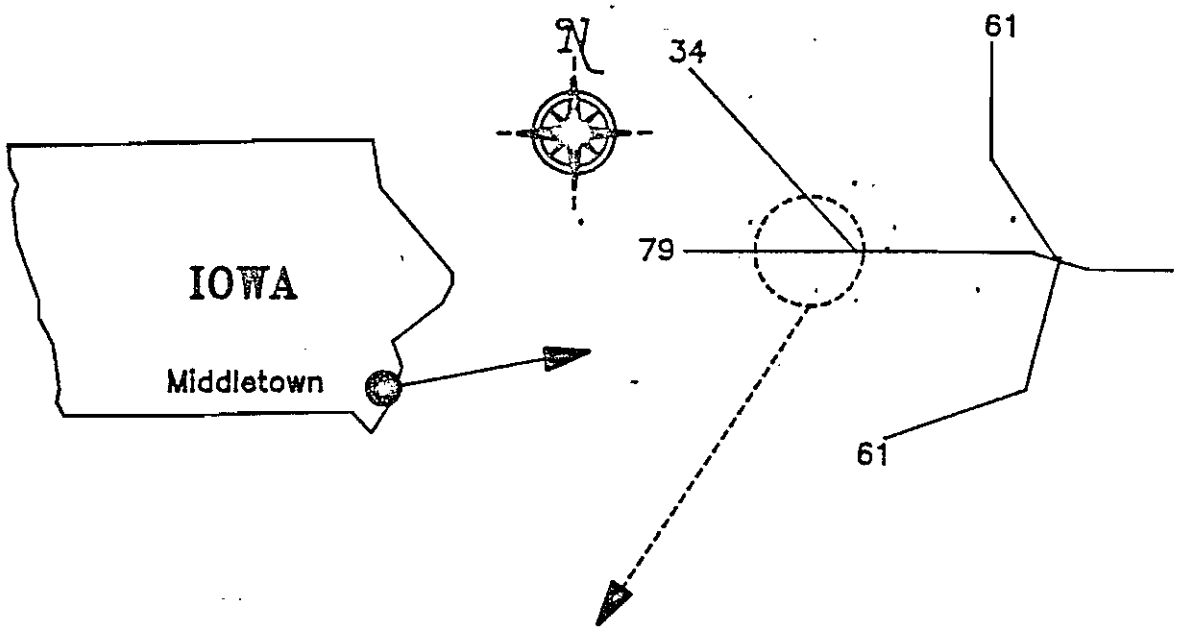
Analyst's Signature Diane E. Hartwig
Date 8/8-91

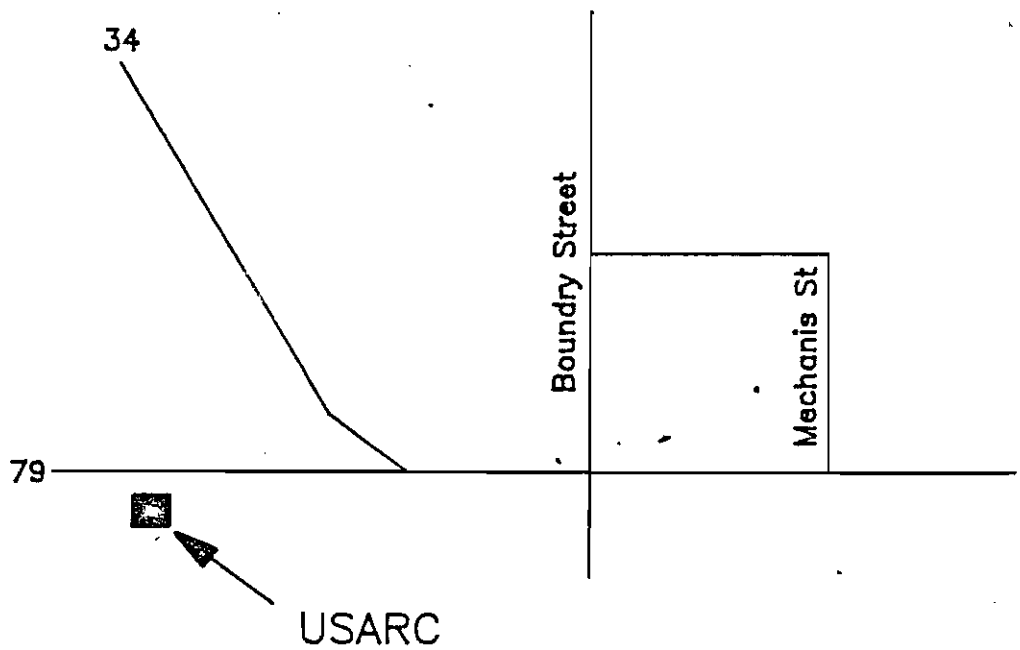
MIDDLETOWN USARC

RR # 1, Box 130
Middletown, IA 52638–9700

319–392–4296

FACID – 47112





REPRODUCED AT GOVERNMENT EXPENSE

Burlington — Middletown, Iowa Hwy 79 West of Middletown
(319) 392-4296 Just west of arsenal

Furnace Room = None Detected

Need Sample

19 Tuesday — M~~r~~ Sgt. Whitaker —
~~Boiler Room~~ has Fiberglass on Pipes —
~~took~~ samples of Elbows for possible A.C.M.

~~[illegible]~~ No garage

Middletown, IA. ↔ 842-040648

(002) WORK

(013) TRAVEL

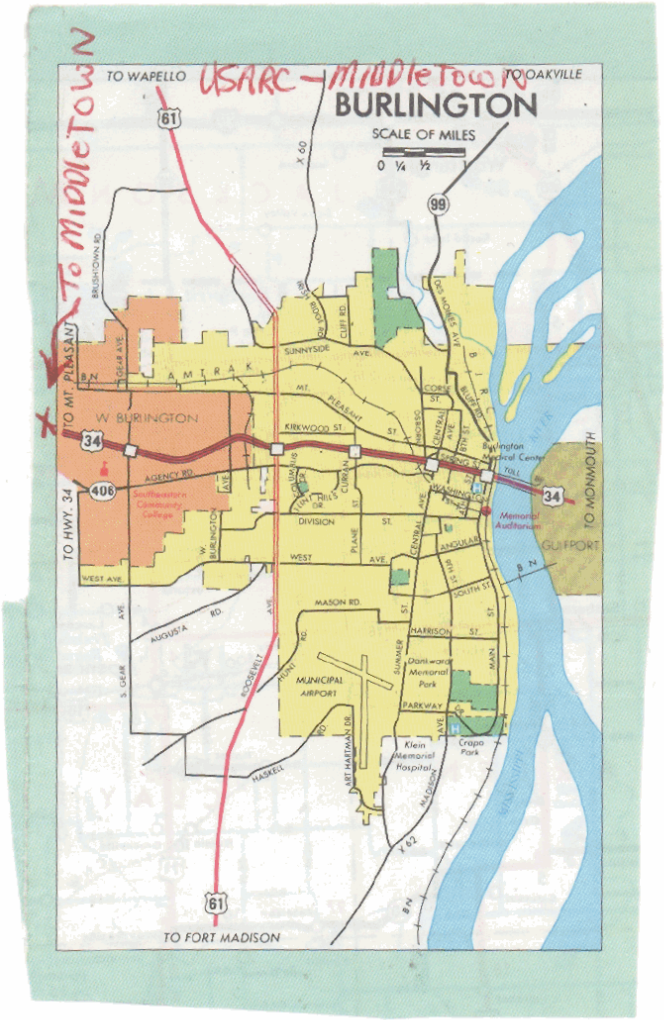
used as Rifle Range -
sandtrap?

1ST Floor

Lots a Lead

WK of MAY 9TH

1973
Fun - No


TO WAPELLO
USARC - MIDDLETOWN
TO OAKVILLE
BURLINGTON
SCALE OF MILES
0 ¼ ½ 1
61
99
X 60
BRUSHTOWN RD.
TO MIDDLETOWN
TO MT. PLEASANT
TO HWY. 34
W. BURLINGTON
AMTRAK
BN
34
406
AGENCY RD.
Southeastern Community College
SUNNYSIDE AVE.
MT. PLEASANT ST.
KIRKWOOD ST.
CORN ST.
CENTRAL AVE.
Burlington Medical Center
Memorial Auditorium
DIVISION ST.
WEST AVE.
ANGULAR
SOUTH ST.
MASON RD.
HARRISON ST.
AUGUSTA RD.
MUNICIPAL AIRPORT
Danlworth Memorial Park
PARKWAY
Klein Memorial Hospital
Crapo Park
HASKELL
TO MONMOUTH
GULFPORT
X 62
TO FORT MADISON

IOWA CITY	IA	USARC	1959	G	boiler brick						11-Jun-91	B1		NONE
IOWA CITY	IA	USARC	1959	G	boiler door						11-Jun-91	B2		1-5% CHRY
IOWA CITY	IA	USARC	1959	G	boiler side						11-Jun-91	B3		NONE
IOWA CITY	IA	USARC	1959	G	outside	air monitoring	ga				11-Jun-91	IC1		0.02 F/CC
IOWA CITY	IA	USARC	1959	G	filters on air	air monitoring	ga				12-Jun-91	IC2		NONE
IOWA CITY	IA	USARC	1959	G	boiler rm clearance	air monitoring	ga				12-Jun-91	IC3		0.003 F/CC
MIDDLETOWN	IA	USARC	1973	G	boiler	elbow, orange					20-Mar-90	891	M-1	40-50% CHRY
MT PLEASAN	IA		1962	G	boiler						20-Mar-90	991		5% CROC
POCAHONTA	IA	USARC	1977	G	boiler rm	ceiling material					01-Jul-85	485		NONE
POCAHONTA	IA	USARC	1977	G	boiler rm, oms office	ceilings, gry			500		16-Feb-94	7094		5% CHRY
POCAHONTA	IA	USARC	1977	G	boiler rm	ac wrap, piping, gry				10	16-Feb-94	7194		NONE
POCAHONTA	IA	USARC	1977	G	boiler rm	furnace/duct insl					27-Aug-85	885		NONE
SAC CITY	IA	USARC	1976	G	rm 9, boiler rm	tank, wht			40		01-Feb-94	5194		NONE
SAC CITY	IA	USARC	1976	G	rm 9, boiler rm	tank, wht			12		01-Feb-94	5294		20% CHRY
SAC CITY	IA	USARC	1976	G	rm 15 door by hall	12" tile, brwn			1126		01-Feb-94	5394		8% CHRY
SAC CITY	IA	USARC	1976	G	rm 9 boiler rm	tank, wht			5		01-Feb-94	5494		NONE
SAC CITY	IA	USARC	1976	G	rm 14 main hall	ceiling tile, wht			2820		01-Feb-94	5594		NONE
SIOUX CITY	IA	USN-SIDE	1975	G	1st & 2nd floor	cinder block					26-Jul-90			5% to 10% assumed PER CONT
SIOUX CITY	IA	USN-SIDE	1975	G	2nd floor	rubberized vinyl floor					26-Jul-90			15% assumed PER CONTRACT
SIOUX CITY	IA	USN-SIDE	1975	G	2nd floor	tile grout					26-Jul-90			15% assumedPER CONTRACT
SIOUX CITY	IA	USN-SIDE	1975	G	boiler rm	boiler vibr joint cloth					26-Jul-90			assumed 70% PER CONTRACT
SIOUX CITY	IA	USN-SIDE	1975	G	2nd floor	1ft x 1ft vinyl flooring					26-Jul-90			21% assumed PER CONTRACT
SIOUX CITY	IA	USN-SIDE	1975	G	1st & 2nd floor	vft mastic					26-Jul-90			15% assumed PER CONTRACT
SIOUX CITY	IA	USN-SIDE	1975	G	1st floor	1x1 vft vinyl f. tile					26-Jul-90			21% assumed PER CONTRACT
SIOUX CITY	IA	USN-SIDE	1975	G	drill hall, 1st floor	hot w. line abv rm 122					26-Jul-90			NONE

GARNER	IA	USARC	1959	G		FLOOR TILE	LT. BRN			51494	15% CHRY
IOWA CITY	IA	USARC	1959	G		BOILER RM, ABATED ALL KNOWN FRIABLE ASBESTOS					
IOWA CITY	IA		1959	G						137545	<1% CHRY
IOWA CITY	IA	USARC	1959	G		HALLWAY	RADIATOR	15 JUN 93		28093	NONE
IOWA CITY	IA	USARC	1959	G		Garage area	Pipe insulation	16 APR 87		1687	60% CHRY
IOWA CITY	IA	USARC	1959	G			Boiler insulation	13 MAR 86		1186	41% CHRY
IOWA CITY	IA		1959	G			BOILER	04 DEC 90		391	30-40% CHRY
IOWA CITY	IA	USARC	1959	G		BOILER ROOM CLEARANCE		11 JUN 91	IC3		0.003 F/CC
IOWA CITY	IA	USARC	1959	G		FILTERS ON AIR		11 JUN 91	IC2		NONE
IOWA CITY	IA	USARC	1959	G		BOILER SIDE		11 JUN 91	B3		NONE
IOWA CITY	IA	USARC	1959	G		OUTSIDE		11 JUN 91			
IOWA CITY	IA	USARC	1959	G		ABATED SINCE 13 MARCH 86					
IOWA CITY	IA	USARC	1959	G		OUTSIDE		11 JUN 91	IC1		0.02 F/CC
IOWA CITY	IA	USARC	1959	G		DRILL HALL,ABOVE DR	removed elbows, encap.				
IOWA CITY	IA	USARC	1959	G		BOILER BRICK		11 JUN 91	B1		NONE
IOWA CITY	IA	USARC	1959	G		BOILER DOOR		11 JUN 91	B2		1-5% CHRY
MIDDLETOWN	IA	USARC	1973	G				20 MAR 91		891	40-50% CHRY
MIDDLETOWN	IA	USARC	1973	G		BOILER		20 MAR 90		891	40-50% CHRY
MIDDLETOWN	IA	USARC	1973	G		Furnace rm	Furnace insulation	18 MAR 87			NONE
MT PLEASANT	IA		1962	G		BOILER		20 MAR 90		991	5% CROC
MT PLEASANT	IA		1962	G		BOILER	SELF	20 MAR 91		991	5% CHRY
MT PLEASANT	IA	USARC	1962	G		Furnace rm	Furnace insulation	18 MAR 87			NONE
MUSCATINE	IA	USARC		L		Furnace rm	Furnace insulation	18 MAR 87			NONE
OTTUMWA	IA	USARC		L		Furnace rm	Furnace insulation	05 MAR 87			NONE
POCAHONTAS	IA	USARC	1977	G			Ceiling material	00 JUL 85		485	NONE
POCAHONTAS	IA	USARC	1977	G		boiler room	air condition wrap	16 FEB 94		7194	5% CHRY
POCAHONTAS	IA	USARC	1977	G		Boiler rm	Furnace/duct insulation	1985		885	NONE
POCAHONTAS	IA	USARC	1977	G		boiler room		16 FEB 94		7094	NONE
POCAHONTAS	IA	USARC	1977	G		1994 visit by P Peck, no additional items found to sample for asbestos..					NONE
SAC CITY	IA	USARC	1976	G		15	VFT	1994		5394	8% CHRY
SAC CITY	IA	USARC	1976	G		9	TANK	1994		5494	NONE
SAC CITY	IA	USARC	1976	G		9	TANK	1994		5194	NONE
SAC CITY	IA	USARC	1976	G		14	CEILING TILE	1994		5594	NONE
SAC CITY	IA	USARC	1976	G		Furnace rm	Furnace/duct insulation	23 FEB 87			NONE
SAC CITY	IA	USARC	1976	G		9	TANK	1994		5294	20% CHRY
SAC CITY	IA	USARC	1976	G	TRAINI	BOX	VINYL TILE	31 JAN 94		3394	4% CHRY
SAC CITY	IA	USARC	1976	G	TRAINI	THRU-OUT	ELBOW	31 JAN 94		3794	NONE
SAC CITY	IA	USARC	1976	G	TRAINI	THRU-OUT	PIPE	31 JAN 94		3694	NONE
SAC CITY	IA	USARC	1976	G	TRAINI	ROOM	DUCT	31 JAN 94		3594	NONE
SAC CITY	IA	USARC	1976	G	TRAINI	BOX	TILE	31 JAN 94		3494	< 1% CHRY
SIOUX CITY	IA	USARC	1959	G		Rm 202	Tan tile	00 FEB 94		6994	6% CHRY,
SIOUX CITY	IA	USN-SIDE	1975	G		Boiler rm, Navy side	hot water line,west wall	26 JUL 90		7158035	NONE
SIOUX CITY	IA	USARC	1959	G		Rm 215, 122	Brown tile	00 FEB 94		6894	5% CHRY,
SIOUX CITY	IA	USARC	1959	G		Rm 215, 122	Brick tile	00 FEB 94		6794	5% CHRY,
SIOUX CITY	IA	USN-SIDE	1975	G		Boiler rm, Navy side	breaching, E. side 12"OD	26 JUL 90		7158002	Average 13% CHRY
SIOUX CITY	IA	USARC	1959	G		Boiler rm	City water	00 FEB 94		6594	<1% CHRY, <1% AMO
SIOUX CITY	IA	USN-SIDE	1975	G		Rms 108, 103, 116	2' x 4' ph ceiling tile	26 JUL 90		71580911	2% CHRY
SIOUX CITY	IA	USN-SIDE	1975	G		quarter deck 1st floor	2' x 4' birdfoot c. tile	26 JUL 90		71581214	NONE
SIOUX CITY	IA	USN-SIDE	1975	G		Rm206, 203, 214	2 ' x 4 ' ceiling tile	26 JUL 90		71581517	NONE
SIOUX CITY	IA	USN-SIDE	1975	G		2nd floor	2 ' x 4 ' ceiling tile	26 JUL 90		71581820	2% CHRY
SIOUX CITY	IA	USN-SIDE	1975	G		northwest corner roof	roofing tar	26 JUL 90		71582123	NONE
SIOUX CITY	IA	USN-SIDE	1975	G		Roof, Navy side	roof flashing	26 JUL 90		71582426	0, 0, 20% CHRY ??

1. THE FOLLOWING MN AND IOWA CENTERS HAVE HAD RELATIVELY COMPLETE ASBESTOS SAMPLING COMPLETED.

Cedar Rapids and Waterloo IA and Buffalo, Cannon Falls, International Falls, Le Sueur, New Prague, Paynesville, Walker, Winona, and Winthrop MN.

2. Below is a list of facilities which should have thorough asbestos sampling done as soon as possible to satisfy regulatory requirements and promote the safety of building occupants and maintenance crews. There is a question however on how this should be approuched at leased facilities.

CITY	ST	CONSTR CATAGORY DESCRIPTION	FACIL NUMBER	INSTAL ABBREV	YEAR BLDG BUILT	CONST CAT CODE	O W N	UOM AREA	AREAQ	UOM OTHER	OTHQ	INDOOR RANGE
AMES	IA	USARC	AM001	AMES IA		17140	USG-A	SF	20643	PN	150	X
AMES	IA	OMS	AM002	AMES IA	1979	21410	USG-A	SF	1560	VE	1	
BURLINGTON	IA	USARC	BU001	BURLINIA	1973	17140	USG-A	SF	14763	PN	150	X
BURLINGTON	IA	OMS	BU002	BURLINIA		21410	USG-A	SF	3036	VE	2	
CHEROKEE	IA	USARC	CH001	CHEROKIA	1978	17140	USG-A	SF	13163	PN	100	X
CHEROKEE	IA	OMS	CH002	CHEROKIA		21410	USG-A	SF	1560	VE	1	
COUNCIL BLUFFS	IA	USARC	CB001	COUNCIIA	1959	17140	USG-A	SF	12014	PN	100	X
COUNCIL BLUFFS	IA	OMS (NEW)	CB002	COUNCIIA		21410	USG-A	SF	5670			
COUNCIL BLUFFS	IA	STORAGE (WAS OMS)	CB015	COUNCIIA		44270	USG-A	SF	2656	VE	2	
~~CRESTON~~	IA	USARC	CS001	CRESTOIA	1963	17140	USG-A	SF	6500			
DAVENPORT	IA	USARC	DA001	DAVENPIA	1958	17140	USG-A	SF	37460	PN	600	X
DAVENPORT	IA	OMS	DA002	DAVENPIA		21410	USG-A	SF	7017	VE	2	
DAVENPORT	IA	GEN STOREHOUSE	DA015	DAVENPIA		44270	USG-A	SF	2620	PN		
DECORAH	IA	USARC	DE001	DECORAIA	1979	17140	USG-A	SF	15197	PN	200	X
DECORAH	IA	OMS	DE002	DECORAIA		21410	USG-A	SF	3966	VE	3	
DES MOINES	IA	AFA 60	LI251	FTDESMIA		21190	LEASE	SF	16658	VE		
DUBUQUE	IA	USARC/OMS	LI301	LIADUBUQ		17140	ISSANAVY	SF	21786	PN		X
FT DES MOINES	IA	USARC	00100	FTDESMIA	1975	17140	USG-A	SF	74280	PN	1000	3
FT DES MOINES	IA	AMSA 29	00101	FTDESMIA	1975	21410	USG-A	SF	13700	VE		
FT DES MOINES	IA	FE MNT SHOP	00117	FTDESMIA	1942	21410	USG-A	SF	9000	VE	4	
FT DODGE	IA	USARC	LI351	LIAFTDOD		17140	LEASE	SF	6000	PN		
GARNER	IA	USARC	GA001	GARNERIA	1959	17140	USG-A	SF	4316	PN	25	
GARNER	IA	OMS	GA002	GARNERIA		21410	USG-A	SF	1170	VE	1	
GARNER	IA	STORAGE	LI371	GARNERIA		44270	LEASE	SF	1000			
IOWA CITY	IA	USARC	IC001	IOWACIIA	1959	17140	USG-A	SF	14697	PN	150	
IOWA CITY	IA	OMS	IC002	IOWACIIA		21410	USG-A	SF	2620	VE	2	
MT PLEASANT	IA	USARC	MT001	MOUNTPIA	1962	17140	USG-A	SF	4476	PN	25	
MT PLEASANT	IA	OMS	MT002	MOUNTPIA		21410	USG-A	SF	1335	VE	1	
MUSCATINE	IA	USARC	LI501	LIAMUSCA		17140	LEASE	SF	8640	PN		
OTTUMWA	IA	USARC	LI351	LIAOTTUM		17140	LEASE	SF	12150	PN		
OTTUMWA	IA	OMS	LI552	LIAOTTUM			LEASE	SF	1944	PN		
POCAHONTAS	IA	USARC	PO001	POCAHOIA	1977	17140	USG-A	SF	13387	PN	150	X
POCAHONTAS	IA	OMS	PO002	POCAHOIA		21410	USG-A	SF	2230	VE	2	
SAC CITY	IA	USARC	SC001	SACCITIA	1976	17140	USG-A	SF	14787	PN	100	X
SAC CITY	IA	OMS	SC002	SACCITIA		21410	USG-A	SF	1419	VE	1	
SIOUX CITY	IA	USARC	SX001	SIOUXCIA	1959	17140	USG-A	SF	32360	PN	200	
SIOUX CITY	IA	AMSA 27	SX002	SIOUXCIA		21410	USG-A	SF	3850	VE	3	
WASHINGTON	IA	USARC	WS001	WASHINIA	1961	17140	USG-A	SF	16774	PN	150	X
WASHINGTON	IA	OMS	WS002	WASHINIA		21410	USG-A	SF	7330	VE	7	
WASHINGTON	IA	AMSA 30	LI581	LIAWASHI		21410	LEASE	SF	8520			
WATERLOO	IA	AMSA 28	LI601	LIAWATER		21410	LEASE	SF	4763	VE		

SUMMARY REPORT OF ASBESTOS SAMPLING, ENCAPSULATION, AND ABATEMENT STATUS AT RESERVE CENTER BUILDINGS

29 MAR 1995

CITY	ST	CONSTR CATAGORY: DESCRIPTION	FACIL NUMBER	BLDG BUILT	UOM AREA	AREAQ	ASBESTOS SURVEY	ASBESTOS SURVEY REPORT
AMES	IA	USARC	AM001		SF	20643	1 SAMPLE	PAT PECK's 1994 VISIT, NO VISIBLE FRIABLE
AMES	IA	OMS	AM002	1979	SF	1560	1987/NEG	ACM FOUND.
BURLINGTON	IA	USARC	BU001	1973	SF	14765	2 SAMPLES	POSITIVE ON ELBOW BOILER RM.
BURLINGTON	IA	OMS	BU002		SF	3036	1990&91,POS	NONE OTHERWISE DETECTED.
CEDAR RAPIDS	IA	USARC	CR001	1965	SF	34256	SAMPLED BY	BOILER ROOM ENCAP & ABATED AUG 91
CEDAR RAPIDS	IA	OMS	CR002		SF	3800	NAVY	BY MCCOY TEAM. ACM STILL ON BOILER,
CEDAR RAPIDS	IA	INFLAM MAT STHS	CR003		SF	580	CONTRACT	TANKS, ELBOWS.
CEDAR RAPIDS	IA	GEN STOREHOUSE	LI401		SF	6540		
CHEROKEE	IA	USARC	CH001	1978	SF	13165	SAMPLED	I NEED THE REPORT.
CHEROKEE	IA	OMS	CH002		SF	1560	FEB 94	
COUNCIL BLUFFS	IA	USARC	CB001	1959	SF	12014	2 SAMPLES	PAT PECK's 1994 VISIT, BLDG HAD BEEN
COUNCIL BLUFFS	IA	OMS (NEW)	CB002		SF	5670	1987	REHAB., AND NO FRIABLE ACM FOUND.
COUNCIL BLUFFS	IA	STORAGE (WAS OMS)	CB015		SF	2656		
CRESTON	IA	USARC	CS001	1963	SF	6500	1 SAMPLE, 87	NONE FOUND, NO SAMPLES, LOOKS CLEAN.
DAVENPORT	IA	USARC	DA001	1958	SF	37460	6 SAMPLES	I NEED THE REPORT.
DAVENPORT	IA	OMS	DA002		SF	7017	1994	
DAVENPORT	IA	GEN STOREHOUSE	DA015		SF	2620		
DECORAH	IA	USARC	DE001	1979	SF	15197	4 SAMPLES 199	I NEED THE REPORT.
DECORAH	IA	OMS	DE002		SF	3966	10 S. ROOF 1993	
DES MOINES	IA	AFA 60	LI251		SF	16658		
DUBUQUE	IA	USARC/OMS	LI301		SF	21786	2 SAMPL. 1988	POS ACM RESULTS DOOR, REPORT?
FT DES MOINES	IA	OFF QTRS MIL	00046	1902	SF	20944		
FT DES MOINES	IA	POST CHAPEL	00049	1902	SF	2736		
FT DES MOINES	IA	NEW USARC	00050					
FT DES MOINES	IA	NEW STORAGE	00051					
FT DES MOINES	IA	USARC 55/56	00055	1902	SF	24114		
FT DES MOINES	IA	USARC	00058	1902	SF	8434		
FT DES MOINES	IA	USARC 59/60	00059	1902	SF	27748		
FT DES MOINES	IA	GP HQ BLDG	00061	1902	SF	13874		
FT DES MOINES	IA	USARC	00062	1902	SF	13874		

SUMMARY REPORT OF ASBESTOS SAMPLING, ENCAPSULATION, AND ABATEMENT STATUS AT RESERVE CENTER BUILDINGS

29 MAR 1995

CITY	ST	CONSTR CATAGORY: DESCRIPTION	FACIL NUMBER	BLDG BUILT	UOM AREA	AREAQ	ASBESTOS SURVEY	ASBESTOS SURVEY REPORT
FT DES MOINES	IA	MEPS	00063	1902	SF	24114		
FT DES MOINES	IA	DISP	00069	1902	SF	1749		
FT DES MOINES	IA	STOREHOUSE, 68/70	00070	1902	SF	32692		
FT DES MOINES	IA	STORAGE	00072	1902	SF	1749		
FT DES MOINES	IA	STOREHOUSE, 71/73	00073	1902	SF	32692		
FT DES MOINES	IA	MNT SHP	00075	1902	SF	952		
FT DES MOINES	IA	USARC	00081	1902	SF	16346		
FT DES MOINES	IA	STOREHOUSE	00083	1902	SF	16346		
FT DES MOINES	IA	SHED	00084	1902	SF	160		
FT DES MOINES	IA	STOREHOUSE	00086	1902	SF	11055		
FT DES MOINES	IA	USARC	00100	1975	SF	74280	1 SAMPL 1987	NEG RESULT
FT DES MOINES	IA	AMSA 29	00101	1975	SF	13700	3 SAMPL 87/92	WALLBOARD CONTAINS ASBESTOS.
FT DES MOINES	IA	FE MNT SHOP	00117	1942	SF	9000		ABATED ALL KNOWN FRIABLE ACM.
FT DES MOINES	IA	STOREHOUSE	00122	1902	SF	1988		
FT DES MOINES	IA	STOREHOUSE	00123	1902	SF	3978		
FT DES MOINES	IA	OMS	00126	1902	SF	9360		
FT DES MOINES	IA	OMS	00127	1902	SF	10385		
FT DES MOINES	IA	STOREHOUSE	00133	1942	SF	160		
FT DES MOINES	IA	STOREHOUSE	00135		SF	6545		
FT DES MOINES	IA	STOREHOUSE	00137		SF	8800		
FT DES MOINES	IA	STOREHOUSE	00138		SF	4032		
FT DES MOINES	IA	STORAGE	00139		SF	13530	2 SAMP 88/ 92	POSITIVE ON ROOFING MAT.
FT DES MOINES	IA	WTR PUMP STA BD	00147		SF	900		
FT DES MOINES	IA	COMMISSARY	00308	1942	SF	4536		
FT DES MOINES	IA	READY MAL	00152		SF	946		
FT DES MOINES	IA	DINING	00309	1942	SF	4536		
FT DES MOINES	IA	USARC 50	00050		SF	46042		
FT DES MOINES	IA	USARC 51	00051		SF	14976		
FT DODGE	IA	USARC	LI351		SF	6000	1 SAMPL 87	NEG RESULTS, NO REPORT
GARNER	IA	USARC	GA001	1959	SF	4316	2 SAMPLES	POSITIVE IN FLOOR TILE.
GARNER	IA	OMS	GA002		SF	1170	1986/1994	NO REPORT
IOWA CITY	IA	USARC	IC001	1959	SF	14697	13 SAMPLES	ALL ACM IN BOILER RM ABATED.
IOWA CITY	IA	OMS	IC002		SF	2620	VAR YRS	

SUMMARY REPORT OF ASBESTOS SAMPLING, ENCAPSULATION, AND ABATEMENT STATUS AT RESERVE CENTER BUILDINGS

29 MAR 1995

CITY	ST	CONSTR CATAGORY: DESCRIPTION	FACIL NUMBER	BLDG BUILT	UOM AREA	AREAQ	ASBESTOS SURVEY	ASBESTOS SURVEY REPORT
MT PLEASANT	IA	USARC	MT001	1962	SF	4476	3 SAMPLES	POSITIVE ON ELBOWS
MT PLEASANT	IA	OMS	MT002		SF	1335	VAR YRS	NO OTHER ACM DETECTED IN CENTER OR OMS
MUSCATINE	IA	USARC	LI501		SF	8640	1 SAMPLE 87	NEG RESULTS
POCAHONTAS	IA	USARC	PO001	1977	SF	13387	5 SAMPLES	POS ON AIR COND. WRAP.
POCAHONTAS	IA	OMS	PO002		SF	2230	1985/1994	I NEED REPORT YET
SAC CITY	IA	USARC	SC001	1976	SF	14757	11 SAMPLES	POS ON TANK, VFT, AND FLOOR TILE.
SAC CITY	IA	OMS	SC002		SF	1419	1994&VAR	I NEED REPORT YET
SIOUX CITY	IA	USARC	SX001	1959	SF	32360	NAVY +	POS. ON BOILER RM ITEMS & FLOOR TILE.
SIOUX CITY	IA	AMSA 27	SX002		SF	3850	OTHERS	I NEED REPORT YET
WASHINGTON	IA	USARC	WS001	1961	SF	16774	12 SAMPLES	SOME POSITIVE RESULTS.
WASHINGTON	IA	OMS	WS002		SF	7330	1990/1993	POS. RESULTS IN BAY AREA.
WASHINGTON	IA	AMSA 30	LI581		SF	8520		NO ACM DETECT AMSA FURNACE.
WATERLOO	IA	USARC	WT001	1959	SF	40134	17 SAMPLES	ABATED BOILER RM IN 1991, SUPPLY RM ENCAP.
WATERLOO	IA	OMS	WT002		SF	6976	1986/90/94	ACM STILL FOUND ON PIPES.
WATERLOO	IA	AMSA 28	LI601		SF	4763		
						904476		

R&U TEAM	CITY	ST	CONSTR CATAGORY DESCRIPTION	FACIL NUMBER	OWN	CMD	UOM ID	AREA	AREAQ
63	AMES	IA	USARC	PAM001	G	88	ZQ	SF	20643
63	AMES	IA	OMS	PAM002	G		ZQ	SF	1560
63	BURLINGTON	IA	USARC	PBU001	G	88	WB	SF	14765
63	BURLINGTON	IA	OMS	PBU002	G		WB	SF	3036
63	CEDAR RAPIDS	IA	USARC	PCR001	G	88	THUB	SF	34256
63	CEDAR RAPIDS	IA	OMS	PCR002	G		UB	SF	3800
63	CEDAR RAPIDS	IA	INFLAM MAT STHS	PCR003	G		UB		
63	CEDAR RAPIDS	IA	GEN STOREHOUSE	TLI401	L		UB	SF	6540
63	CHEROKEE	IA	USARC	PCH001	G	88	THVM	SF	13165
63	CHEROKEE	IA	OMS	PCH002	G		VM	SF	1560
63	COUNCIL BLUFFS	IA	USARC	PCB001	G	425	YB	SF	12014
63	COUNCIL BLUFFS	IA	OMS	PCB002	G		YB	SF	2656
63	COUNCIL BLUFFS	IA	USARC	TLI151	L			SF	17430
63	CRESTON	IA	USARC	PCS001	G	88	ZH	SF	6500
63	DAVENPORT	IA	USARC	PDA001	G	88	UD	SF	37460
63	DAVENPORT	IA	OMS	PDA002	G		UD	SF	7017
63	DAVENPORT	IA	GEN STOREHOUSE	PDA015	G		UD	SF	2620
64	DECORAH	IA	USARC	PDE001	G	88	WJ	SF	15197
64	DECORAH	IA	OMS	PDE002	G		WJ	SF	3966
63	DES MOINES	IA	AMSA 60	TLI251	L	86	UQ	SF	16658
63	DUBUQUE	IA	USARC	TLI301	IS		WK	SF	21786
63	FT DES MOINES	IA	POST CHAPEL	P00049	G		ZB	SF	2736
63	FT DES MOINES	IA	USARC	P00058	G	88	ZZ	SF	8434
63	FT DES MOINES	IA	GP HQ BLDG	P00061	G		ZZ	SF	13874
63	FT DES MOINES	IA	USARC	P00062	G	88	ZZ	SF	13874
63	FT DES MOINES	IA	MEPS	P00063	G		RT	SF	24114
63	FT DES MOINES	IA	DISP	P00069	G		ZZ	SF	1749
63	FT DES MOINES	IA	STORAGE	P00072	G		ZZ	SF	1749
63	FT DES MOINES	IA	MNT SHP	P00075	G		ZZ	SF	952
63	FT DES MOINES	IA	USARC	P00081	G	88	ZC	SF	16346
63	FT DES MOINES	IA	STOREHOUSE	P00083	G		ZC	SF	16346
63	FT DES MOINES	IA	SHED	P00084	G		ZZ	SF	160
63	FT DES MOINES	IA	STOREHOUSE	P00086	G		ZZ	SF	11055
63	FT DES MOINES	IA	USARC	P00100	G	103	ZD	SF	74280
63	FT DES MOINES	IA	AMSA	P00101	G		ZE	SF	13700
63	FT DES MOINES	IA	EXCH BRANCH	P00106	G		RP	SF	2795
63	FT DES MOINES	IA	FE MNT SHOP	P00117	G		ZF	SF	9000
63	FT DES MOINES	IA	STOREHOUSE	P00122	G		ZZ	SF	1988
63	FT DES MOINES	IA	STOREHOUSE	P00123	G		RP	SF	3978
63	FT DES MOINES	IA	OMS	P00126	G		ZZ	SF	9360
63	FT DES MOINES	IA	OMS	P00127	G		ZZ	SF	10385
63	FT DES MOINES	IA	STOREHOUSE	P00133	G		ZZ	SF	160
63	FT DES MOINES	IA	STOREHOUSE	P00135	G		ZZ	SF	6545
63	FT DES MOINES	IA	STOREHOUSE	P00137	G		ZZ	SF	8800
63	FT DES MOINES	IA	STOREHOUSE	P00138	G		ZZ	SF	4032
63	FT DES MOINES	IA	STORAGE	P00139	G		ZZ	SF	13530
63	FT DES MOINES	IA	DINING	P00307	G		ZZ	SF	4536
63	FT DES MOINES	IA	COMMISSARY	P00308	G		ZZ	SF	4536
63	FT DES MOINES	IA	DINING	P00309	G		ZZ	SF	4536
63	FT DES MOINES	IA	USARC	P55056	G		ZZ	SF	24114
63	FT DES MOINES	IA	USARC	P59060	G		ZZ	SF	27748
63	FT DES MOINES	IA	STOREHOUSE	P68070	G		ZZ	SF	32692
63	FT DES MOINES	IA	STOREHOUSE	P71073	G		ZZ	SF	32692
63	FT DODGE	IA	USARC	TLI351	L	88	ZJ	SF	6000
63	GARNER	IA	USARC	PGA001	G	88	VB	SF	4316
63	GARNER	IA	OMS	PGA002	G		VB	SF	1170

Sunny Dm 90

Bailey Rm Dome 90

25 MAN / 4316 ft

25 MAN

ANNEX A (FACILITIES MASTER LIST) TO SECTION XIII (INSTALLATION BASE DATA) TO OPFD RESOURCE M

R&U TEAM	CITY	ST	CONSTR CATAGORY DESCRIPTION	FACIL NUMBER	O W N	C M D	CMDUOM ID	AREA	AREAQ	
63	GARNER	IA	STORAGE	TLI371	L		VB	SF	1000	
63	IOWA CITY	IA	USARC	PIC001	G	88	VC	SF	14697	Boiler Rm Done 91
63	IOWA CITY	IA	OMS	PIC002	G		VC	SF	2620	
63	MT PLEASANT	IA	USARC	PMT001	G	88	ZX	SF	4476	Survey Don 90
63	MT PLEASANT	IA	OMS	PMT002	G		ZX	SF	1335	
63	MUSCATINE	IA	USARC	TLI501	L	88	WL	SF	8640	
63	OTTUMWA	IA	USARC	TLI551	L	88	VY	SF	14094	
63	POCAHONTAS	IA	USARC	PPO001	G	88	VZ	SF	13387	
63	POCAHONTAS	IA	OMS	PPO002	G		VZ	SF	2230	
63	SAC CITY	IA	USARC	PSC001	G	88	VN	SF	14757	
63	SAC CITY	IA	OMS	PSC002	G		VN	SF	1419	
63	SIOUX CITY	IA	AMSA *92 MCAR*		G			SF	—	
63	SIOUX CITY	IA	RC/OMS *92 MCAR*		G			SF	—	
63	SIOUX CITY	IA	USARC	PSX001	G	88	VD	SF	32360	
63	SIOUX CITY	IA	AMSA	PSX002	G		VD	SF	3850	
63	SIOUX CITY	IA	ANTENNA TOWER	PSX015	G		VD	EA	—	
63	WASHINGTON	IA	USARC	PWS001	G	88	ZG	SF	16774	Survey Don 90
63	WASHINGTON	IA	AMSA	PWS002	G		ZG	SF	7330	
63	WASHINGTON	IA	SHOP30	TLI581	L		ZG	SF	8520	
63	WATERLOO	IA	RC/OMS *93 MCAR*		G			SF	—	
63	WATERLOO	IA	AMSA *93 MCAR*		G	88		SF	—	
63	WATERLOO	IA	USARC	PWT001	G		UG	SF	40134	Boiler Rm Done 91
63	WATERLOO	IA	OMS	PWT002	G		UG	SF	6976	
63	WATERLOO	IA	AMSA	TLI601	L		UO	SF	4763	

* Have money for MI, IND, ITL, WI

88TH ARCOM

Roseau
South International Falls
Walker
Duluth
Grainard
Fergus Falls
St. Cloud
Cambridge
St. Joseph
Cold Spring
Paynesville
Willmar
Buffalo
New Brighton
St. Paul
Ft. Snelling
Winthrop
New Prague
Cannon Falls
Wabasha
Marshall
Mankato
Winona
Rochester
Worthington

86TH ARCOM

Hurley(2)
Luxemburg
Wausau
Eau Claire
Chippewa Falls
Ellsworth
Junction City
De Pere
Bay
Kaukauna
Appleton
Oshkosh
Sparta
Fon du lac
Sheboygan
Beaver Dam
Madison
Pewaukee
Waukesha
Milwaukee(6)
West Allis
Racine
Dodgeville
Waukegan
Lake Bluff
Ft. Sheridan(4)
Glenview NAS(3)
Rockford(2)
Arlington Heights(2)
Rosemont
Mayewood
Forest
Chicago(4)
Savanna
Aurora(2)
Orland Park(2)
Joliet
Harvey
Homewood
Peru
Kankakee
Elgin
Galesburg
Canton
Bloomington
Danville
Urbana
Decatur
Springfield
Quincy
Wood River
Granite City(2)
East St. Louis
Centralia
Belleville
Scott AFB
Fairfield
Marion

123RD ARCOM

Traverse City
Bay City
Bad Axe
Muskegon(2)
Saginaw(2)
Grand Rapids
Flint
Selfridge ANG Base(4)
Lansing(2)
Pontiac
Southfield
Livonia
Romulus
Battle Creek(2)
Fraser
Detroit
Kalamazoo
Jackson
Ann Arbor
Inkster
Niles

83RD ARCOM

Cedar
Garner
Cherokee
Pocahontas
Sioux City(2)
Fort Dodge
Iowa City
Waterloo
Dubuque
Ames
Cedar Rapids
Des Moines(4)
Iowa City
Council Bluffs
Muscatine
Washington
Creston
Ottumwa
Mt. Pleasant
Washington

South Bend(2)
Gary
Lake Station
Kingsbury
N. Judson
Fort Wayne
Lafayette
Muncie
Indianapolis
Ft. San Harmon(2)
Bloomington
Terre Haute
Camp Atterbury (Edinburgh)(4)
Bloomington
Scottsburg
Jasper
Jeffersonville

88TH ARCOM
86TH ARCOM
123RD ARCOM
83RD ARCOM
416TH ENCOM
425TH TRANS
94TH DIV
55TH DIV
70TH DIV
300TH MPC
103 COSCOM
97TH
99TH
102ND

IOWA ASBESTOS RESULTS

03-Nov-97

City	St	Facility	Yr Blt	O/L	Bld #	Rooms	Sampled Item(s)	Condition	Sq Ft	Ln Ft	Date	ASB #		Results
AMES	IA	USARC	1979	G	center roof		roof/flashing sample		120	460	15-May-94		A-1	20% CHRY
CEDAR RAPID	IA	USARC	1965	G			concrete block				01-Jan-90			Pos - *Navy Contct
CEDAR RAPID	IA	USARC	1965	G			vinyl floor tile				01-Jan-90			Pos - *Navy Contct
CEDAR RAPID	IA	USARC	1965	G			breeching				01-Jan-90			*Navy Contct
CEDAR RAPID	IA	USARC	1965	G			tile grout				01-Jan-90			Pos - *Navy Contct
CEDAR RAPID	IA	USARC	1965	G			roof flashing				01-Jan-90			*Navy Contct
CEDAR RAPID	IA	USARC	1965	G			duct				04-Dec-90	191	CR-1	20-30% CHRY
CEDAR RAPID	IA	USARC	1965	G		boiler rm	mudded joint packings on ns pc				16-Apr-87	1987		65% CHRY
CEDAR RAPID	IA	USARC	1965	G		boiler rm	duct insl				08-Aug-91	2191		<0.01 F/CC,*Navy Contct
CEDAR RAPID	IA	USARC	1965	G		boiler rm	vibration joint cloth				08-Aug-91	2291		<0.01 F/CC, Pos. - *Navy Contct
CEDAR RAPID	IA	USARC	1965	G			pipe				04-Dec-90	291	CR-2	5-10% CHRY
CHEROKEE	IA	USARC	1978	G		furnace rm	furnace/duct insl				25-Feb-87			NONE
CHEROKEE	IA	OMS	1978	G		roofing	roof		1548		21-Oct-93	1093	46117	NONE
CHEROKEE	IA	OMS		G		flashing	roof			65	21-Oct-93	1193	46118	15% CHRY
CHEROKEE	IA	OMS		G		flashing	roof			158	21-Oct-93	1293	46119	< 1% CHRY
CHEROKEE	IA	USARC	1978	G		roof	roofing		8285		21-Oct-93	193	46108	<1% CHRY
CHEROKEE	IA	USARC	1978	G		roof	roofing		5120		21-Oct-93	293	46109	NONE
CHEROKEE	IA	USARC	1978	G		roofing	roof		1515		21-Oct-93	393	46110	<1% CHRY
CHEROKEE	IA		1978	G		rm 107	pipe, wht			100	01-Feb-94	4294		NONE
CHEROKEE	IA		1978	G		rifle range	ceiling tile, wht		200		01-Feb-94	4394		NONE
CHEROKEE	IA		1978	G		boiler rm	spray on ceiling, gry		500		01-Feb-94	4494		NONE
CHEROKEE	IA		1978	G		boiler rm	tank, wht		80		01-Feb-94	4594		<1% CHRY
CHEROKEE	IA		1978	G		boiler rm	header, wht		10		01-Feb-94	4694		<1% CHRY

City	St	Facility	Yr Blt	O/L	Bld #	Rooms	Sampled Item(s)	Condition	Sq Ft	Ln Ft	Date	ASB #	Alternate	Results
CHEROKEE	IA		1978	G		boiler rm	header pipe collar, wht		5		01-Feb-94	4794		NONE
CHEROKEE	IA		1978	G		office	vinyl tile, wht		1000		01-Feb-94	4894		<1% CHRY
CHEROKEE	IA	USARC	1978	G		flashing	roofing			326	21-Oct-93	493	46111	NONE
CHEROKEE	IA		1978	G		hall	ceiling tile, wht		1000		01-Feb-94	4994		NONE
CHEROKEE	IA	USARC	1978	G		flashing	roofing			132	21-Oct-93	593	46112	NONE
CHEROKEE	IA	USARC	1978	G		flashing	roofing			117	21-Oct-93	693	46113	15% CHRY
CHEROKEE	IA	USARC	1978	G		flashing	roof			101	21-Oct-93	793	46114	15% CHRY
CHEROKEE	IA	USARC	1978	G		flashing	roof			288	21-Oct-93	893	46115	10% CHRY
CHEROKEE	IA	USARC	1978	G		flashing	roof			100	21-Oct-93	993	46116	15% CHRY
DAVENPORT	IA	USARC	1958	G		facility mgr office	steam pipe east wall				17-Mar-87	2087		30% CHRY, 40% AMO
DAVENPORT	IA	USARC	1958	G		boiler rm	hot water tank				17-Mar-87	2187		4% CHRY
DAVENPORT	IA	USARC	1958	G	169	office	9" red brick tile		280		14-Feb-94	5694		4% CHRY
DAVENPORT	IA	USARC	1958	G	161	old boiler rm, store rm	brown tile		440		14-Feb-94	5794		<1%
DAVENPORT	IA	USARC	1958	G	166	meeting rm	gray tile		1800		14-Feb-94	5894		5% CHRY
DAVENPORT	IA	USARC	1958	G	165	added tile	12" black tile		40		14-Feb-94	5994		NONE
DAVENPORT	IA	USARC	1958	G	165	old	9" old blue tile		800		14-Feb-94	6094		7% CHRY
DAVENPORT	IA	USARC	1958	G	161	pipe above ceiling	white powder			200	14-Feb-94	6194		30% CHRY, 5% AMO
DECORAH	IA	OMS	1979	G		flashing	flashing			266	19-Oct-93	1093	46106	15% CHRY
DECORAH	IA	OMS	1979	G		flashing	flashing			88	19-Oct-93	1193	46107	14% CHRY
DECORAH	IA	USARC	1979	G		roof	roofing		6160		19-Oct-93	193	46097	<1% CHRY
DECORAH	IA	USARC	1979	G		roof	roofing		6880		19-Oct-93	293	46098	2% CHRY
DECORAH	IA	USARC	1979	G		hall	white ceiling tile 2'x2'		1000		31-Jan-94	3094		NONE
DECORAH	IA	USARC	1979	G		women's rm	white vinyl tile 1'x1'		200		31-Jan-94	3194		2% CHRY
DECORAH	IA	USARC	1979	G		drill hall	vinyl base board, brwn			400	31-Jan-94	3294		NONE
DECORAH	IA	USARC	1979	G		roof	roofing		1610		19-Oct-93	394	46099	<1% CHRY

City	St	Facility	Yr Blt	O/L	Bld #	Rooms	Sampled Item(s)	Condition	Sq Ft	Ln Ft	Date	ASB #	Alternate	Results
DECORAH	IA	USARC	1979	G			flashing			316	19-Oct-93	493	46100	15% CHRY
DECORAH	IA	USARC	1979	G			flashing			171	19-Oct-93	593	46101	15% CHRY
DECORAH	IA	USARC	1979	G			flashing			365	19-Oct-93	693	46102	10% CHRY
DECORAH	IA	USARC	1979	G			flashing			258	19-Oct-93	793	46103	12% CHRY
DECORAH	IA	USARC	1979	G			flashing			280	19-Oct-93	893	46104	2% CHRY
DECORAH	IA	OMS	1979	G		roof	roofing		2196		19-Oct-93	993	46105	< 1% CHRY
DUBUQUE	IA	USARC		IS			door insl				28-Jun-88	189		35-40% AMO
DUBUQUE	IA	USARC		IS			door insl				08-Jun-88	2288		10% CHRY, 30% AMO
FORT DESMO	IA				100	lower roof	roofing		28300		22-Apr-97	12797		NONE
FORT DESMO	IA				100	lower roof	flashing			2600	22-Apr-97	12897		NONE
FORT DESMO	IA	225 EAPR	1975	G	100	boiler rm	steam pipe insl				03-Mar-87	1787		NONE
FORT DESMO	IA		1902	G	139	roof	roofing material				01-May-88	2188		50% CHRY
FORT DESMO	IA	USARC				training	new rm vinyl tile. lt brwn		100		03-Feb-94	3394		4% CHRY
FORT DESMO	IA	USARC				training	new rm vinyl tile, brwn		100		03-Feb-94	3494		<1% CHRY
FORT DESMO	IA	USARC				training	furnace duct, wht		160		03-Feb-94	3594		NONE
FORT DESMO	IA	USARC				training	furnace rm pipe, wht		180		03-Feb-94	3694		NONE
FORT DESMO	IA	USARC				training	furnace rm elbow, wht				03-Feb-94	3794		NONE
FORT DESMO	IA	USARC				meeting	hall, 9", grn		200		03-Feb-94	3894		7% CHRY
FORT DESMO	IA	USARC				office	west, 9", brwn		200		02-Mar-94	3994		7% CHRY
FORT DESMO	IA	USARC				office	no asphalt, 9", lt. brwn		100		03-Feb-94	4094		7% CHRY
FORT DESMO	IA	USARC				office	asph. scraped from tile, blk		100		03-Feb-94	4194		10% CHRY
FORT DESMO	IA			G			construct trench, wht			120	25-Aug-93	50393		20% CHRY, 45% AMO
FORT DESMO	IA			G			construct trench				25-Aug-93	50493		<0.002 F/CC
FORT DESMO	IA			G	101	battery rm	wallboard whole bldg				02-Apr-92	5892		40 % CHRY
FORT DESMO	IA			G	139						01-Jan-92	5992		NONE

City	St	Facility	Yr Blt	O/L	Bld #	Rooms	Sampled Item(s)	Condition	Sq Ft	Ln Ft	Date	ASB #	Alternate	Results
FORT DESMO	IA			G	139		bulk				03-Jul-90	6790		30% CHRY
FORT DESMO	IA			G		glove bag/ enclosure					13-Sep-90	7190		<0.002 F/CC
FORT DESMO	IA			G		glove bag/enclosure	general area				13-Sep-90	7290		0.017 F/CC
FORT DESMO	IA			G		tank 63t					05-Oct-90	7590		12% CHRY
FORT DESMO	IA			G		elbow 63e					05-Oct-90	7690		2% CHRY, 2% AMO
FORT DODGE	IA	USARC		L		furnace rm	furnace/duct insl				23-Feb-87			NONE
FORT DODGE	IA	USARC				office	ceiling tile, wht/yllw		100		01-Feb-94	5094		NONE
GARNER	IA	USARC	1959	G		furnace rm	furnace/duct insl				10-Mar-86	1086		NONE
GARNER	IA	USARC				box, new	vinyl tile, lt. brwn		100		31-Jan-94	3394		4% CHRY
GARNER	IA	USARC				box, new	tile, brwn		100		31-Jan-94	3494		NONE
GARNER	IA	USARC				furnace rm	duct, wht		160		31-Jan-94	3594		NONE
GARNER	IA	USARC				furnace rm	pipe, wht		180		31-Jan-94	3694		NONE
GARNER	IA	USARC				furnace rm	elbow, wht			50	31-Jan-94	3794		NONE
GARNER	IA	USARC				meeting rm, hall	9" tile, grn		200		31-Jan-94	3894		7% CHRY
GARNER	IA	USARC				office, west	9" tile, brwn		200		31-Jan-94	3994		7% CHRY
GARNER	IA	USARC				office, no asphalt	9" tile, lt. brwn		100		31-Jan-94	4094		7% CHRY
GARNER	IA	USARC				office, scraped from tile	asphalt, blk		100		31-Jan-94	4194		10% CHRY
GARNER	IA	USARC	1959	G		floor tile	lt. brn				08-Oct-93	51493		15% CHRY
GARNER	IA			G		floor tile	dk. brn				08-Oct-93	51593		15% CHRY
IOWA CITY	IA	USARC	1959	G		abat. since 13 march 86								
IOWA CITY	IA	USARC	1959	G			elbows				17-Jul-91		137545	NONE
IOWA CITY	IA	USARC	1959	G		furnace rm	boiler insl				13-Mar-86	1186		41% CHRY
IOWA CITY	IA	USARC	1959	G		garage area	pipe insl				16-Apr-87	1687		60% CHRY
IOWA CITY	IA	USARC	1959	G		hallway	radiator, wrap, wht pwdr				15-Jun-93	28093		2% CHRY
IOWA CITY	IA		1959	G			boiler				04-Dec-90	391		30-40% CHRY

City	St	Facility	Yr Blt	O/L	Bld #	Rooms	Sampled Item(s)	Condition	Sq Ft	Ln Ft	Date	ASB #	Alternate	Results
IOWA CITY	IA	USARC	1959	G		boiler brick					11-Jun-91	B1		NONE
IOWA CITY	IA	USARC	1959	G		boiler door					11-Jun-91	B2		1-5% CHRY
IOWA CITY	IA	USARC	1959	G		boiler side					11-Jun-91	B3		NONE
IOWA CITY	IA	USARC	1959	G		outside	air monitoring	ga			11-Jun-91	IC1		0.02 F/CC
IOWA CITY	IA	USARC	1959	G		filters on air	air monitoring	ga			12-Jun-91	IC2		NONE
IOWA CITY	IA	USARC	1959	G		boiler rm clearance	air monitoring	ga			12-Jun-91	IC3		0.003 F/CC
MIDDLETOWN	IA	USARC	1973	G		boiler	elbow, orange				20-Mar-90	891	M-1	40-50% CHRY
MT PLEASAN	IA		1962	G		boiler					20-Mar-90	991		5% CROC
POCAHONTA	IA	USARC	1977	G		boiler rm	ceiling material				01-Jul-85	485		NONE
POCAHONTA	IA	USARC	1977	G		boiler rm, oms office	ceilings, gry		500		16-Feb-94	7094		5% CHRY
POCAHONTA	IA	USARC	1977	G		boiler rm	ac wrap, piping, gry			10	16-Feb-94	7194		NONE
POCAHONTA	IA	USARC	1977	G		boiler rm	furnace/duct insl				27-Aug-85	885		NONE
SAC CITY	IA	USARC	1976	G		rm 9, boiler rm	tank, wht		40		01-Feb-94	5194		NONE
SAC CITY	IA	USARC	1976	G		rm 9, boiler rm	tank, wht		12		01-Feb-94	5294		20% CHRY
SAC CITY	IA	USARC	1976	G		rm 15 door by hall	12" tile, brwn		1126		01-Feb-94	5394		8% CHRY
SAC CITY	IA	USARC	1976	G		rm 9 boiler rm	tank, wht		5		01-Feb-94	5494		NONE
SAC CITY	IA	USARC	1976	G		rm 14 main hall	ceiling tile, wht		2820		01-Feb-94	5594		NONE
SIOUX CITY	IA	USN-SIDE	1975	G		1st & 2nd floor	cinder block				26-Jul-90			5% to 10% assumed PER CONT
SIOUX CITY	IA	USN-SIDE	1975	G		2nd floor	rubberized vinyl floor				26-Jul-90			15% assumed PER CONTRACT
SIOUX CITY	IA	USN-SIDE	1975	G		2nd floor	tile grout				26-Jul-90			15% assumedPER CONTRACT
SIOUX CITY	IA	USN-SIDE	1975	G		boiler rm	boiler vibr joint cloth				26-Jul-90			assumed 70% PER CONTRACT
SIOUX CITY	IA	USN-SIDE	1975	G		2nd floor	1ft x 1ft vinyl flooring				26-Jul-90			21% assumed PER CONTRACT
SIOUX CITY	IA	USN-SIDE	1975	G		1st & 2nd floor	vft mastic				26-Jul-90			15% assumed PER CONTRACT
SIOUX CITY	IA	USN-SIDE	1975	G		1st floor	1x1 vft vinyl f. tile				26-Jul-90			21% assumed PER CONTRACT
SIOUX CITY	IA	USN-SIDE	1975	G		drill hall, 1st floor	hot w. line abv rm 122				26-Jul-90			NONE

City	St	Facility	Yr Blt	O/L	Bld #	Rooms	Sampled Item(s)	Condition	Sq Ft	Ln Ft	Date	ASB #	Alternate	Results
SIOUX CITY	IA	USN-SIDE	1975	G		1st &2nd floor	cinder blk mortar				26-Jul-90			10% assumed PER CONTRACT
SIOUX CITY	IA	USN-SIDE	1975	G		2nd floor	basebd mastic				26-Jul-90			15% assumed PER CONTRACT
SIOUX CITY	IA	USARC			maint.	roof	roofing		3850		22-Apr-97	12597		NONE
SIOUX CITY	IA	USARC			maint.	flashing	flashing			300	22-Apr-97	12697		NONE
SIOUX CITY	IA	USARC	1959	G		boiler rm	hot h2o heater				16-Apr-87	1587		15% CHRY
SIOUX CITY	IA	USARC	1959	G		rm 120, boiler rm	boiler tank h2o, wht		100		15-Feb-94	6294		10% CHRY, 25% AMO
SIOUX CITY	IA	USARC	1959	G		rm 120, boiler rm	boiler tank expansion, wht		120		15-Feb-94	6394		15% CHRY, 20% AMO
SIOUX CITY	IA	USARC	1959	G		rm 120, boiler rm	boiler elbow, tan			20	15-Feb-94	6494		15% CHRY, 4% AMO
SIOUX CITY	IA	USARC	1959	G		rm 120, boiler rm	city h2o. gry			10	15-Feb-94	6594		<1% CHRY, <1% AMO
SIOUX CITY	IA	USARC	1959	G		rm 114, drill hall	elbow, gry			20	15-Feb-94	6694		NONE
SIOUX CITY	IA	USARC	1959	G		rm 122, hall	brick tile, red		1000		15-Feb-94	6794		5% CHRY
SIOUX CITY	IA	USARC	1959	G		rm 202. ofc	brown tile		1000		15-Feb-94	6894		5% CHRY
SIOUX CITY	IA	USARC	1959	G		rm 202, ofc	tan tile		1000		15-Feb-94	6994		6% CHRY
SIOUX CITY	IA	USN-SIDE	1975	G		boiler rm, navy side	breaching e. side 12"od				26-Jul-90	7158002		Average 13% CHRY
SIOUX CITY	IA	USN-SIDE	1975	G		boiler rm, navy side	hot h2o line west wall				26-Jul-90	7158035		NONE
SIOUX CITY	IA	USN-SIDE	1975	G		rms 108, 103, 116	2' x 4' ph ceiling tile				26-Jul-90	7158091		2% CHRY
SIOUX CITY	IA	USN-SIDE	1975	G		quarter deck 1st floor	2' x 4' birdfoot c. tile				26-Jul-90	7158121		NONE
SIOUX CITY	IA	USN-SIDE	1975	G		rm206, 203, 214	2 ' x 4 ' ceiling tile				26-Jul-90	7158151		NONE
SIOUX CITY	IA	USN-SIDE	1975	G		2nd floor	2 ' x 4 ' ceiling tile				26-Jul-90	7158182		2% CHRY
SIOUX CITY	IA	USN-SIDE	1975	G		nw corner roof	roofing tar				26-Jul-90	7158212		NONE
SIOUX CITY	IA	USN-SIDE	1975	G		roof, navy side	roof flashing				26-Jul-90	7158242		0, 0, 20% CHRY ??
SIOUX CITY	IA	USN-SIDE	1975	G		rm 215, at ahu	air handler unit				26-Jul-90	7158272		NONE
WASHINGTON	IA	USARC	1961	G						836	28-Apr-93		43449	12% CHRY
WASHINGTON	IA	OMS	1961	G			bay area			488	28-Apr-93		43448	NONE
WASHINGTON	IA	USARC	1961	G					11487		28-Apr-93		43447	2% CHRY

City	St	Facility	Yr Blt	O/L	Bld #	Rooms	Sampled Item(s)	Condition	Sq Ft	Ln Ft	Date	ASB #	Alternate	Results
WASHINGTON	IA	OMS	1961	G			bay area		112		28-Apr-93		43451	30% CHRY
WASHINGTON	IA	OLD OMS	1961	G					1316		28-Apr-93		43452	2% CHRY
WASHINGTON	IA	OMS	1961	G			bay area		5930		28-Apr-93		43446	2% CHRY
WASHINGTON	IA	USARC	1961	G					160		28-Apr-93		43450	30% CHRY
WASHINGTON	IA		1961			boiler					20-Mar-91	1091		NONE
WASHINGTON	IA		1961			boiler					20-Mar-91	1191		NONE
WATERLOO	IA						air monitoring				05-Aug-91		139807	<0.004 F/CC
WATERLOO	IA		1959				air monitoring				22-Jul-91		137762	<0.002 F/CC
WATERLOO	IA	Navyside	1959			floors 12"	blue tile		100		28-Mar-94	12794		NONE
WATERLOO	IA	USARC	1959	G		rm 107	wall				01-Mar-86	1286		9% CHRY
WATERLOO	IA	Navyside	1959			floors 9"	tan tile		1400		28-Mar-94	12894		3% CHRY
WATERLOO	IA	USARC	1959	G		hallway by 111	heater pipe				01-Mar-86	1386		NONE
WATERLOO	IA	USARC	1959	G		nw corner	pipe insl				01-Mar-86	1486		12% AMO, 2% CROC
WATERLOO	IA	USARC	1959	G		boiler rm	boiler insl				01-Mar-86	1586		37% CHRY, 7% AMO
WATERLOO	IA	USARC	1959	G		a.c.	air handler filler grill				01-Mar-86	1686		NONE
WATERLOO	IA	USARC	1959	G		boiler rm	pipe insl				01-Mar-86	1786		1% CHRY, 19% AMO
WATERLOO	IA	USARC	1959	G		rm 107	duct dust				01-Mar-86	1886		4% CHRY
WATERLOO	IA	USARC	1959	G		stairs	1st floor pipe, wht			100	21-Jan-94	2894		5% CHRY, 35% AMO
WATERLOO	IA	USARC	1959	G		boiler	basemnt, wht		200		21-Jan-94	2994		5% AMO
WATERLOO	IA	USARC					duct, wht				04-Feb-91	491		10-20% CHRY
WATERLOO	IA	USARC					boiler, off wht				04-Feb-91	591		10% CHRY, 20% AMO
WATERLOO	IA	USARC					pipe, off wht				04-Feb-91	691		NONE

AIR PERMIT EXEMPTION

5555 Glenwood Hills Parkway, SE, Post Office Box 874, Grand Rapids, Michigan 49588-0874

March 1, 1996

CDR, HQ 89th RSC
USAR Medical Training Center
ATTN: Maria Lehner
6511 Chaffee Road
Des Moines, IA 50315-6308

Dear Ms. Lehner:

EARTH TECH, Inc. was retained by Fort McCoy to assist Environmental Protection Specialists at Fort McCoy with the air emission inventories required of US Army Reserve Centers (USARC) located within the state of Iowa. An air emission inventory was necessary to determine whether the Middletown USARC is required to obtain either a Title V operating permit under the Iowa Title V operating permit program or an Iowa voluntary operating permit. Additionally, the emission inventory was used to determine if any state or county air permits are required.

Telephone
616.942.9600
Facsimile
616.942.6499

During the week ending November 4, 1995, EARTH TECH representative, Brandon Mieras, contacted the Middletown USARC facility manager, Mr. Richard Hester to conduct and air emission inventory. These contacts were made via telephone calls. The telephone survey was conducted to determine the possible sources of air emissions existing at the Middletown USARC.

It is EARTH TECH's understanding that the Middletown USARC is a government-owned facility administered and controlled by the 89th Regional Support Command. The Middletown USARC is located at 17879 Highway 79, Middletown, IA 52638. The facility is comprised of two buildings that are being utilized for administrative and vehicle maintenance activities. Based on the survey conducted, the following possible emission sources were identified:

- One natural gas-fired boiler with a 1.60 MMBtu/hr rating;
- Three natural gas-fired Rezner heaters, each with a 0.125 MMBtu/hr rating;
- A five-point firing range; and
- An Organizational Maintenance Shop.

EARTH TECH has completed the emission inventory based upon information provided by the facility. Based upon the outcome of this study, it appears that potential emissions are

below applicable major source thresholds. Therefore, the Middletown USARC is not required to obtain either a Title V operating permit or a voluntary operating permit. Additionally, no state air permits are required.

Prior to any significant modifications to existing emission sources or addition of new sources, the Middletown USARC should determine how such changes may affect permitting requirements. The Middletown USARC should also maintain records of material and fuel usage.

Additional data regarding the emission inventory survey and emission calculations can be obtained from Fort McCoy Environmental Protection Specialist, Ms. Susan Herzog-Blumer, at (608) 388-4791, or EARTH TECH Project Manager, Ms. Amy Dean, at (616) 940-4439.

Sincerely,

EARTH TECH, INC.
Air Quality Services

Amy L. Dean
Project Air Quality Scientist

IA001

STATE OF IOWA

TERRY E. BRANSTAD, GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
LARRY J. WILSON, DIRECTOR

March 25, 1997

RECEIVED
MAR 31 1997

EARTH TECH
800 Oak Ridge Turnpike
Suite C-100
Oak Ridge, Tennessee 37830

ATTN: Michael Blackwell

RE: Exemption determination of air sources at U.S. Army 89th Regional Support Command facilities located units in: Garner, Waterloo (2), Washington (2), Sioux City, Sac City, Pocahontas, Muscatine, Mount Pleasant, Iowa City, Fort Dodge, Dubuque, Decorah, Davenport, Creston, Council Bluffs, Cherokee, Ames, Middletown

Dear Mr. Blackwell:

I have reviewed your evaluation of the air contaminant sources at 20 reserve centers and maintenance support units in Iowa. Based on this information these sources are exempt from the air construction permitting requirements and operating permit regulations.

If you have any questions, you may contact me at the address or telephone numbers listed below.

Sincerely,

Clark W. Ott

Clark W. Ott
Environmental Specialist - Compliance Assistance Group
Air Quality Bureau
515-281-4899

cc: FO 1-6, w/ attachments

1994 ECAS/ 2001 E2FA

ENVIRONMENTAL COMPLIANCE ASSESSMENT

FOR THE

Burlington Memorial USAR Center

Middletown, IA

INSTALLATION NUMBER: IA019

28 November 2001

PREPARED BY:

ST LOUIS FACILITIES ENGINEER TEAM

FACILITIES ENGINEER CENTER - SOUTHWEST

ENCLOSURE 4

DRAFT

ENCLOSURE 4 – ENVIRONMENTAL COMPLIANCE ASSESSMENT

TABLE OF CONTENTS

SECTION	DESCRIPTION
1	EXECUTIVE SUMMARY
2	INSTALLATION/ASSESSMENT SCREEN
3	SUMMARY OF FINDINGS
4	FINDINGS

SECTION 1 – ENVIRONMENTAL COMPLIANCE ASSESSMENT EXECUTIVE SUMMARY

The St. Louis FE Team assessed the Burlington Memorial USAR Center on 28 November 2001. The facility is a 150 man center located within the city limits of Middletown, Iowa on Army Reserve owned land adjacent to the Iowa Army Ammunition Plant. The facility is comprised of the Reserve Center, an OMS, MEP and asphalt POV parking lot encompassed by an eight foot high security fence. At the time of the assessment, the facility was occupied by Charlie Company, 389th Engineer Battalion (Combat Heavy), with an assigned strength of 110 personnel.

The size of the USAR Center is 16,701 gross square feet. The Main Building is 13,880 gross square feet and the OMS is 2,821 gross square feet. The buildings at the center were constructed in 1972 and received major improvements in 1999. They are constructed of structural steel with CMU in-fill and face brick exteriors with a rubber membrane roof.

An Environmental Compliance Assessment System (ECAS) audit of the facility was conducted in accordance with the DOD TEAM Protocol and USAR and Missouri supplements. A total of seven (7) findings were identified: four (4) Health and Safety, zero (0) Category I, zero (0) Category II, three (3) Category III, and zero (0) positive findings were found at this facility. The Category III findings are as follows: Soil samples need to be taken around to oil / water separator adjacent to the main building to verify the absence or presence of contamination, drip pans need to be placed under vehicles parked in the MEP, an Installation Contingency Spill Plan needs to be prepared and maintained at the center and an asbestos survey needs to be completed for the entire facility. Mr. Eric Meidenbauer, Environmental Coordinator for Iowa with the 89th RSC, was informed of the findings telephonically on 29 November 2001. The Health and Safety findings related to the storage of flammable liquids, storage of compressed gas and the need for a containment sill in the OMS Flammable Storage Room. The rifle range was recently (2001) decontaminated for lead.

LOUIS A. DELL'ORCO
MAJ, EN, USAR

SECTION 2 – INSTALLATION/ASSESSMENT SCREEN

INSTALLATION SCREEN

*FFID: IA-2104IA019
*Installation Name: BURLINGTON MEMORIAL USARC
Installation Category: R
MACOM: USARC

MUSARC: 89TH ARCOM
BASOPS ARCOM: 89TH ARCOM
Support Installation:
Facility / Activity Type: 1) FM 2) OM 3) ME 4) PO 5)

EPA Region: 7
Congressional District:
Address: 17879 HWY 79, BOX 220

City: MIDDLETOWN
State: IA
Country: USA
Zip Code: 52638-0220

ASSESSMENT SCREEN

*Fiscal Year: 2002 *Assessment Date (MM/DD/YYYY): 11/28/2001
*Assessment Type: E
*Manual Used: T

Manual Supplement Used: S

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

State Manual (OCONUS: Country Specific Manual)
Date (MM/YYYY): 10/2000
Author:
State Postal Code or Country Code: IA

*Assessor Name: 416TH ENCOM, FEC-SW, ST. LOUIS TM (15)
Point of Contact: MAJOR LOU DELL'ORCO

Address: 4301 GOODFELLOW

City: ST. LOUIS
State: MO
Zip Code: 63120-4393
Phone: (314)263-0866

SECTION 3 – SUMMARY OF FINDINGS

TABLE 1-1
SUMMARY OF FINDINGS

INSTALLATION: BURLINGTON MEMORIAL USARC Fiscal Year: 2002
FFID: IA-2104IA019

SECTION NO.	TITLE	REGULATORY I	REGULATORY II	REGULATORY HS	MANAGEMENT POS	MANAGEMENT III	MANAGEMENT HS	TOTAL

A Air Emissions	0	0	0	0	0	0	0
C Cultural Resources	0	0	0	0	0	0	0
HM Hazardous Materials	0	0	3	0	0	0	3
HW Hazardous Waste	0	0	0	0	2	0	2
NR Natural Resource	0	0	0	0	0	0	0
O1 Environmental Impacts	0	0	0	0	0	0	0
O2 Environmental Noise	0	0	0	0	0	0	0
O3 IRP	0	0	0	0	0	0	0
O4 Pollution Prevention	0	0	0	0	0	0	0
O5 Program Management	0	0	0	0	0	0	0
PM Pesticide	0	0	0	0	0	0	0
PO POL	0	0	0	0	1	0	1
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	0	0	0
WQ Water Quality	0	0	0	0	0	0	0
TOTALS	0	0	3	0	4	0	7

Data File Name Prefix: C:\IA019
Date Summary Report Produced: 01/05/2

TABLE 1-1

SECTION 4 – FINDINGS

HM.35.4 #1 HS FEDERAL FINDING Hazardous Materials

FINDING ID: IA019-0201
MANUAL QUESTION NUMBER: HM-035-004
FINDING CATEGORY: HEALTH/SAFETY
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: STORAGE CAGES 125 / 126
IFS FACILITY NUMBER:
FACILITY TYPE: AFRC(MB) - ARMED FORCES RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: Flammable materials were found in Rooms 125 /

126 of the facility. Flammables, when not being used, need to be stored in approved flammable storage containers.

CRITERIA: Storage cabinets used for the storage of flammable/combustible liquids must meet specific requirements (29 CFR 1910.106(d)(3)) [April 1995].

FINDING COMMENTS: Store flammables in an approved flammable storage container.

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): Store flammable containers in approved flammable storage containers.

STATUS OF CORRECTION:

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

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

NAME/OFFICE/PHONE:_____ DATE:_____

HM.35.6 #1 HS FEDERAL FINDING Hazardous Materials

FINDING ID: IA019-0202
MANUAL QUESTION NUMBER: HM-035-006
FINDING CATEGORY: HEALTH/SAFETY
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: OMS FLAMMABLE STORAGE ROOM
IFS FACILITY NUMBER:
FACILITY TYPE: OMS - ORGANIZATIONAL MAINTENANCE SHOP

FINDING DESCRIPTION: The OMS Flammable Storage Room lacks a containment sill. At the time of the inspection, the room was not being used to store flammable items. In order to store flammable items in the room in the future, a containment sill will need to be added.

CRITERIA: Flammable/combustible storage rooms inside of buildings must meet certain specifications (29 CFR 1910.106(d)(4)) [April 1995].

FINDING COMMENTS: Install sill in OMS flammable storage room.

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): Install sill in OMS flammable storage room.

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.45.1.TG #1 HS FEDERAL FINDING Hazardous Materials

FINDING ID: IA019-0206
MANUAL QUESTION NUMBER: HM-045-001-TG
FINDING CATEGORY: HEALTH/SAFETY
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: OMS
IFS FACILITY NUMBER:
FACILITY TYPE: OMS - ORGANIZATIONAL MAINTENANCE SHOP

FINDING DESCRIPTION: A compressed gas cylinder in the OMS was not in use and not secured to keep from falling.

CRITERIA: 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 (29 CFR 1910.101).

FINDING COMMENTS: Secure compressed gas cylinders in the OMS.

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): Secure cylinders of compressed gas when not in use.

STATUS OF CORRECTION:

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

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

NAME/OFFICE/PHONE:_____ DATE:_____

HW.2.1.A #1 III FEDERAL FINDING Hazardous Waste

FINDING ID: IA019-0207
MANUAL QUESTION NUMBER: HW-002-001-A
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: ADJACENT TO MAIN BUILDING
IFS FACILITY NUMBER:
FACILITY TYPE: AFRC(MB) - ARMED FORCES RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: Soil samples need to be taken around the oil water seperator to verify the presence or absence of contamination.

CRITERIA: Installations should evaluate their operations/activities to identify and initiate opportunities for pollution prevention (MP) [July 1996].

FINDING COMMENTS: Take soil samples adjacent to oil / water seperator.

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): Take soil borings around the oil / water seperator to verify the absence or presence of contaminants.

STATUS OF CORRECTION:

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

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

NAME/OFFICE/PHONE:_____ DATE:_____

HW.2.1.RS #1 III ARMY/DOD FINDING Hazardous Waste

FINDING ID: IA019-0205
MANUAL QUESTION NUMBER: HW-002-001-RS
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: MEP
IFS FACILITY NUMBER:
FACILITY TYPE: MEP - PARKING AREA MEP

FINDING DESCRIPTION: Drip pans need to be placed under vehicles in the MEP to avoid spillage of POL products.

CRITERIA: Facilities should evaluate their operations/ activities to identify and initiate opportunities for pollution prevention (MP) [Added January 1999].

FINDING COMMENTS: No drip pans were observed under vehicles in the MEP.

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): Place drip pans under vehicles in the MEP.

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:_____

PO.5.3.RS #1 III FEDERAL FINDING POL

FINDING ID: IA019-0203
MANUAL QUESTION NUMBER: PO-005-003-RS
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: RESERVE CENTER MAIN BUILDING
IFS FACILITY NUMBER:
FACILITY TYPE: AFRC(MB) - ARMED FORCES RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: An Installation Contingency Spill Plan needs to be developed / maintained at the facility.

CRITERIA: Facilities are required to prepare spill contingency procedures (SCP) to respond to spills on Army property or caused by Army actions (AR 200-1, para 3-3b(2) and 3-3d(2)) [Citation Revised June 1998].

FINDING COMMENTS: No Installation Spill Control Plan exists for the Reserve Center.

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): Develop and maintain a Installation Spill Control Plan for the reserve center.

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:_____

T2.1.3.A #1 III FEDERAL FINDING Asbestos

FINDING ID: IA019-0204
MANUAL QUESTION NUMBER: T2-001-003-A
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: RESERVE CENTER MAIN BUILDING
IFS FACILITY NUMBER:
FACILITY TYPE: AFRC(MB) - ARMED FORCES RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: An asbestos survey needs to be completed for the facility, or if completed, a file of the survey needs to be maintained at the facility.

CRITERIA: Installations are required to conduct an asbestos survey (AR 200-1, para 10-2j and 10-3b(1) through 10-3b(3)).

FINDING COMMENTS: No asbestos survey of the reserve center is on file.

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): Complete an asbestos survey of the Reserve Center.

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:_____

ENVIRONMENTAL COMPLIANCE ASSESSMENT

FOR THE

Burlington Memorial USAR Center

Middletown, IA

INSTALLATION NUMBER: IA019

28 November 2001

PREPARED BY:

ST LOUIS FACILITIES ENGINEER TEAM

FACILITIES ENGINEER CENTER - SOUTHWEST

ENCLOSURE 4

DRAFT

ENCLOSURE 4 – ENVIRONMENTAL COMPLIANCE ASSESSMENT

TABLE OF CONTENTS

SECTION	DESCRIPTION
1	EXECUTIVE SUMMARY
2	INSTALLATION/ASSESSMENT SCREEN
3	SUMMARY OF FINDINGS
4	FINDINGS

SECTION 1 – ENVIRONMENTAL COMPLIANCE ASSESSMENT EXECUTIVE SUMMARY

The St. Louis FE Team assessed the Burlington Memorial USAR Center on 28 November 2001. The facility is a 150 man center located within the city limits of Middletown, Iowa on Army Reserve owned land adjacent to the Iowa Army Ammunition Plant. The facility is comprised of the Reserve Center, an OMS, MEP and asphalt POV parking lot encompassed by an eight foot high security fence. At the time of the assessment, the facility was occupied by Charlie Company, 389th Engineer Battalion (Combat Heavy), with an assigned strength of 110 personnel.

The size of the USAR Center is 16,701 gross square feet. The Main Building is 13,880 gross square feet and the OMS is 2,821 gross square feet. The buildings at the center were constructed in 1972 and received major improvements in 1999. They are constructed of structural steel with CMU in-fill and face brick exteriors with a rubber membrane roof.

An Environmental Compliance Assessment System (ECAS) audit of the facility was conducted in accordance with the DOD TEAM Protocol and USAR and Missouri supplements. A total of seven (7) findings were identified: four (4) Health and Safety, zero (0) Category I, zero (0) Category II, three (3) Category III, and zero (0) positive findings were found at this facility. The Category III findings are as follows: Soil samples need to be taken around to oil / water separator adjacent to the main building to verify the absence or presence of contamination, drip pans need to be placed under vehicles parked in the MEP, an Installation Contingency Spill Plan needs to be prepared and maintained at the center and an asbestos survey needs to be completed for the entire facility. Mr. Eric Meidenbauer, Environmental Coordinator for Iowa with the 89th RSC, was informed of the findings telephonically on 29 November 2001. The Health and Safety findings related to the storage of flammable liquids, storage of compressed gas and the need for a containment sill in the OMS Flammable Storage Room. The rifle range was recently (2001) decontaminated for lead.

LOUIS A. DELL'ORCO
MAJ, EN, USAR

SECTION 2 – INSTALLATION/ASSESSMENT SCREEN

INSTALLATION SCREEN

*FFID: IA-2104IA019
*Installation Name: BURLINGTON MEMORIAL USARC
Installation Category: R
MACOM: USARC

MUSARC: 89TH ARCOM
BASOPS ARCOM: 89TH ARCOM
Support Installation:
Facility / Activity Type: 1) FM 2) OM 3) ME 4) PO 5)

EPA Region: 7
Congressional District:
Address: 17879 HWY 79, BOX 220

City: MIDDLETOWN
State: IA
Country: USA
Zip Code: 52638-0220

ASSESSMENT SCREEN

*Fiscal Year: 2002 *Assessment Date (MM/DD/YYYY): 11/28/2001
*Assessment Type: E
*Manual Used: T

Manual Supplement Used: S

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

State Manual (OCONUS: Country Specific Manual)
Date (MM/YYYY): 10/2000
Author:
State Postal Code or Country Code: IA

*Assessor Name: 416TH ENCOM, FEC-SW, ST. LOUIS TM (15)
Point of Contact: MAJOR LOU DELL'ORCO

Address: 4301 GOODFELLOW

City: ST. LOUIS
State: MO
Zip Code: 63120-4393
Phone: (314)263-0866

SECTION 3 – SUMMARY OF FINDINGS

TABLE 1-1
SUMMARY OF FINDINGS

INSTALLATION: BURLINGTON MEMORIAL USARC Fiscal Year: 2002
FFID: IA-2104IA019

SECTION NO.	TITLE	REGULATORY I	REGULATORY II	REGULATORY HS	MANAGEMENT POS	MANAGEMENT III	MANAGEMENT HS	TOTAL

A Air Emissions	0	0	0	0	0	0	0
C Cultural Resources	0	0	0	0	0	0	0
HM Hazardous Materials	0	0	3	0	0	0	3
HW Hazardous Waste	0	0	0	0	2	0	2
NR Natural Resource	0	0	0	0	0	0	0
O1 Environmental Impacts	0	0	0	0	0	0	0
O2 Environmental Noise	0	0	0	0	0	0	0
O3 IRP	0	0	0	0	0	0	0
O4 Pollution Prevention	0	0	0	0	0	0	0
O5 Program Management	0	0	0	0	0	0	0
PM Pesticide	0	0	0	0	0	0	0
PO POL	0	0	0	0	1	0	1
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	0	0	0
WQ Water Quality	0	0	0	0	0	0	0
TOTALS	0	0	3	0	4	0	7

Data File Name Prefix: C:\IA019
Date Summary Report Produced: 01/05/2

TABLE 1-1

SECTION 4 – FINDINGS

HM.35.4 #1 HS FEDERAL FINDING Hazardous Materials

FINDING ID: IA019-0201
MANUAL QUESTION NUMBER: HM-035-004
FINDING CATEGORY: HEALTH/SAFETY
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: STORAGE CAGES 125 / 126
IFS FACILITY NUMBER:
FACILITY TYPE: AFRC(MB) - ARMED FORCES RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: Flammable materials were found in Rooms 125 /

126 of the facility. Flammables, when not being used, need to be stored in approved flammable storage containers.

CRITERIA: Storage cabinets used for the storage of flammable/combustible liquids must meet specific requirements (29 CFR 1910.106(d)(3)) [April 1995].

FINDING COMMENTS: Store flammables in an approved flammable storage container.

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): Store flammable containers in approved flammable storage containers.

STATUS OF CORRECTION:

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

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

NAME/OFFICE/PHONE:_____ DATE:_____

HM.35.6 #1 HS FEDERAL FINDING Hazardous Materials

FINDING ID: IA019-0202
MANUAL QUESTION NUMBER: HM-035-006
FINDING CATEGORY: HEALTH/SAFETY
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: OMS FLAMMABLE STORAGE ROOM
IFS FACILITY NUMBER:
FACILITY TYPE: OMS - ORGANIZATIONAL MAINTENANCE SHOP

FINDING DESCRIPTION: The OMS Flammable Storage Room lacks a containment sill. At the time of the inspection, the room was not being used to store flammable items. In order to store flammable items in the room in the future, a containment sill will need to be added.

CRITERIA: Flammable/combustible storage rooms inside of buildings must meet certain specifications (29 CFR 1910.106(d)(4)) [April 1995].

FINDING COMMENTS: Install sill in OMS flammable storage room.

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): Install sill in OMS flammable storage room.

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.45.1.TG #1 HS FEDERAL FINDING Hazardous Materials

FINDING ID: IA019-0206
MANUAL QUESTION NUMBER: HM-045-001-TG
FINDING CATEGORY: HEALTH/SAFETY
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: OMS
IFS FACILITY NUMBER:
FACILITY TYPE: OMS - ORGANIZATIONAL MAINTENANCE SHOP

FINDING DESCRIPTION: A compressed gas cylinder in the OMS was not in use and not secured to keep from falling.

CRITERIA: 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 (29 CFR 1910.101).

FINDING COMMENTS: Secure compressed gas cylinders in the OMS.

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): Secure cylinders of compressed gas when not in use.

STATUS OF CORRECTION:

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

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

NAME/OFFICE/PHONE:_____ DATE:_____

HW.2.1.A #1 III FEDERAL FINDING Hazardous Waste

FINDING ID: IA019-0207
MANUAL QUESTION NUMBER: HW-002-001-A
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: ADJACENT TO MAIN BUILDING
IFS FACILITY NUMBER:
FACILITY TYPE: AFRC(MB) - ARMED FORCES RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: Soil samples need to be taken around the oil water seperator to verify the presence or absence of contamination.

CRITERIA: Installations should evaluate their operations/activities to identify and initiate opportunities for pollution prevention (MP) [July 1996].

FINDING COMMENTS: Take soil samples adjacent to oil / water seperator.

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): Take soil borings around the oil / water seperator to verify the absence or presence of contaminants.

STATUS OF CORRECTION:

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

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

NAME/OFFICE/PHONE:_____ DATE:_____

HW.2.1.RS #1 III ARMY/DOD FINDING Hazardous Waste

FINDING ID: IA019-0205
MANUAL QUESTION NUMBER: HW-002-001-RS
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: MEP
IFS FACILITY NUMBER:
FACILITY TYPE: MEP - PARKING AREA MEP

FINDING DESCRIPTION: Drip pans need to be placed under vehicles in the MEP to avoid spillage of POL products.

CRITERIA: Facilities should evaluate their operations/ activities to identify and initiate opportunities for pollution prevention (MP) [Added January 1999].

FINDING COMMENTS: No drip pans were observed under vehicles in the MEP.

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): Place drip pans under vehicles in the MEP.

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:_____

PO.5.3.RS #1 III FEDERAL FINDING POL

FINDING ID: IA019-0203
MANUAL QUESTION NUMBER: PO-005-003-RS
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: RESERVE CENTER MAIN BUILDING
IFS FACILITY NUMBER:
FACILITY TYPE: AFRC(MB) - ARMED FORCES RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: An Installation Contingency Spill Plan needs to be developed / maintained at the facility.

CRITERIA: Facilities are required to prepare spill contingency procedures (SCP) to respond to spills on Army property or caused by Army actions (AR 200-1, para 3-3b(2) and 3-3d(2)) [Citation Revised June 1998].

FINDING COMMENTS: No Installation Spill Control Plan exists for the Reserve Center.

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): Develop and maintain a Installation Spill Control Plan for the reserve center.

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:_____

T2.1.3.A #1 III FEDERAL FINDING Asbestos

FINDING ID: IA019-0204
MANUAL QUESTION NUMBER: T2-001-003-A
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: RESERVE CENTER MAIN BUILDING
IFS FACILITY NUMBER:
FACILITY TYPE: AFRC(MB) - ARMED FORCES RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: An asbestos survey needs to be completed for the facility, or if completed, a file of the survey needs to be maintained at the facility.

CRITERIA: Installations are required to conduct an asbestos survey (AR 200-1, para 10-2j and 10-3b(1) through 10-3b(3)).

FINDING COMMENTS: No asbestos survey of the reserve center is on file.

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): Complete an asbestos survey of the Reserve Center.

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:_____

LEAD-BASED PAINT

IA019
Middletown, Iowa

This facility includes a one story USARC building and a maintenance shop. The survey of the facility was completed on January 12, 2006, and the results are presented in the following spreadsheet. 255 valid readings were taken. One null reading was not corrected. Because of the large number of duplicative readings taken, the single null reading does not affect the overall validity of the survey.

Fifteen of the valid readings, or approximately 5.9 percent, were positive. Two positive readings were taken on the exterior of the maintenance shop and two were taken on metal columns and beams inside the maintenance shop. Of the remaining positive readings, seven were taken in the basement mechanical room in the main building on stair railing, stringer, tread, riser, and deck. The remaining four positive readings were taken in the main building on lockers, a duct, and a concrete floor. All the surfaces with positive readings were noted to be intact.

On the basis of the low percentage of LBP identified, the LBP locations, the good condition of the surfaces, and the current use of the facility (not residential or child-occupied), the risk of lead exposure in facility IA019 is qualitatively evaluated as low. It is recommended that routine maintenance be performed at the facility. No abatement activities are recommended.

FACILITY NUMBER IA019
MIDDLETOWN, IOWA

Reading Number[1]	Building	Room	Side	Component	Substrate	Condition	Read Time (Sec)	Depth Index[2]	PbC (mg/cm²)	PbC Error	Results[3]
8	MAIN	102	North	Wall	Concrete	Intact	3.14	1	0	0.02	Negative
9	MAIN	102	West	Wall	Concrete	Intact	2.25	1	0	0.02	Negative
10	MAIN	102	South	Wall	Drywall	Intact	1.34	1	0	0.02	Negative
11	MAIN	102	East	Wall	Drywall	Intact	1.35	1	0	0.02	Negative
12	MAIN	102	East	Door	Metal	Intact	1.35	1.53	0.04	0.07	Negative
13	MAIN	102	North	Radiator	Metal	Intact	1.34	1	0	0.02	Negative
14	MAIN	102	West	Radiator	Metal	Intact	1.34	1	0.02	0.04	Negative
15	MAIN	103	West	Radiator	Metal	Intact	1.34	1.68	0.03	0.07	Negative
16	MAIN	103	East	Door	Metal	Intact	1.35	1.73	0.04	0.08	Negative
17	MAIN	103	East	Wall	Drywall	Intact	1.35	1	0	0.02	Negative
18	MAIN	103	South	Wall	Drywall	Intact	1.35	1	0	0.02	Negative
19	MAIN	103	North	Wall	Drywall	Intact	1.8	1	0	0.02	Negative
20	MAIN	103	West	Wall	Concrete	Intact	2.25	1	0	0.02	Negative
21	MAIN	104	West	Wall	Concrete	Intact	2.24	1.3	0	0.02	Negative
22	MAIN	104	North	Wall	Drywall	Intact	1.34	1.5	0	0.02	Negative
23	MAIN	104	South	Wall	Drywall	Intact	1.34	1	0	0.02	Negative
24	MAIN	104	East	Wall	Drywall	Intact	1.34	1	0	0.02	Negative
25	MAIN	104	East	Door	Metal	Intact	1.34	1	0.02	0.04	Negative
26	MAIN	104	West	Radiator	Metal	Intact	1.34	1	0	0.02	Negative
27	MAIN	105	North	Radiator	Metal	Intact	1.34	1	0	0.02	Negative
28	MAIN	105	North	Window	Metal	Intact	3.14	1	0	0.02	Negative
29	MAIN	105	North	Window Casing	Metal	Intact	2.24	1	0	0.02	Negative
30	MAIN	105	West	Door	Metal	Intact	1.34	2.88	0.09	0.15	Negative
31	MAIN	105	East	Door	Metal	Intact	1.34	4.11	0.04	0.13	Negative
32	MAIN	105	East	Door Casing	Metal	Intact	1.35	2.37	0.03	0.08	Negative
33	MAIN	105	East	Wall	Concrete	Intact	2.69	1	0	0.02	Negative
34	MAIN	105	North	Wall	Concrete	Intact	3.59	1.25	0	0.02	Negative
35	MAIN	105	West	Wall	Drywall	Intact	1.34	1.09	0	0.02	Negative
36	MAIN	105	South	Wall	Drywall	Intact	1.34	1	0	0.02	Negative
37	MAIN	101	North	Wall	Concrete	Intact	2.24	1.24	0	0.02	Negative
38	MAIN	101	East	Wall	Concrete	Intact	2.24	1	0	0.02	Negative
39	MAIN	101	East	Wall	Concrete	Intact	2.24	1	0	0.02	Negative
40	MAIN	101	West	Wall	Concrete	Intact	2.24	1	0	0.02	Negative
41	MAIN	101	South	Door	Metal	Intact	1.34	1.18	0.02	0.05	Negative
42	MAIN	101	South	Door Casing	Metal	Intact	1.34	1.49	0.02	0.05	Negative
43	MAIN	101	West	Door Casing	Metal	Intact	1.34	1.97	0.03	0.07	Negative
44	MAIN	101	West	Door	Metal	Intact	1.34	1	0.01	0.03	Negative
45	MAIN	101	East	Door	Metal	Intact	1.35	6.91	0.13	0.32	Negative
46	MAIN	101	East	Door Casing	Metal	Intact	1.37	1.57	0.02	0.05	Negative
47	MAIN	101	North	Door Casing	Metal	Intact	3.14	1	0	0.02	Negative
48	MAIN	101	North	Door	Metal	Intact	1.34	1	0	0.02	Negative
49	MAIN	113	East	Door	Metal	Intact	1.34	1	0.01	0.02	Negative
50	MAIN	113	East	Door Casing	Metal	Intact	1.34	1.89	0.02	0.06	Negative
51	MAIN	113	East	Wall	Concrete	Intact	2.24	1	0	0.02	Negative
52	MAIN	113	South	Wall	Concrete	Intact	2.25	1.1	0	0.02	Negative
53	MAIN	113	West	Wall	Concrete	Intact	3.14	1	0	0.02	Negative
54	MAIN	113	North	Wall	Concrete	Intact	2.24	1.09	0	0.02	Negative
55	MAIN	113	North	Shelves	Wood	Intact	1.34	1	0	0.02	Negative
56	MAIN	113	South	Shelves	Wood	Intact	1.34	1.08	0	0.02	Negative
57	MAIN	113	Ceiling	Ceiling	Drywall	Intact	1.34	1	0	0.02	Negative
58	MAIN	114	Ceiling	Ceiling	Drywall	Intact	1.34	1	0	0.02	Negative
59	MAIN	114	North	Wall	Concrete	Intact	3.14	1.78	0.05	0.06	Negative
60	MAIN	114	West	Wall	Concrete	Intact	2.69	1.6	0.03	0.05	Negative
61	MAIN	114	South	Wall	Concrete	Intact	2.69	1.82	0.05	0.06	Negative
62	MAIN	114	East	Wall	Concrete	Intact	2.25	1.94	0.05	0.07	Negative
63	MAIN	114	East	Door	Metal	Intact	1.34	1.31	0.01	0.04	Negative
64	MAIN	114	East	Door Casing	Metal	Intact	1.36	1.61	0.03	0.06	Negative
65	MAIN	114	East	STALL	Metal	Intact	1.36	1	0	0.02	Negative
66	MAIN	106	West	Radiator	Metal	Intact	1.35	5.07	0.21	0.33	Negative
67	MAIN	106	West	Wall	Concrete	Intact	2.69	1.73	0	0.02	Negative
68	MAIN	106	South	Wall	Concrete	Intact	2.69	1	0	0.02	Negative
69	MAIN	106	North	Wall	Drywall	Intact	1.34	1	0	0.02	Negative
70	MAIN	106	South	Door	Metal	Intact	1.34	2.71	0.06	0.12	Negative
71	MAIN	106	South	Door Casing	Metal	Intact	1.34	1	0.01	0.03	Negative
72	MAIN	107	South	Door Casing	Metal	Intact	1.34	1.59	0.01	0.04	Negative
73	MAIN	107	South	Door	Metal	Intact	1.34	1	0.01	0.02	Negative
74	MAIN	107	South	Wall	Concrete	Intact	2.69	1.18	0	0.02	Negative

Reading Number[1]	Building	Room	Side	Component	Substrate	Condition	Read Time (Sec)	Depth Index[2]	PbC (mg/cm²)	PbC Error	Results[3]
75	MAIN	107	East	Wall	Concrete	Intact	3.14	1.22	0	0.02	Negative
76	MAIN	107	North	Wall	Concrete	Intact	1.34	2.29	0.6	0.3	Negative
77	MAIN	107	North	Wall	Drywall	Intact	1.34	1	0	0.02	Negative
78	MAIN	108	North	Wall	Concrete	Intact	2.69	1	0	0.02	Negative
79	MAIN	108	West	Wall	Concrete	Intact	3.14	1.63	0	0.02	Negative
80	MAIN	108	South	Wall	Concrete	Intact	2.24	1.49	0	0.02	Negative
81	MAIN	108	West	Door	Metal	Intact	1.34	1	0	0.02	Negative
82	MAIN	108	West	Door Casing	Metal	Intact	1.34	1	0.01	0.02	Negative
83	MAIN	108	South	Window	Metal	Intact	2.69	1	0	0.02	Negative
84	MAIN	108	South	Window Casing	Metal	Intact	2.69	1	0	0.02	Negative
85	MAIN	108	North	Door	Metal	Intact	1.34	1	0.01	0.03	Negative
86	MAIN	108	North	Door Casing	Metal	Intact	1.34	1.4	0.02	0.05	Negative
87	MAIN	108	North	LOCKER	Metal	Intact	7.63	1.09	1.2	0.1	**Positive**
88	MAIN	108	South	LOCKER	Metal	Intact	2.7	1	0.8	0.2	Negative
89	MAIN	115	East	LOCKER	Metal	Intact	0.9	1.17	2.3	0.9	**Positive**
90	MAIN	115	East	Door	Metal	Intact	1.34	1	0.01	0.02	Negative
91	MAIN	115	East	Door Casing	Metal	Intact	1.34	3.46	0.06	0.14	Negative
92	MAIN	115	West	Door Casing	Metal	Intact	1.36	1	0.01	0.03	Negative
93	MAIN	115	West	Door	Metal	Intact	1.34	1	0.01	0.03	Negative
94	MAIN	115	South	Door	Metal	Intact	1.34	1	0.01	0.03	Negative
95	MAIN	115	South	Door Casing	Metal	Intact	1.34	1.76	0.02	0.05	Negative
96	MAIN	115	South	Wall	Concrete	Intact	3.14	4.93	0.01	0.04	Negative
97	MAIN	115	East	Wall	Concrete	Intact	2.25	1	0	0.02	Negative
98	MAIN	115	West	Wall	Concrete	Intact	3.58	1	0	0.02	Negative
99	MAIN	116	East	Wall	Concrete	Intact	2.69	1.02	0	0.02	Negative
100	MAIN	116	North	Wall	Concrete	Intact	2.24	1	0	0.02	Negative
101	MAIN	116	South	Wall	Concrete	Intact	2.24	1	0	0.02	Negative
102	MAIN	116	North	Door	Metal	Intact	1.34	1.42	0.01	0.04	Negative
103	MAIN	116	North	Door Casing	Metal	Intact	1.34	4.15	0.09	0.2	Negative
104	MAIN	117	East	Door Casing	Metal	Intact	1.34	1	0.01	0.03	Negative
105	MAIN	117	East	Door	Metal	Intact	1.34	4.08	0.07	0.17	Negative
106	MAIN	117	West	Door	Metal	Intact	1.37	1.2	0.02	0.04	Negative
107	MAIN	117	West	Door Casing	Metal	Intact	1.34	1	0.01	0.02	Negative
108	MAIN	117	Ceiling	Ceiling	Drywall	Intact	1.8	1.08	0	0.02	Negative
109	MAIN	125	West	Door	Metal	Intact	1.36	1.01	0.01	0.03	Negative
110	MAIN	125	West	Door Casing	Metal	Intact	1.34	1.1	0.01	0.03	Negative
111	MAIN	125	West	Wall	Concrete	Intact	2.24	1	0	0.02	Negative
112	MAIN	125	South	Wall	Concrete	Intact	3.58	1	0.01	0.02	Negative
113	MAIN	125	South	Door	Metal	Intact	1.35	2.11	0.02	0.07	Negative
114	MAIN	125	South	Door Casing	Metal	Intact	1.34	2.88	0.04	0.1	Negative
115	MAIN	125	South	Garage Door	Metal	Intact	1.35	7.7	0.19	0.51	Negative
116	MAIN	125	South	Garage Door CASIN	Metal	Intact	1.35	1	0	0.02	Negative
117	MAIN	125	East	Wall	Concrete	Intact	1.8	1.43	0	0.02	Negative
118	MAIN	125	North	Wall	Concrete	Intact	2.69	1	0	0.02	Negative
119	MAIN	125	Floor	Floor	Concrete	Intact	0.9	1.14	2.2	0.9	**Positive**
120	MAIN	125	North	CAGE	Metal	Intact	1.35	1	0	0.02	Negative
121	MAIN	125	Ceiling	HVAC Duct	Metal	Intact	2.69	7.81	0.19	0.38	Negative
122	MAIN	125	Ceiling	HVAC Duct BEAM	Metal	Intact	0.9	2.58	2.6	1.5	**Positive**
123	MAIN	125	Ceiling	RAFTER	Metal	Intact	1.34	3.3	0.14	0.21	Negative
124	MAIN	126	South	Wall	Concrete	Intact	1.79	1	0	0.02	Negative
125	MAIN	126	East	Wall	Concrete	Intact	2.24	4.36	0.02	0.07	Negative
126	MAIN	126	North	Wall	Concrete	Intact	2.24	1.05	0	0.02	Negative
127	MAIN	126	West	Wall	Concrete	Intact	2.69	1	0	0.02	Negative
128	MAIN	126	South	CAGE	Metal	Intact	1.35	1	0	0.02	Negative
129	MAIN	126	East	Door	Metal	Intact	1.34	1.66	0.04	0.07	Negative
130	MAIN	126	East	Door Casing	Metal	Intact	1.34	1	0.01	0.03	Negative
131	MAIN	126	North	Door Casing	Metal	Intact	1.34	1	0.01	0.02	Negative
132	MAIN	126	North	Door	Metal	Intact	1.34	5.29	0.06	0.18	Negative
133	MAIN	126	Ceiling	Ceiling	Drywall	Intact	1.34	1	0	0.02	Negative
134	MAIN	122	West	Wall	Concrete	Intact	3.14	1.56	0	0.02	Negative
135	MAIN	122	North	Wall	Concrete	Intact	3.59	1	0	0.02	Negative
136	MAIN	122	East	Wall	Concrete	Intact	1.79	1.33	0	0.02	Negative
137	MAIN	122	South	Wall	Concrete	Intact	2.24	1	0	0.02	Negative
138	MAIN	122	South	Door	Metal	Intact	1.34	1	0.01	0.03	Negative
139	MAIN	122	South	Door Casing	Metal	Intact	1.34	1.7	0.02	0.06	Negative
140	MAIN	122	East	Window	Metal	Intact	4.03	1	0.6	0.4	Negative
141	MAIN	122	East	Window Casing	Metal	Intact	2.25	1	0	0.02	Negative

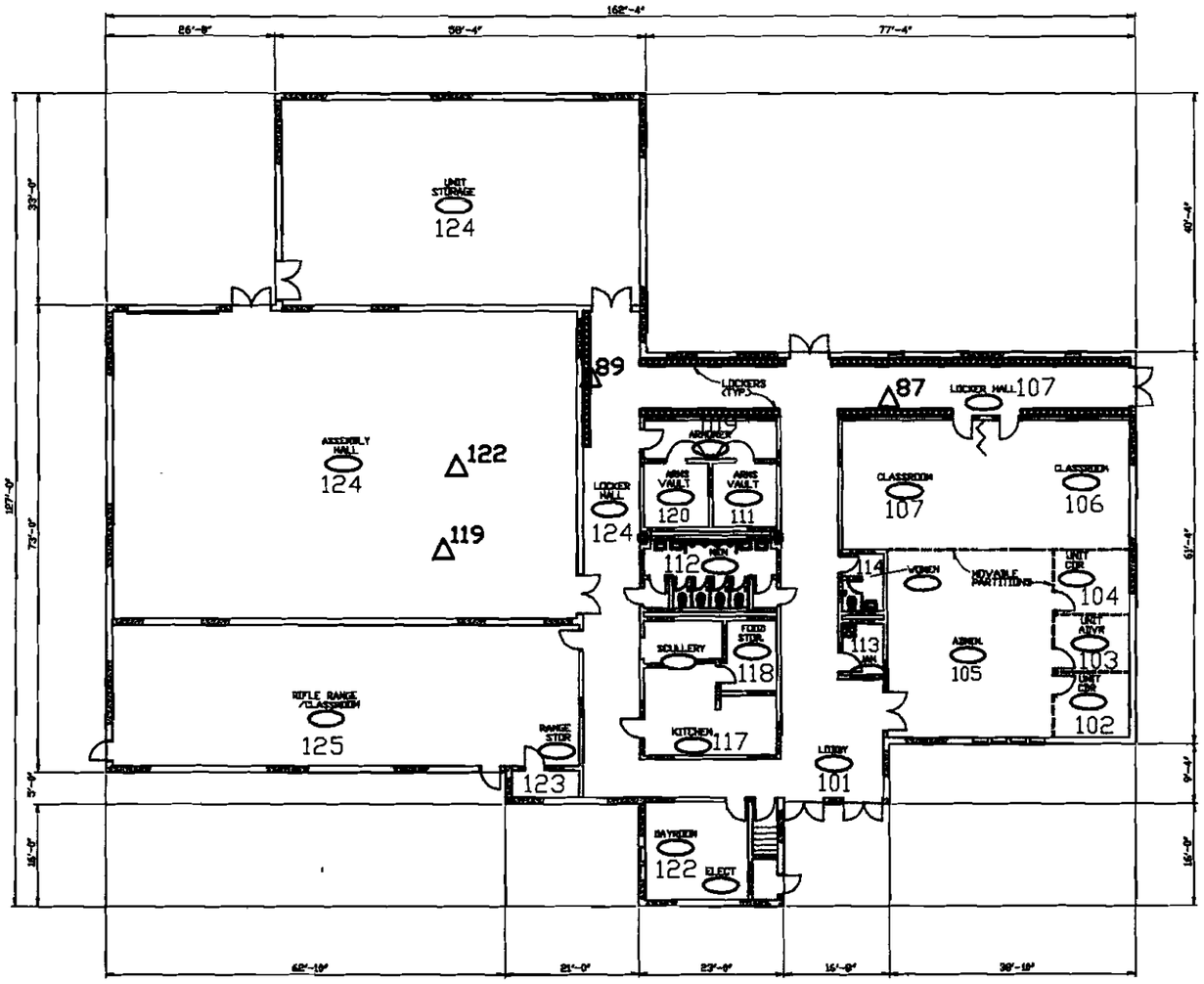
Reading Number[1]	Building	Room	Side	Component	Substrate	Condition	Read Time (Sec)	Depth Index[2]	PbC (mg/cm²)	PbC Error	Results[3]
142	MAIN	122	East	Radiator	Metal	Intact	1.34	1	0.01	0.03	Negative
143	MAIN	122	North	Radiator	Metal	Intact	1.34	1	0.01	0.03	Negative
144	MAIN	201	South	Door	Metal	Intact	1.34	2.04	0.04	0.09	Negative
145	MAIN	201	South	Door Casing	Metal	Intact	1.34	1.94	0.1	0.13	Negative
146	MAIN	201	West	Railing	Metal	Intact	1.34	1.98	1.9	0.7	**Positive**
147	MAIN	201	West	Stringer	Metal	Intact	0.45	2.51	4.1	3	**Positive**
148	MAIN	201	West	Tread	Metal	Intact	1.35	1.85	1.8	0.6	**Positive**
149	MAIN	201	West	Riser	Metal	Intact	1.35	2.2	2.5	0.8	**Positive**
150	MAIN	201	West	Wall	Concrete	Intact	3.14	1	0	0.02	Negative
151	MAIN	201	North	Wall	Concrete	Intact	2.69	1.92	0.01	0.03	Negative
152	MAIN	201	East	Wall	Concrete	Intact	2.69	1	0	0.02	Negative
153	MAIN	201	South	Wall	Concrete	Intact	3.14	1	0	0.02	Negative
154	MAIN	201	West	HVAC Duct	Metal	Intact	1.34	1.92	0.04	0.15	Negative
155	MAIN	201	West	Stringer	Metal	Intact	0.9	1.76	2.3	1.2	**Positive**
156	MAIN	201	West	Tread	Metal	Intact	0.9	1.89	1.2	0.8	Null
157	MAIN	201	West	Railing	Metal	Intact	1.79	1.46	1.5	0.4	**Positive**
158	MAIN	201	West	DECK	Metal	Intact	4.03	2	1.2	0.2	**Positive**
159	MAIN	201	West	Door	Metal	Intact	1.34	1	0.01	0.03	Negative
160	MAIN	201	West	Door Casing	Metal	Intact	1.34	1.96	0.03	0.08	Negative
161	MAIN	201	Ceiling	Ceiling	Metal	Intact	1.36	4.53	0.15	0.35	Negative
162	MAIN	201	Ceiling	Ceiling	Metal	Intact	1.35	2.26	0.11	0.15	Negative
163	MAIN	201	West	Window Casing	Metal	Intact	1.34	1	0.01	0.05	Negative
164	MAINTENANCE	M1	West	Wall	Concrete	Intact	2.7	1	0	0.02	Negative
165	MAINTENANCE	M1	South	Wall	Concrete	Intact	1.79	1.43	0.01	0.03	Negative
166	MAINTENANCE	M1	East	Wall	Concrete	Intact	3.14	1	0	0.02	Negative
167	MAINTENANCE	M1	North	Wall	Concrete	Intact	1.79	1.83	0.01	0.03	Negative
168	MAINTENANCE	M1	North	Door	Metal	Intact	1.34	1	0	0.02	Negative
169	MAINTENANCE	M1	North	Door Casing	Metal	Intact	1.34	1.66	0.08	0.11	Negative
170	MAINTENANCE	M1	West	Garage Door	Metal	Intact	1.34	3.05	0.11	0.21	Negative
171	MAINTENANCE	M1	West	Garage Door CASIN	Metal	Intact	1.35	3.35	0.07	0.2	Negative
172	MAINTENANCE	M1	South	Door	Metal	Intact	1.35	1.55	0.02	0.05	Negative
173	MAINTENANCE	M1	South	Door Casing	Metal	Intact	1.34	2.92	0.08	0.14	Negative
174	MAINTENANCE	M1	East	CAGE	Metal	Intact	1.34	1	0.14	0.11	Negative
175	MAINTENANCE	M1	East	Column	Metal	Intact	12.1	2.19	0.9	0.1	Negative
176	MAINTENANCE	M1	MIDDLE	Column	Metal	Intact	3.14	3.23	1.5	0.5	**Positive**
177	MAINTENANCE	M1	Floor	Floor	Concrete	Intact	2.69	1.55	0.01	0.02	Negative
178	MAINTENANCE	M1	East	Window	Metal	Intact	3.14	1	0	0.02	Negative
179	MAINTENANCE	M1	East	Window Casing	Metal	Intact	1.34	1.32	0.06	0.08	Negative
180	MAINTENANCE	M1	Ceiling	BEAM	Metal	Intact	0.9	2.21	2.6	1.4	**Positive**
181	MAINTENANCE	M1	Ceiling	HVAC Duct	Metal	Intact	1.34	4.74	0.09	0.26	Negative
182	MAINTENANCE	M2	North	Door	Metal	Intact	1.34	2	0.03	0.07	Negative
183	MAINTENANCE	M2	North	Door Casing	Metal	Intact	1.34	1.79	0.03	0.07	Negative
184	MAINTENANCE	M2	South	Window Casing	Metal	Intact	3.58	1	0	0.02	Negative
185	MAINTENANCE	M2	West	Wall	Concrete	Intact	3.58	4.43	0.01	0.04	Negative
186	MAINTENANCE	M2	South	Wall	Concrete	Intact	2.69	1	0	0.02	Negative
187	MAINTENANCE	M2	East	Wall	Concrete	Intact	1.79	1	0	0.02	Negative
188	MAINTENANCE	M2	North	Wall	Concrete	Intact	2.24	1	0	0.02	Negative
189	MAINTENANCE	M3	North	Wall	Concrete	Intact	1.8	1.72	0.05	0.08	Negative
190	MAINTENANCE	M3	West	Wall	Concrete	Intact	2.69	1.84	0.08	0.08	Negative
191	MAINTENANCE	M3	East	Wall	Concrete	Intact	3.59	1.39	0.05	0.03	Negative
192	MAINTENANCE	M3	South	Wall	Concrete	Intact	1.79	2.28	0.07	0.1	Negative
193	MAINTENANCE	M3	Ceiling	Ceiling	Metal	Intact	1.35	2.45	0.14	0.2	Negative
194	MAINTENANCE	M3	Ceiling	RAFTER	Metal	Intact	1.34	1.55	0.1	0.11	Negative
195	MAINTENANCE	M3	South	Door	Metal	Intact	1.34	1	0.01	0.03	Negative
196	MAINTENANCE	M3	South	Door Casing	Metal	Intact	1.34	1.07	0.03	0.05	Negative
197	MAIN	124	West	Door Casing	Metal	Intact	1.34	1	0.01	0.03	Negative
198	MAIN	124	West	Door	Metal	Intact	1.34	1.05	0.02	0.04	Negative
199	MAIN	124	North	Door	Metal	Intact	1.34	1.37	0.02	0.05	Negative
200	MAIN	124	North	Door Casing	Metal	Intact	1.34	1.24	0.02	0.04	Negative
201	MAIN	124	East	Door Casing	Metal	Intact	1.34	1	0.02	0.04	Negative
202	MAIN	124	East	Door	Metal	Intact	1.34	1.51	0.03	0.07	Negative
203	MAIN	124	East	Wall	Concrete	Intact	2.24	1.71	0.04	0.06	Negative
204	MAIN	124	South	Wall	Concrete	Intact	2.25	1.6	0.2	0.13	Negative
205	MAIN	124	North	Wall	Concrete	Intact	2.25	1.06	0.01	0.02	Negative
206	MAIN	124	West	Wall	Concrete	Intact	2.69	4.34	0.02	0.06	Negative
207	MAIN	124	Ceiling	HVAC Duct	Metal	Intact	1.34	1	0	0.02	Negative
208	MAIN	124	Ceiling	Ceiling	Metal	Intact	1.34	1.23	0.01	0.03	Negative

FACILITY NUMBER IA019
MIDDLETOWN, IOWA

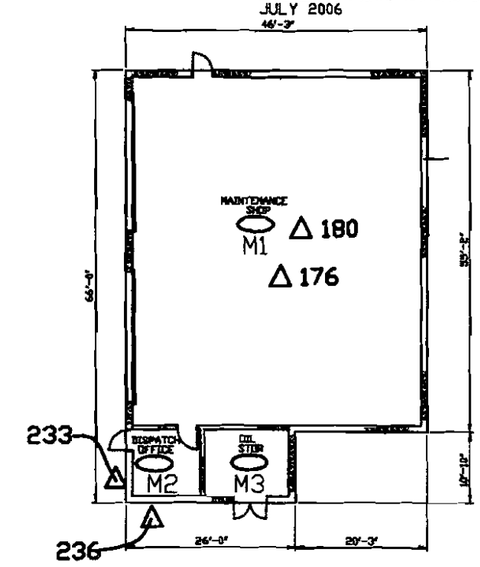
Reading Number[1]	Building	Room	Side	Component	Substrate	Condition	Read Time (Sec)	Depth Index[2]	PbC (mg/cm²)	PbC Error	Results[3]
209	MAIN	124	Ceiling	RAFTER	Metal	Intact	1.34	1	0.01	0.03	Negative
210	MAIN	124	Floor	Floor	Concrete	Poor	2.24	1.04	0.06	0.05	Negative
211	MAIN	123	East	Wall	Concrete	Intact	1.8	1	0	0.02	Negative
212	MAIN	123	North	Wall	Concrete	Intact	3.59	1	0	0.02	Negative
213	MAIN	123	West	Wall	Concrete	Intact	1.79	1	0	0.02	Negative
214	MAIN	123	South	Wall	Concrete	Intact	2.25	1	0	0.02	Negative
215	MAIN	123	South	Door Casing	Metal	Intact	1.34	1	0.01	0.02	Negative
216	MAIN	123	South	Door	Metal	Intact	1.35	1	0.01	0.02	Negative
217	MAIN	123	West	Radiator	Metal	Intact	1.34	1	0	0.02	Negative
218	MAIN	123	Ceiling	Ceiling	Drywall	Intact	1.79	2.49	-0.16	1.13	Negative
219	MAIN	112	Ceiling	Ceiling	Drywall	Intact	1.34	1	0	0.02	Negative
220	MAIN	112	North	Wall	Concrete	Intact	2.25	2.29	0.06	0.08	Negative
221	MAIN	112	West	Wall	Concrete	Intact	2.24	1.52	0.03	0.05	Negative
222	MAIN	112	South	Wall	Concrete	Intact	1.79	1.72	0.03	0.06	Negative
223	MAIN	112	East	Wall	Concrete	Intact	2.24	1.84	0.04	0.06	Negative
224	MAIN	112	North	Door	Metal	Intact	1.34	1.03	0.01	0.03	Negative
225	MAIN	112	North	Door Casing	Metal	Intact	1.34	1.51	0.02	0.05	Negative
226	MAIN	112	North	STALL	Metal	Intact	1.34	1	0	0.02	Negative
227	MAINTENANCE	EXTERIOR	North	Door	Metal	Intact	1.34	1	0	0.02	Negative
228	MAINTENANCE	EXTERIOR	North	Door Casing	Metal	Intact	1.35	1	0	0.02	Negative
229	MAINTENANCE	EXTERIOR	West	Garage Door	Metal	Intact	1.35	1	0.01	0.04	Negative
230	MAINTENANCE	EXTERIOR	West	Garage Door CASIN	Metal	Intact	1.34	1.74	0.6	0.3	Negative
231	MAINTENANCE	EXTERIOR	West	Door	Metal	Intact	1.34	1	0	0.02	Negative
232	MAINTENANCE	EXTERIOR	West	Door Casing	Metal	Intact	1.34	1	0	0.02	Negative
233	MAINTENANCE	EXTERIOR	West	Window Casing	Metal	Intact	1.34	2.4	1.8	0.7	**Positive**
234	MAINTENANCE	EXTERIOR	West	Window	Metal	Intact	1.34	1.95	0.05	0.09	Negative
235	MAINTENANCE	EXTERIOR	South	Window	Metal	Intact	2.69	1	0	0.02	Negative
236	MAINTENANCE	EXTERIOR	South	Window Casing	Metal	Intact	1.34	2.04	1.8	0.6	**Positive**
237	MAINTENANCE	EXTERIOR	South	Door	Metal	Intact	1.34	3.58	0.01	0.07	Negative
238	MAINTENANCE	EXTERIOR	South	Door Casing	Metal	Intact	1.35	1	0	0.02	Negative
239	MAINTENANCE	EXTERIOR	East	Window	Metal	Intact	4.03	1.34	0	0.02	Negative
240	MAINTENANCE	EXTERIOR	East	Window Casing	Metal	Intact	1.34	1.13	0.4	0.2	Negative
241	MAIN	EXTERIOR	North	Door Casing	Metal	Intact	3.15	1	0	0.02	Negative
242	MAIN	EXTERIOR	North	Door	Metal	Intact	3.14	1	0	0.02	Negative
243	MAIN	EXTERIOR	North	Window	Metal	Intact	3.14	1	0	0.02	Negative
244	MAIN	EXTERIOR	North	Window Casing	Metal	Intact	1.35	1	0	0.02	Negative
245	MAIN	EXTERIOR	West	Door	Metal	Intact	1.34	1	0	0.02	Negative
246	MAIN	EXTERIOR	West	Door Casing	Metal	Intact	1.34	4.53	0.07	0.18	Negative
247	MAIN	EXTERIOR	West	Riser	Concrete	Intact	3.59	1.54	0.01	0.02	Negative
248	MAIN	EXTERIOR	North	Flagpole	Metal	Intact	1.34	1.68	0.14	0.14	Negative
249	MAIN	EXTERIOR	West	Curb	Concrete	Intact	3.14	2.83	0.03	0.06	Negative
250	MAIN	EXTERIOR	East	Door	Metal	Intact	1.34	1	0	0.02	Negative
251	MAIN	EXTERIOR	East	Door Casing	Metal	Intact	1.35	1.22	0.01	0.03	Negative
252	MAIN	EXTERIOR	South	Door Casing	Metal	Intact	1.34	2.21	0.01	0.04	Negative
253	MAIN	EXTERIOR	South	Door	Metal	Intact	1.34	1	0	0.02	Negative
254	MAIN	EXTERIOR	South	Window	Metal	Intact	2.24	1	0	0.02	Negative
255	MAIN	EXTERIOR	South	Window Casing	Metal	Intact	1.79	1.69	0.01	0.02	Negative
256	MAIN	EXTERIOR	South	Garage Door	Metal	Intact	1.34	1	0	0.02	Negative
257	MAIN	EXTERIOR	South	Garage Door CASIN	Metal	Intact	14.35	2.08	0.9	0.1	Negative
258	MAIN	ROOF	West	Door	Metal	Intact	1.34	1	0	0.02	Negative
259	MAIN	ROOF	West	Door Casing	Metal	Intact	1.34	1	0	0.02	Negative
260	MAIN	ROOF	West	Fascia	Metal	Intact	3.14	1.49	0.02	0.03	Negative
261	MAIN	ROOF	South	Fascia	Metal	Intact	2.24	1.39	0.01	0.03	Negative
262	MAIN	ROOF	East	Fascia	Metal	Intact	3.14	1.65	0.04	0.05	Negative
263	MAIN	ROOF	North	Fascia	Metal	Intact	1.34	1	0	0.02	Negative

Notes:
1. Calibration and voided readings are not included in the table.
2. Depth index of <1.5 is near surface; 1.6-4.0 is moderate; >4.0 is deeply buried.
3. Action level is 1.0 mg/cm2

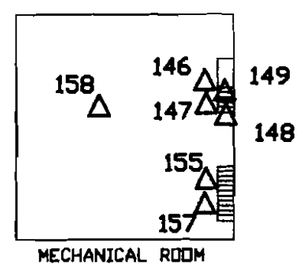
89TH RRC
LEAD-BASED PAINT INSPECTIONS
SCS ENGINEERS 10975 EL MONTE, STE.100
OVERLAND PARK, KANSAS 66211
JULY 2006



FLOOR PLAN
SCALE: 1/8" = 1 FOOT



MAINTENANCE SHOP FLOOR PLAN
SCALE: 1/8" = 1 FOOT



MECHANICAL ROOM

NOTE:
NO CAD DRAWING AVAILABLE FOR MECH ROOM
PREPARED FROM HARD COPY OR SKETCH

LEGEND

△ 449 POSITIVE LBP READING APPROXIMATE LOCATION AND READING NUMBER

ALL SCALES SHOWN ARE BASED ON A STANDARD DRAWING SIZE OF 22" X 34" OR METRIC DRAWING SIZE OF 841mm X 594mm. IF ANY OTHER SIZE DRAWINGS ARE FURNISHED OR PLOTTED THE CONTRACTOR SHALL ADJUST THE SCALES ACCORDING. THE CONTRACTOR SHALL ALSO ADVISE HIS SUB-CONTRACTORS OF THE ABOVE.

$$ - THINK VALUE ENGINEERING - $$

Revisions			
Symbol	Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
OMAHA, NEBRASKA

ARMY RESERVE CENTERS
BURLINGTON, IOWA
FACILITY NO. IA019

FLOOR PLANS

Designed by:	Plot Scale: Radio 1:8	Date: APRIL 1998	Sheet Number
Drawn by: R.I.S.	Design Plot/Publication	Drawing Code: X	A1
Checked by:	Spec. No: DACA 43		
Reviewed by:	Contract No:		
Submitted by:			
Chief: ARCH. Section:			

AFRC-CKS-EN 27 October 1997

MEMORANDUM FOR DSCENGR Operation Section thru Steve Lawson

SUBJECT: Paint Sample Results for USARTC Middletown, IA

1. Work orders were submitted to repaint two main building doors, an OMS bay door, and five connex's at the USARTC in Middletown, IA. The work orders are attached. The paint sample results for these doors and connex's have been received. Paint containing greater than 0.5% lead is considered lead-based paint. The paint samples from the two doors in the main building and the bay door in the OMS tested below 0.5% lead therefore, the paint is not lead-based. Three of the five connex paint samples tested above 0.5% level. The paint sample results are attached.

2. It is recommended that the main building south bay door, the main building south double door, and the OMS bay door be repainted. According to the Facility Manager the paint on these doors is currently peeling, so the old paint should be scraped off prior to repainting the doors. The paint that is scraped off of the doors should be collected on a drop cloth and placed in the trash.

3. The three connex's that tested positive for lead-based paint contain low concentrations of lead. There are no federal or state regulations regarding painting over lead-based paint. It is recommended that the five connex's be repainted with the following provision. The existing paint should not be scraped off of the connex's. The existing paint on the connex's should remain intact while repainting the surfaces.

4. Please contact me if there are any questions (515) 285-8432.

Richelle Neff

Attch

RICHELLE NEFF
Environmental Specialist
REMSA, For the 89th RSC

USAR FACILITIES SUPPORT REQUEST

For use of this form, see 89th RSC Pam 420-1; the proponent agency is the Office of the Deputy Chief of Staff, Engineer.

THIS FORM MAY BE TRANSMITTED W/O FAX HEADER TO:
HQ, 89TH RSC, ATTN: ODCSENGR

PART A - To be completed by requestor

WORK REQUEST NUMBER			DATE INITIATED			FACILITY ID CODE	FACILITY NAME AND LOCATION
REQUESTOR ID CODE	REQUEST SERIAL NUMBER	FY / TYPE	YEAR	MONTH	DAY		
J19	00034	7 J	97	03	25	IA019	BURLINGTON MEMORIAL USARC MIDDLETOWN, IA

IS THIS A REQUEST FOR LOCAL PURCHASE? YES [ ] NO [ ] IF YES, PROVIDE RECOMMENDED VENDOR, PRICE QUOTE, PURCHASE MEANS, AND PO#, AS APPROPRIATE.

RECOMMENDED VENDOR: Diamond Vogel Paint

EST. COST $ 375.00

METHOD OF PAYMENT: [X] CREDIT CARD [ ] STD FORM 44 ------> PO # [ ]

DESCRIPTION OF REQUIREMENT [X] EMERGENCY / IMMEDIATE [ ] NON-EMERGENCY / LONG-RANGE

Paint to redo do facility connex's that we were given by the Iowa Army Ammunition Plant.

(NOTE: ALL PURCHASES REQUIRE PRIOR APPROVAL OF 89TH RSC)
ATTACH CONTINUATION PAGES, VENDOR QUOTES, SKETCHES, AND/OR OTHER SUPPORTING INFORMATION AS APPROPRIATE

JUSTIFICATION FOR REQUIREMENT

We need the paint to cover the areas that we did repairs to connex's. The paint will make it so that they will better match the appearance of this facility.

AUTHORIZED REQUESTOR (FACILITY MANAGER OR OIC)	PHONE	SIGNATURE
RICHARD E. HESTER JR	319-392-4296	Richard E Hester Jr

PART B - To be completed by Regional Engineer

PROJECT DESCRIPTION:

CHG NO.:

FOR LOCAL PURCHASE

CONTROL/DOCUMENT NO.:

APC: 7QBK

MONTH CODE: 10

WORK CLASSIFICATION: A J (K) L M T Z

PROJECT STATUS:

PROJECT NO.:

REQUIREMENT TYPE: APR BMAR IMP SF44 (OT) OTHER

APPROVAL STATUS:

WORK TO BE DONE BY:

INPUT BY:

APPROPRIATION: OMAR

SPECIAL INTEREST:

REMARKS: EOR: 25CH

DATE RECEIVED (INPUT DATE) Y Y M M D D

PRIMARY MDEP: QDAR

IFS INDIC.:

SAT#:

FUND STATUS: F U S

APPROVAL DATE: 970717 (Y Y M M D D)

ESTIMATE:

FY	TYPE	COST
97	I	$ 375.00

TDAC DESCRIPTION: TRDG Bldg

ENVIRONMENTAL IMPACT: (Y) N ACTION:

REMARKS:

APPROVED BY: [signature]

89TH RSC FORM 1 SEP 95 420-1-R

USAR FACILITIES SUPPORT REQUEST

For use of this form, see 89th RSC Pam 420-1; the proponent agency is the Office of the Deputy Chief of Staff, Engineer.

THIS FORM MAY BE TRANSMITTED W/O FAX HEADER TO:
HQ, 89TH RSC, ATTN: ODCSENGR

PART A - To be completed by requestor

WORK REQUEST NUMBER				DATE INITIATED			FACILITY ID CODE	FACILITY NAME AND LOCATION
REQUESTOR ID CODE	REQUEST SERIAL NUMBER	FY	TYPE	YEAR	MONTH	DAY		Burlington Memorial USARC
J19	000372		J	97	03	10	IA019	Middletown, IA

IS THIS A REQUEST FOR LOCAL PURCHASE? YES [ ] NO [ ] IF YES, PROVIDE RECOMMENDED VENDOR, PRICE QUOTE, PURCHASE MEANS, AND PO#, AS APPROPRIATE.

RECOMMENDED VENDOR: Lowes Home Improvement
EST. COST $ 383.35
METHOD OF PAYMENT: [X] CREDIT CARD [ ] STD FORM 44 ------> PO #

DESCRIPTION OF REQUIREMENT [X] EMERGENCY / IMMEDIATE [ ] NON-EMERGENCY / LONG-RANGE

PAINT 20 gal $300.00
Tray-Rollers 5 20.60
drop cloth 4 33.00
Brushes 10 24.40
PAINT Guide 5 5.35

PAINT The GARAGE BAY Doors and Metal Doors

(NOTE: ALL PURCHASES REQUIRE PRIOR APPROVAL OF 89TH RSC)
ATTACH CONTINUATION PAGES, VENDOR QUOTES, SKETCHES, AND/OR OTHER SUPPORTING INFORMATION AS APPROPRIATE

JUSTIFICATION FOR REQUIREMENT: Per The Unit From 89th RSC This PAST Weekend From Col Price, Col Roman, MAJ Hamm. They want to See The GARAGE doors PAINTED. They are Peeling From The winter WEATHER

AUTHORIZED REQUESTOR (FACILITY MANAGER OR OIC)	PHONE	SIGNATURE
RICHARD E. HESTER JR	319-392-4296	Richard E. Hester Jr

PART B - To be completed by Regional Engineer

PROJECT DESCRIPTION:

CHG NO.

FOR LOCAL PURCHASE

CONTROL/DOCUMENT NO.:

APC: 7QBW
MONTH CODE: 10

WORK CLASSIFICATION: A J (K) L M T Z
PROJECT STATUS:
PROJECT NO.:
REQUIREMENT TYPE: ARR BMAR IMP SF44 (OTR) OTHER
APPROVAL STATUS: 4
WORK TO BE DONE BY:

INPUT BY:
APPROPRIATION: OMAR
SPECIAL INTEREST:
REMARKS: EDR: 25C4
DATE RECEIVED (INPUT DATE) Y Y M M D D
PRIMARY MDEP: QRAR
IFS INDIC:
SAT#:
FUND STATUS: F U S
APPROVAL DATE: 97 07 17 (Y Y M M D D)

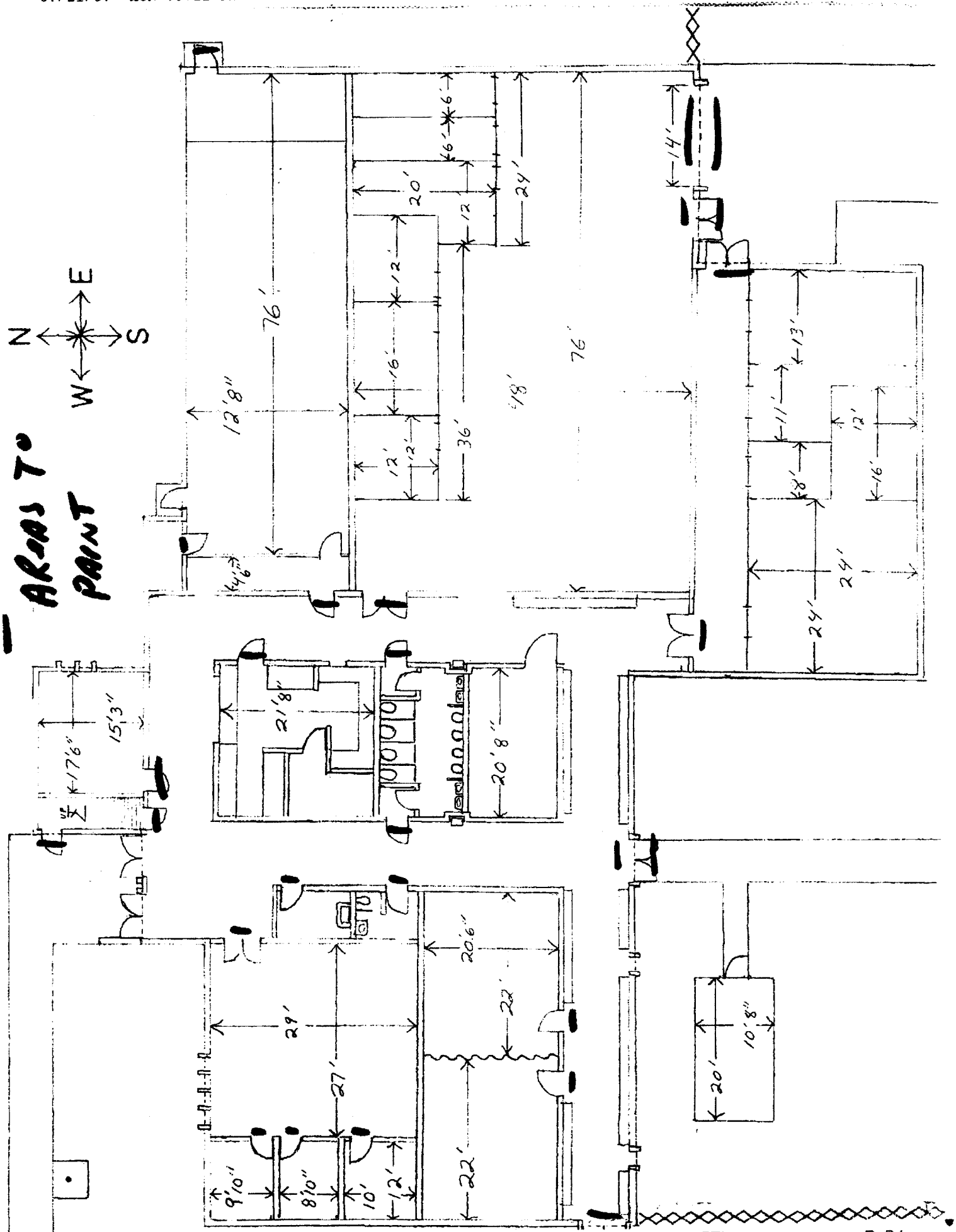
ESTIMATE:
FY: 97
TYPE: I
COST: $ 383 35

ENVIRONMENTAL IMPACT: (Y) N
ACTION:
REMARKS:

TDAC DESCRIPTION:

APPROVED BY:

89TH RSC FORM 1 SEP 95 420-1-R


AREAS TO PAINT
N
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76'
12'8"
6'
6'
20'
12'
24'
12'
12'
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14'
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11'
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21'8"
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17'6"
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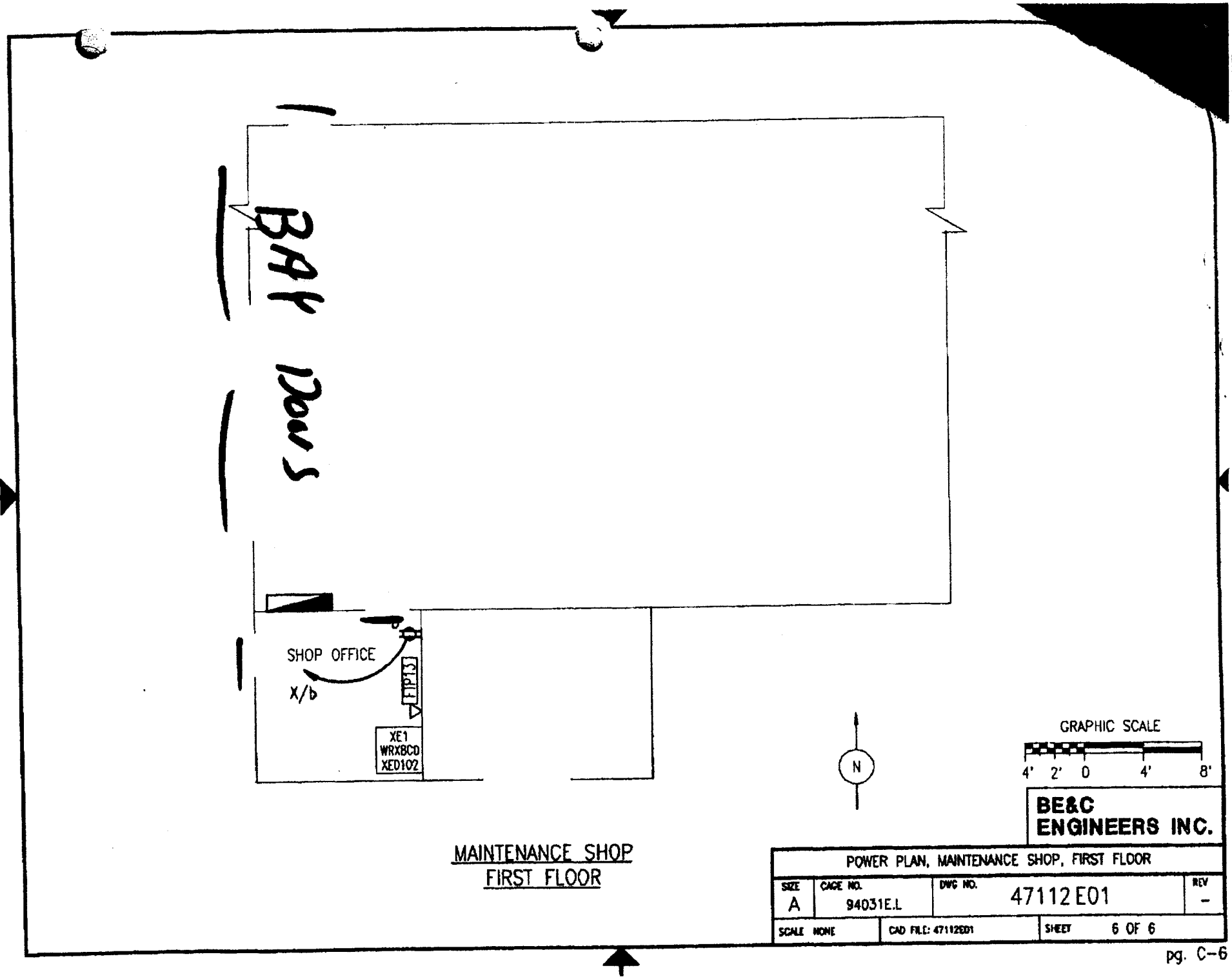
20'



MAINTENANCE SHOP
FIRST FLOOR

BE&C ENGINEERS INC.

POWER PLAN, MAINTENANCE SHOP, FIRST FLOOR			
SIZE A	CAGE NO. 94031E.L	DWG NO. 47112E01	REV -
SCALE NONE	CAD FILE: 47112E01	SHEET 6 OF 6	

DEPARTMENT OF THE ARMY

U.S. ARMY CENTER FOR HEALTH PROMOTION AND PREVENTIVE MEDICINE
DIRECT SUPPORT ACTIVITY-WEST
U.S. ARMY GARRISON, FITZSIMONS
AURORA, COLORADO 80045-5001

REPLY TO
ATTENTION OF

MCHB -AW-L (40-5e)

8 August 1997

MEMORANDUM FOR Commander, U.S. Army Medical Training Center, ATTN: Maria Lehner, 6511 Chaffee Rd., Des Moines, IA 50315-6308

SUBJECT: Industrial Hygiene Analytical Results

1. Analytical results of industrial hygiene (IH) samples submitted to our laboratory is attached.

2. Air sampling results are reported by calculating the media correction factor if media blanks are submitted. Media blanks that have been found to be significantly higher than normal are highlighted on the analysis sheet.

3. **REMINDERS.**

a. General Guidance. Follow instructions in USAEHA Technical Guide 141, Industrial Hygiene Air Sampling and Bulk Sampling Instructions, December 1990.

b. Recordkeeping. Maintain the attached analytical IH sample results IAW Federal Law Records.

c. Blanks. Submit two blanks with all IH air samples-(1) a field blank and (2) a sealed and unexposed media blank.

d. Coordination. Contact the Environmental Laboratory Division, at DSA-West at DSN: 943-8288 or Comm (303) 361-8288 **BEFORE SAMPLING**:

(1) For prompt and efficient handling of your samples;

(2) For sampling advice;

(3) For quality assurance guidance; (e.g., field blanks, shipping requirements, etc.);

(4) For express handling, i.e., quick turnaround time;

(5) For batch submissions of 10 or more samples.

e. Interpretation of Results: Contact the Industrial Hygiene Division at DSA-West at DSN: 943-3293 or Comm (303) 361-3293 for assistance on interpretation of results.

FOR THE COMMANDER:

Encl

DAVID F. MORROW
Chief, Environmental Laboratory
Division

Readiness thru Health

USAR MEDICAL TRAINING CENTER
ATTN: MARIA LEHNER
6511 CHAFFEE RD
DES MOINES, IA 50315-6308

Chain of Custody Record

№ 0013

ENVIRONMENTAL ANALYSIS

Site: USARMC - Middletown

Purpose of analysis: lead analysis

Samplers (signature):

Date	Time	Comp.	Grab	Sample ID	Total Number of Containers	VOC Vials	Amber Jars	Clear Jars	Polypropylene Bottles	Bags			Analysis Required
31 Jul	1500		x	PM-1	1				1				% lead by weight - Main bldg Bay door
31 Jul	1500		x	PM-2	1				1				" " - double door
31 Jul	1500		x	PM-3	1				1				" " - CMS - Baydoor
31 Jul	1500		x	PM-4	1				1				" " - Connex 1
31 Jul	1500		x	PM-5	1				1				" " - Connex 2
31 Jul	1500		x	PM-6	1				1				" " - Connex 3
31 Jul	1500		x	PM-7	1				1				" " - Connex 4
31 Jul	1500		x	PM-8	1				1				" " - Connex 5

Relinquished by (signature):	Date/Time	Received by (signature):	Relinquished by (signature):	Date/Time	Received by (signature):
Maria Lehner	1500 31 Jul 97			5 Aug 97	
Relinquished by (signature):	Date/Time	Received by (signature):	Relinquished by (signature):	Date/Time	Received by (signature):
Relinquished by (signature):	Date/Time	Received for Laboratory by (signature):	Date/Time	Remarks	

BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is ESHB-LO.

Return Address (complete address including Zip Code) USAR MEDICAL TRAINING CENTER ATTN: MARIA LEHNER 6511 CHAFFEE RD., DES MOINES, IA 50315-6308	Point of Contact (name/AUTOVON) MARIA LEHNER (515)285-8432

Sampled Installation USARTC- Middletown, IA	Project Number	ARLOC
Samples Collected By Maria Lehner	Date Collected 31 Jul 97	Date Shipped 1 Aug 97
Description of Operation Paint samples		Location (BLDG/AREA) Main bldg / OMS / Connexs

Associated Complaints (be specific)

Associated Air Samples ☐ Yes ☒ No — If yes, list sample numbers

Label Information

Trade Name	NSN	Manufacturer

Address	MSDS Attached
	☐ Yes ☐ No

Analysis Desired
% lead by weight

Lab Use Only	Sample No.	Constituents	Results	Remarks
97217 21	PM-1	gray paint	0.037	Main bldg. S. baydoor w/white primer
22	PM-2	gray paint	0.019	Main bldg. double door - S. w/red primer
23	PM-3	gray paint	0.030	OMS - Baydoor w/white primer
24	PM-4	green paint	0.029	Connex - 1 two layers green paint
25	PM-5	green paint	4.5	Connex - 2 2 layers green paint
26	PM-6	green paint	2.5	Connex 3 2 layers green paint
27	PM-7	green paint	0.034	Connex 4 2 layers
28	PM-8	green paint	2.1	Connex 5 2 layers

Comments to Lab:

REPORT APPLIES ONLY TO TESTED ITEMS. REPRODUCTION REQUIRES ENTIRE REPORT TO BE REPRODUCED. REFERENCE METHOD AND QUALITY CONTROL AVAILABLE UPON REQUEST.

Laboratory Only

Analyst (initials)	Reviewed by (initials)	Date Received	Date Reported
KR/24.		5 Aug 97	8 Aug 97

Procedures Performed | Comments

DAVID F. MORROW
C, ELD
USACHPPM, DSA-W
FAMC, BLDG 602, 2nd FLR-W
AURORA, CO 80045-5001

AEHA Form 3 R 1 Oct 84

BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is ESEB-LO.

Return Address (complete address including Zip Code) USAR MEDICAL TRAINING CENTER ATTN: MARIA LEHNER 6511 CHAFFEE RD., DES MOINES, IA 50315-6308	Point of Contact (name/AUTOVON) MARIA LEHNER (515)285-8432

Sampled Installation USARTC - Middletown, IA	Project Number	ARLOC
Samples Collected By Maria Lehner	Date Collected 31 Jul 97	Date Shipped 1 Aug 97
Description of Operation Paint samples		Location (BLDG/AREA) Main bldg / OMS / Connexs

Associated Complaints (be specific)

Associated Air Samples ☐ Yes ☒ No — If yes, list sample numbers

Label Information

Trade Name	NSN	Manufacturer

Address

MSDS Attached ☐ Yes ☐ No

Analysis Desired: % lead by weight

Lab Use Only	Sample No.	Constituents	Results	Remarks
97217 21	PM-1	gray paint	0.037	Main bldg. S. bay door w/white primer
22	PM-2	gray paint	0.019	Main bldg. double door - S. w/red primer
23	PM-3	gray paint	0.030	OMS - Bay door w/white primer
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27	PM-7	green paint	0.034	Connex 4 2 layers
28	PM-8	green paint	2.1	Connex 5 2 layers

Comments to Lab:

REPORT APPLIES ONLY TO TESTED ITEMS. REPRODUCTION REQUIRES ENTIRE REPORT TO BE REPRODUCED. REFERENCE METHOD AND QUALITY CONTROL AVAILABLE UPON REQUEST.

Laboratory Only

Analyst (initials)	Reviewed by (initials)	Date Received	Date Reported
KR/24		5 Aug 97	8 Aug 97

Procedures Performed | Comments

DAVID F. MORROW
C, ELD
USACHPPM, DSA-W
FAMC, BLDG 602, 2nd FLR-W
AURORA, CO 80045-5001

AEHA Form 6 R 1 Oct 84

RADON

DEPARTMENT OF THE ARMY
HEADQUARTERS FORT McCOY
SPARTA, WISCONSIN 54656

REPLY TO
ATTENTION OF

AFZR-DE-E (200-1c)

MEMORANDUM FOR FACILITY MANAGER, USARC, P.O. Box 130, Middleton, IA 52638-9700 (Burlington)

SUBJECT: Fort McCoy Radon Program

1. This memorandum is in reference to results of the Fort McCoy Radon Program.

2. The radon gas levels found at your facility were below 4.0 picocuries per liter, the Environmental Protection Agency's recommended action level for radon gas. Therefore, no further testing or mitigation will be required at your facility.

3. A copy of your facility's test results are enclosed. If you have any further questions please contact Ms. Elisabeth Carey, Environmental Management Office at (608) 388-2160 or AV 280-2160.

FOR THE COMMANDER:

1 Encl
as

MARVIN W. WESTENBURG
LTC, EN
Director, DE

REPRODUCED AT GOVERNMENT EXPENSE

Average Radon Concentration

Serial Number	Facility	Building Number	Radon Concentration piC/liter	Floor	ROOM NUMBER	DETECTOR LOCATION
001477455	BURLINGTON		0.2	1	0	IN HALLWAY UNDER SHELVES NEXT TO WATER FOUNTAIN
001477425	BURLINGTON		0.8	1	0	CLASSROOM CHALKBOARD - UPPER R
001477442	BURLINGTON		0.7	1	0	DRILL - 1ST GEN. CONSTR. CAGE
001531813	BURLINGTON		1.1	1	0	MAIN OFFICE - INSIDE DOOR ON BOOKCASE
001477459	BURLINGTON		0.7	1	0	HALLWAY - UNDER SHELVES NEXT TO DRINKING FOUNTAIN
001531807	BURLINGTON		0.7	1	0	MAIN OFFICE - FAR CORNER ON WHITE SHELF
001477438	BURLINGTON		0.9	1	0	TOP OF COMPUTER C. BULLETIN BOARD
001477440	BURLINGTON		0.7	1	0	DRILL HALL CAGES - 1ST SET LEFT
001477467	BURLINGTON		0.9	1	0	STORAGE AREA - UPPER RIGHT AS ENTER

DRINKING WATER

13.0 IA019 - BURLINGTON MEMORIAL USARC

Summary of conversations:

Riverfront contacted SFC Michael Shea of the Burlington Memorial USARC to obtain information regarding drinking water at the facility. Mr. Shea stated that the facility obtains its water from the city. He also stated that he has not received any complaints about the tap water and he is not aware of any notices of violation from the water company.

Riverfront also contacted Mr. Josh Shirkey of Middletown Public Works, a community PWS. Mr. Shirkey stated that they have not had any violations except a high trihalomethane level. This problem was remedied by the Iowa Department of Natural Resources when they changed the chemical used to chlorinate the water. He also stated that the water distribution system is in good condition.

13.1 Recommendations

No testing is recommended for this facility at this time.

13.2 Public Water Supply (PWS) Contact

Name: Middletown Public Works
Address: 120 Mechanic Street
Middletown, Iowa 52638
Phone number: (319) 572-0234
Contact: Josh Shirkey

RIVERFRONT ENVIRONMENTAL

1139 Olive Street, Suite 300
St. Louis, Missouri 63101
Ph (314) 436-9492 – Fx (314) 436-9733

RECORD OF COMMUNICATION

Name:	KLD	**Date/Time:**	12/6/05
Communications With:	SFC Michael Shea	**Project No:**	5336-01
Company:	Burlington Memorial USARC	**Project Name:**	Drinking Water Surveys
Address:	17879 Highway 79	**Phone:**	319-392-4295
	Middletown, IA 52638	**Fax:**	

Subject: Drinking Water Annual Consumer Confidence Reports

Communications Via:

- ☒ **Telephone Conversation**
- ☐ **Meeting at** _____
- ☐ **Project site** _____
- ☐ **Other** _____

Summary of Communication:

12/6/05: No answer. LM

12/8/05: No problems with water, on municipal. Plumbing is in good condition and have been notified of no violations from the PWS.

Follow up Required:

RIVERFRONT ENVIRONMENTAL

1139 Olive Street, Suite 300
St. Louis, Missouri 63101
Ph (314) 436-9492 – Fx (314) 436-9733

RECORD OF COMMUNICATION

Name:	Katie Dietrich	**Date/Time:**	12/6/05
Communications With:		**Project No:**	5336-01
Company:	Middletown Public Works	**Project Name:**	Drinking Water Surveys
Address:	120 Mechanic St.	**Phone:**	319-572-0234
	Middletown, IA 52638	**Fax:**	

Subject: Annual Consumer Confidence Reports & Violations

Communications Via:

- ☒ **Telephone Conversation**
- ☐ **Meeting at** _____
- ☐ **Project site** _____
- ☐ **Other** _____

Summary of Communication:

12/8/05: Called, no answer.

12/8/05: Josh Shirkey. Get CCR from city clerk. Good condition of delivery system. No violations except triholomethane, by-product of chlorine. Everyone was violating and so IDNR recommended they switch to ammonia chloromene instead of chlorine in order to bypass that problem. No violations since then.

City Clerk: 319-752-8340.

Follow up Required:

2004 WATER QUALITY REPORT
FOR
MIDDLETOWN WATER SUPPLY

This report contains important information regarding the water quality in our water system. The City of Middletown purchases water from Burlington Waterworks. The source of this water is both groundwater and surface water. Approximately eighty percent (80%) comes from the Mississippi River. The remaining 20% comes from 3 wells in the Pleistocene aquifer. The Pleistocene aquifer was determined to be highly susceptible to contamination because the characteristics of the aquifer and overlying materials allow contaminants to move through the aquifer fairly quickly. The wells will be most susceptible to activities such as gas stations, industrial sites, and municipal wastewater discharges. A detailed evaluation of your source water was completed by the Iowa Department of Natural Resources, and is available from Middletown City Hall at 319 752-8340. Water quality testing shows the following results:

CONTAMINANT	MCLG	MCL	DETECTED LEVEL	DATE SAMPLED	RANGE OF DETECTION	VIOLATION	SOURCE
Copper (ppm)	0	AL=1.3	0.063	9/30/02		NO	Corrosion of household plumbing systems
*Turbidity	N/A	0.5 NTU	0.05	N/A	0.01-0.05	NO	Soil runoff
*Fluoride (ppm)	4	4	1.12	N/A	0.37-1.56	NO	Water additive which promotes strong teeth
*Nitrate [as N] (ppm)	10	10	2.1	N/A	ND – 3.7	NO	Erosion of natural deposits
*Sodium (ppm)	N/A	N/A	22.8	N/A	N/A	NO	Erosion of natural deposits
*Barium (ppm)	2	2	0.011	N/A	N/A	NO	Erosion of natural deposits
*Atrazine (ppb)	3	3	0.0002			NO	Runoff from herbicide used on rowcrops
Toluene (ppm)	1	1	0.0007		0.0005– 0.0007	NO	Discharge from petroleum factories
Total Organic Carbon (TOC) (ppm)	N/A	TT	27.66% – 61.97%, 25% removal is required			NO	Naturally present in the environment

Note: Contaminants with dates indicate results from the most recent testing done in accordance with regulations.
* Indicates water quality test information provided by Burlington Waterworks

DEFINITIONS

- Maximum Contaminant Level (MCL) – The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- Maximum Contaminant Level Goal (MCLG) -- The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- "ppb" -- "parts per billion."
- "ppm" -- "parts per million."
- ND -- Not detected
- NTU -- Nephelometric Turbidity Units
- RAA – Running Annual Average. Range is listed from all components of RAA.
- Treatment Technique – A required process intended to reduce the level of a contaminant in drinking water.
- Variances and Exemptions – State permission not to meet an MCL or a treatment technique under certain conditions.
- Action Level – The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

GENERAL INFORMATION

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water posed a health risk. More information about contaminants or potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791). Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

CONTACT INFORMATION

For questions regarding this information, please contact **Middletown City Hall at 319-752-8340** during the following hours: **Monday, Wednesday, and Friday 8:30 am – 5:00 pm.**
Decisions regarding the water system are made by the **Middletown City Council** at meetings held on the **2nd Monday of each month at 6:30 pm at Middletown City Hall**, and are open to the public.

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER
Middletown Water Supply Has Levels of Total Trihalomethanes Above Drinking Water Standards

Our water system recently violated a drinking water standard. Although this is not an emergency, as our customers, you have a right to know what happened, what you should do, and what we are doing to correct the situation.

We routinely monitor for the presence of drinking water contaminants. Testing results were received on December 19, 2005 show that our system exceeds the standard or maximum contaminant level (MCL), for total trihalomethanes. The standard for total trihalomethanes is 0.080 mg/L. The average level of total trihalomethanes over the last year was 0.111 mg/L.

What should I do?

- **You do not need to use an alternative (e.g., bottled) water supply.** However, if you have specific health concerns consult your doctor.

What does this mean?

This is not an immediate risk. If it had been, you would have been notified immediately. However, some people who drink water-containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increased risk of getting cancer.

What happened? What is being done?

We have been informed by the IDNR that an operation permit with appendix was issued to the Burlington Municipal Waterworks on August 23, 2005. Burlington is the water provider to MIDDLETOWN WATER SUPPLY. The appendix contains a compliance schedule for Burlington to have system disinfection changes completed by June 30, 2006, to be in compliance with the TTHM MCL of 0.80 mg/L.

For more information, please contact Josh Shirkey at 319-752-8340.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools or businesses). You can do this by posting this notice in a public place or distributing copies by had or mail.

This notice is being sent to you by Middletown Water Supply. PWSID #2952075
Date distributed: February 1, 2006.

STAFF ASSISTANCE VISITS

MR R SAHLER

AFRC-AMN-EN Mr L Nelson/725-5272
SUBJECT: 20Sep-22Sep93 Trip Report - SE Iowa Facilities

MEMORANDUM FOR RECORD 4 Oct 93

1500 HRS - 20 Sep Burlington Memorial, Middletown, IA

- Dominant issue is whether indeed the Reserve Center at Middletown is part of Ft McCoy's government-owned properties or on an ISSA with the Iowa Army Ammunition Plant. Mr Hester gave me a list of telephone numbers for the IAAP.

- The facility was repainted approx 1989-90. There is a Contract issued to correct the fire hydrant. Mr Hester received the specs from Mr Norb Adams, OPFD, to the effect.

- Other issues needing resolution are:
  Flagpole needs to be repainted as well as the rope needing repl.
  The Ctr front security light needs replacement.
  Front window doors need panic bars.
  The Center does have a ramp for handicap-accessibility on north.

- OMS
  Of the three overhead heaters, the middle does not work.
  Eyewash intermittently works.
  Insulation is needed on the overhead doors while two OH Electric Openers are needed.
  Recommend that the east daylight windows need double glaze glass, as well as the office south and west windows on the OMS SW corner.

0800 HRS - 21 Sep Mt Pleasant, IA Reserve Center

- Overall the facility is well-kept. A new roof was constructed for both the Ctr & OMS approx 6-7 yrs ago (1986-1987). The Ctr has the original floor tiles (circa 1957) is good shape with a few 9x9 that need to be replaced. The Ctr has handicap accessibility on the west side (ramp having been built by 389 in 1992 - surface has some surface porosity). Drainage off the MEP is towards the southeast.

- Items meriting attention:
  Flagpole needs to be repainted with new rope replacement.
  Tile near east Ctr door needs replacement as well as near west doors in the classroom area.
  Light globe (OMS east outer wall) needs repl.
  Tuckpointing on the OMS east outer wall needed.
  Need a hole plug (0.50 dia) on the northern of the west dbl doors.

"OFFICIAL GOVERNMENT MATERIAL"

RECORD OF STAFF VISIT

Unit Visited:	Place:	Date of Visit:
Middletown USARTC	Middletown, IA	07 Apr 1995

1. Type of Visit: Facility Environmental Management and Energy Conservation Inspection.

2. Individual (s) of the 89th RSC conducting the visit.

LTC Alan R. Swarts, Engineer Staff, 89th RSC

3. Entrance and exit briefings were conducted. The following personnel were present and/or contacted during the visit:

SFC Paul Shaw, Supply NCO
SFC Jerry Mason, Maintenance NCO

Facility Manager was at AT

4. Purpose: To evaluate the management and condition of the facility.

5. Summary/Recommendations: Facility/Environmental Management is Satisfactory: There is sufficient land available for expansion if required. The facility is boarded by farm land that would provide room for expansion if required.

6. Facilities/Environmental Management: Facilities operations and maintenance were reviewed and an overall Facilities Management rating of Satisfactory has bee assessed. Observations and/or assistance was provided in the following categories listed below. Deficiencies and/or comments are noted as reference to the USARC PAM 20-1, 89th RSC PAM 420-1, 89th RSC PAM 200-1c and the USAR Energy Conservation and Facility Quarterly Checklist as follows:

a. Organization and Installation Property: Not Rated

(1) This facility is located on the edge of the Iowa Army Ammunition Plant and boarded by farmland. It is a brick faced, cinderblock wall structure that is in need of various repairs. When entering from the west side exit you would swear you were entering a hallway in a school with lockers lining the walls.

(2) The facility houses a Engineer Company (-).

(3) This facility is overcrowded with two many vehicles and equipment.

(4) There is supply caging in the drill hall area.

(5) This facility will require a new facility sign.

(6) This facility has an operational indoor range. (5 points)

(7) The exterior grounds were well maintained.

b. Security and Physical Security: Not Rated

(1) Security fencing around the MEP parking area is satisfactory.

(2) Security lighting is operational and adequate.

c. Security of Arms and Ammunition: Not Rated

The arms room meets construction standards. The vault had a certification date of 931104.

d. Environmental Management: Not Rated

(1) Must be provided HMIS CD

(2) Facility personnel need to attend Hazardous Wastage Management training.

(3) Facility has MSDS sheets but they are not located with the stored materials.

(4) No Radon survey has been conducted on this facility.

(5) Center has large waste collection point.

(6) Indoor range has not had a air sampling done by an Industrial Hygienist to determine lead levels.

(7) Facility has one small spill response kit.

e. Facility Management: Not Rated

(1) Facility Manager must be appointed as Fire Marshall and attend required Fire Marshall training.

(2) Fire extinguishers are not being inspected and fire drills are not being conducted.

(3) The Custodial Contractor appears to be doing a satisfactory job.

f. Storage: Not Rated

This facility was inspected for cleanliness, orderliness and proper storage of equipment and materials. Offices were ınd to be neatly arranged and organized. Tops of file cabinets were free of debris, paper and books. The unit is storing too ch equipment at the facility and the MEP is extremely crowded.

g. Facility Maintenance: Not Rated

(1) The overhead doors in the drill hall and OMS building are not energy efficient. There are large gaps between the doors and the frames and along the bottom of the doors. They should be replaced or insulated around the frames and bottom of the doors. Electric openers for the doors would be beneficial.

(2) There is a leak around the ventilation duct in the ceiling in the drill hall area.

(3) Windows in OMS building are not energy efficient (old windows) and should be replaced.

(4) There is a hole in the MEP area that needs repair and there are a lot of large cracks in the MEP area. MEP area needs resurfacing.

(5) Copies of DA Form 4283's, work order requests, are attached for all work orders identified.

h. Unauthorized Use of Facilities: Not Rated

POV's were being stored in the MEP area belonging to unit members who were in Honduras for their AT. The commanders car was one of them.

7. Follow-up Action: The Facility Manager and Facility OIC will correct the identified deficiencies NLT 90 days from the date of this report. Additional Engineer assistance from this headquarters is available upon request.

a. A follow-up inspection isn't required.

b. A written reply to this report isn't required.

(ADDITIONAL COMMENTS)

This staff assistance visit was a courtesy visit/initial evaluation and was not rated. A copy of the 89th ARCOM PAM 420-1, Facility Management Procedures was presented to the Facility Manager. Some of the changes, and how they will impact on future facility operations, were discussed. The Facility Manager indicated that facility files and appointment orders had not been maintained and Facility Closure Plans and ICARPUS reports had not been required an explanation of these requirements was given and DCSEN will provide a generic copy of both reports, on disk, to begin the process. In addition DCSEN will also supply, on disk, a generic SOP for facility operations. This visit provided the DCSEN staff with the opportunity to evaluate the needs of this facility, meet the people involved, and start the process of assimilating this Iowa facility into the 89th RSC.

Typed Name, Grade, and Unit Assignment of Visiting Officer:	Signature of Visiting Officer	Date Prepared: 20 January 1996
IVAN W. O'BRIEN, COL, RSC ENGINEER HQ, 89th U.S. RSC		
Typed Name and Grade of Reviewing Officer:	Signature of Reviewing Officer:	

DISTRIBUTION: (May be adjusted as necessary) 1 - Unit Concerned
Original - DCSENG 1-Cmd & Control 2 - Engr Section 1 - DCSLOG Unit/File

USAR ENERGY CONSERVATION AND FACILITY
QUARTERLY CHECKLIST
89TH US ARCOM

LOCATION: AKA BURLINGTON MIDDLETOWN, IA

DATE: 4-7-95

TYPE OF FACILITY: LEASED [ ] GOVT OWNED [X]

	YES	NO
1. Are the Facility Files established IAW 89th (=) ARCOM PAM 420-1 to include:		X
a. SOP/annexes (420-10a)		
b. Appointment orders (420)		
c. Service Contracts (420-17a); Leases if applicable (405-80a)		
d. Work order requests/work order register (420-17e)		
e. Hazardous Waste files - Manifest and Safety clean contract, if applicable (200-1a)		
f. Quarterly Inspection Reports (420-10a)		
g. Real Property Management Board Minutes if applicable (420-10a)		
h. Staff Visit Reports (20)		
i. Energy Conservation File (11-27c)		
j. Fire Prevention (420-90a)		
2. Is the published facility SOP IAW 89th ARCOM (=) PAM 420-1 and does it address:		
a. General administration (Duties and Responsibilities of Facility OIC/Manager)		
b. Security		
c. Safety		
d. Hazardous Waste Management SOP		
e. Energy Conservation		
f. Fire Prevention		
g. Emergency Repairs, Self-help, Service Contracts		
h. Facility Closure Plan (500-5a)		
3. Are current facility appointment orders on file (=) for the following:		
a. Officer in Charge (OIC)	X	
b. Facility Manager	X	
c. Facility Property Book Officer	X	
d. Real Property Management Board and President, if applicable		
e. Contracting Officers Representative (COR)		
f. Facility Energy Conservation Officer (AR 11-17, para 1-6r(1))		
g. Facility Fire Marshall/Warden		
h. Facility Hazardous Waste Manager		

	YES	NO
i. Facility Hazardous Waste Work Team, if appl.		
j. Facility Spill Response Team, if appl.		
4. Does the facility have on hand all references listed on page ii of 89th ARCOM PAM 420-1?		
5. Are quarterly facility inspections conducted (=) by Facility OIC? (Last insp. date:)		X
6. Are semi-annual Real Property Management Board meetings conducted and minutes prepared? (=) (FORSCOM REG 5-9) (Date last meeting:)	N/A	
7. Does the facility have a copy of the facility (*) lease? (If applicable)	N/A	
8. Does the facility have a copy of the ICARPUS Report? (AR 465-70, para 107b) (Date of last update:)		X
9. Does the facility have a copy of the service contract(s) and are DD 250's and invoices being submitted on time for the following: (AR 420-81, para 3; FORSCOM REG 5-9, DEH SOP)		
a. Custodial	X	
b. Grounds Maintenance	X	
c. Heating/Air Conditioning Maintenance R+U TEAM		X
d. Refuse	X	
e. Pest Control		X
f. Snow Removal	X	
g. Fire Protection/Kitchen Equipment RU TEAM		X
10. Are service contracts being accomplished in (=) accordance with contract specificaitons?		
11. Is a work order register (89th ARCOM Form 44-43-R) being maintained for all Facility (=) Engineering Work Requests?		X
12. Are Facilities Engineering Work Requests (DA Form 4283) being submitted for necessary (*) repairs, emergencies and Self Help Materials?	X	
13. Is the user familiar with emergency repair procedures and with the Self Help Program? Is Self Help utilized to the fullest extent? (See #21)	X	
14. Is the arms storage area properly secured and (*) certified? (Certification date: 11-4-93)	X	
15. Are the interior and exterior painted surfaces in satisfactory condition?	X	
16. Are all previously identified deficiencies corrected or repaired?	X	
17. Are offices, corridors, bulletin boards, and the assembly hall clean, orderly and present (=) a professional appearance?	X	
18. Are windows and doors in proper working order weather sealed and can they be secured?		X
19. Is the kitchen, scullery and food storage area neat, clean and free of pests?	X	
20. Have all visible leaks in ceilings, walls, around windows, doors, gutters, basement walls or around vents been sealed or repaired?		X
21. Is all equipment stored and secured properly with all storage areas arranged neatly and utilized to the fullest possible extent?	X	
22. Have all potential fire, health, safety or security hazards been removed? (AR 420-90; (*) AR 385-10; FORSCOM REG 420-24; NFPA #101)	X	

DMS WINDOW PROC

DEILL HAL

89th U.S. ARCOM Form 44-17R, 21 Nov 93 Replaces 89th US ARCOM Form 44-17R dtd 1 June 88. All previous editions are obsolete.

AFRC-AKS-EN (20)

RECORD OF STAFF VISIT

Unit/Facility Visited:	Place:	Date of Visit:
Middletown - USARC	Middletown, IA	26 Oct 1995

1. Type of Visit: Environmental Management Inspection.

2. Individual(s) of the 89th RSC conducting the visit:

NAME RANK: Maria Lehner, Iowa Environmental Coordinator

3. Entrance and exit briefings we conducted. The following personnel were present and/or contacted during the visit:

NAME, RANK/GRADE/TITLE
Richard E. Hester Jr., Facility Manger, Facility Hazardous Waste Manger

4. Purpose: To evaluate the environmental management and conditions of the facility.

5. Summary/ Recommendations: Environmental Management was **not rated**.

6. Environmental Management: Environmental Management rating of **not rated** has been assessed. Observation and/or assistance was provided in the following categories listed below. Deficiencies and/or comments are noted as referenced to the 89th RSC PAM 200-1c and the Facility Quarterly Checklist as follows:

a. Approximately eight 55 gallon drums of oil and antifreeze were sitting outside of the maintenance shop. They did not have any secondary containment and were uncovered. The Facility Haz Waste Manager stated that he had called a local vendor to come and pump them out.

b. The storage room off of the maintenance building contained various hazardous materials (flammable and corrosive). This room did not meet all requirements to store flammable materials. The room also had a spill of about three to five gallons of oil on the floor. Some floor dry was thrown on top of it, but not enough to soak up the oil. The Facility Haz Waste Manager was going to clean up immediately.

c. There were incompatible materials stored near each other in this room. A five gallon can of dry cleaning flux (corrosive) was stored amongst five gallon cans of flammable

materials. The flux was separated from the flammable materials. MSDS's should be examined to assure correct compatibility storage.

d. There was also an excess of hazardous materials stored in this room. An inventory of this room needs to be conducted. All materials found in excess should be disposed of through DRMO.

e. The MSDS's need to be posted in the main building for chemicals stored in there.

f. No smoking within 50 feet needs to be placed on all sides of the hazardous material storage shed.

g. Five gallon cans of diesel were sitting outside near the washrack. Facility Haz Waste Manager was informed to move these into the storage shed.

h. Hazardous Communications and Hazardous Material Transport training has been scheduled for December. Roster sheets are to be signed and dated by attendees. These rosters should be kept in the environmental files, along with the certificates of any type of hazmat training.

i. In sufficient spill response and personal protective equipment was available. The facility hazardous wsate manager was supplied with a worksheet listing all needed equiment, prices and ordering information.

7. Follow-up Action. The Facility Hazardous Waste Manager and Facility OIC will correct the identified deficiencies NLT 90 days from the date of this report. Additional Environmental assistance from this headquarters is available upon request.

a. A follow-up inspection is/isn't required.

b. A written reply to this report **is/isn't** required.

(ADDITIONAL COMMENTS):

This staff assistance visit conducted this date was a courtesy visit and was not rated. The environmental files were set up and ready to be incorporated into the facility management files.

Typed Name, Grade, and Unit Assignment of Visiting Representative:	Signature of Visiting Rep.	Date Prepared:
MARIA LEHNER Iowa Environmental Coordinator, 89th RSC	Maria Lehner	1 Dec 95

Typed Name and Grade of Reviewing Officials:	Signature of Reviewing Officials	Date Signed:
STEVEN A. LAWSON, GS-11 Environmental Manager, HQ, 89th RSC		960109
MICHAEL D. HLADY LTC, EN, Regional Engineer, HQ 89th RSC		10 Jan 96

DISTRIBUTION: (May be adjusted as necessary) Original - DSCEN
1 - Facility Concerned 1 - Command & Control 3 - Engineer Section

USAR ENERGY CONSERVATION & FACILITY QUARTERLY CHECKLIST

(89th ~~ARCOM~~ RSC Pamphlet 420-1)

LOCATION:	DATE:
USARTC, Middletown, IA	17 Sep 94

TYPE OF FACILITY (check one): LEASED [ ] GOVT OWNED [X]

	YES	NO
1. Are the Facility Files established IAW (=) 89th ~~ARCOM~~ RSC Pam 420-1 to include		X
a. SOP/Annexes (420-10a)		X
b. Appointment Orders (420)	X	
c. Service Contracts (420-17a);	X	
d. Work Order Requests/Work Order Register (420-17e)	X	
e. Hazardous Waste Files - Manifest & Safety Clean Contract, if applicable (200 Series)		
f. Quarterly Inspection Reports (420-10a)	X	
g. Real Property Management Board Minutes if Applicable (420-10a)	N/A	
h. Staff Visit Reports (20)	X	
i. Energy Conservation File (11-27c) SOP	X	
L. Arms Room Certification (415-10a)	X	
j. Fire Prevention (420-10a)		
Biocides (if applicable) (405-80a)	N/A	
2. Is the Published Facility SOP IAW 89th (=) ~~ARCOM~~ RSC PAM 420-1 and does it address:		X
a. General Administration (Duties & Responsibilities of the Facility OIC/Manager)		X
b. Security	X	
c. Safety		X
d. Hazardous Waste Management SOP	X	
e. Energy Conservation		X
f. Fire Prevention		X
g. Emergency Repairs, Self-Help, Service Contracts		X
h. Facility Closure Plan (500-5a)		X
3. Are current facility appointment orders on file (=) for the following:		
a. Officer in Charge (OIC)		X
b. Facility Manager		X
c. Facility Property Book Officer	X	
d. Real Property Management Board & President, if applicable	N/A	
e. Contracting Officers Representative (COR)	N/A	
f. Facility Energy Conservation Coordinator (AR 11-17, para 1-6) Battalion and Higher	X	
g. Facility Fire Marshall/Warden	X	

	YES	NO
h. Facility Hazardous Waste Manager	X	
i. Facility Hazardous Waste Work Team	X	
j. Facility Spill Response Team (if applicable)	X	
4. Does the facility have on hand all references listed on page II of 89th ~~ARCOM~~ RSC Pam 420-1		X
5. Are quarterly facility inspections conducted by (=) Facility OIC? (Last Insp Date:)		X
6. Are semi-annual Real Property Management Board meetings conducted & minutes prepared? (FORSCOM (=) Reg 5-9) (Date Last Meeting:)	N/A	
7. Does the facility have a copy of the facility lease? (*) (if applicable)	N/A	
8. Does the facility have a copy of the ICARPUS Report? (AR 465-70, para 107b) (Date of Last Update:) 405-70a		X
9. Does the facility have a copy of the service contract(s) & are DD 250's & invoices being submitted on time for the following: (AR 420-81, para 3; FORSCOM Reg 5-9,		X
a. Custodial	X	
b. Grounds Maintenance		X
c. Heating/Air Conditioning Maintenance		X
d. Refuse		X
e. Pest Control		X
f. Snow Removal		X
g. Fire Protection/Kitchen Equipment		X
10. Are service contracts being accomplished in (=) accordance with contact specifications?	X	
11. Is a work order register (89th ~~ARCOM~~ RSC Form 42-5R) being maintained for all Facility Engineering Work (=) Requests?	X	
12. Are Facilities Engineering Work Requests (~~DA~~ 89RSC Form 420-1R) being submitted for necessary repairs, (*) emergencies and Self Help Materials?	X	
13. Is the user familiar with emergency repair procedures and with the Self Help Program?	X	
Is Self Help utilized to the fullest extent? (See 21)	X	
14. Is the arms storage area properly secured and (*) certified? (Certification Date: 11/93)(415-10a)	X	
15. Are the interior and exterior painted surfaces in satisfactory condition?		X

89TH ARCOM FORM 42-11R 1 Aug 94

(Replaces 89th ARCOM Form 44-17R, dated 25 May 94. All previous editions are obsolete)

USAR ENERGY CONSERVATION & FACILITY QUARTERLY CHECKLIST

LOCATION: USARTC - Middletown

DATE: 7 Sep 96

	YES	NO
16. Are all previously identified deficiencies addressed (*) through work orders?	X	
17. Are offices, corridors, bulletin boards, and the assembly hall clean, orderly and present a (=) professional appearance?		X
18. Are windows and doors in proper working order weather sealed and can they be secured?		X
19. Is the kitchen, scullery and food storage area neat, clean and free of pests?	X	
20. Have all visible leaks in ceilings, walls, around windows, doors, gutters, basement walls or around vents been sealed or repaired?		X
21. Is all equipment stored and secured properly with all storage areas arranged neatly and utilized to the fullest possible extent?		X
22. Have all potential fire, health, safety or security hazards been removed? (AR 420-90; AR 385-10; (*) FORSCOM Reg 420-24; NFPA #101)		X
23. Is the Fire Marshall conducting the required Fire Prevention Inspections and completing 89th ~~ARCOM~~ RSC (=) Form 42-9R? (Date Inspected:)		X
24. Have all unauthorized materials/items been rem- (*) oved from the boiler/furnace or mechanical room?		X
25. Are fire evacuation plans properly posted in (=) rooms? (=)		X
26. Are practice fire drills being conducted? (=) (Date Conducted: 4/96)	X	
27. Are fire extinguishers in place, charged, dated, inspected and is the correct type installed for (=) each specific area?		X
28. Is lighting, heating, and air conditioning minimized in areas that are not in continual use?	X	
29. Are thermostats set at 65 deg heating & 78 deg (=) IAW energy conservation directives?	X	
30. Does the facility have a small arms range? (Number of firing points:) (Caliber certified for:)	X	
31. Is the range: a. Operational?		X
b. Certified? (Date:)		X
c. Tested for Lead Contamination? (Date:)		X
32. Is the US Flag & the flag pole in good condition & is the flag properly displayed?		X
33. Is the OMS clean, neat & well maintained by the using units?	X	
34. Do the exterior grounds have a good appearance & are they well policed to include MEP & fences?	X	

	YES	NO
35. Are fences & gates in good repair, properly constr- (=) ucted & are gates secured properly?		X
36. Is the security lighting adequate on all buildings & (=) MEP & are all fixtures working properly? POV	X	
37. Are the parking areas (MEP & POV) surfaced adquately (free of potholes, severe cracks) & arranged in an orderly manner?		X
38. Are privately owned equipment & vehicles being stored, serviced, or repaired in the reserve center without higher headquarters approval? (89th ~~ARCOM~~ RSC (*) Pam 420-1)		X
39. Ocean Cargo Storage Containers: a. Does the center have any?	X	
b. Are they properly used, secured, maintained?		X
40. Does the Center have: a. Grease trap for the kitchen?	X	
b. Oil trap for wash rack?	X	
c. Oil separator for the maintenance area? (Date Last Checked:)	N/A	
d. Underground storage tanks?		X
41. Does center have a Hazardous Waste Collection Point?	X	
42. Is Hazardous/Controlled Waste stored & disposed (*) of properly?	X	
43. Does facility have spill response kits & are they (*) located properly? (Only at collection points)		X
44. Are Hazardous Waste/Hazardous Materials records kept in compliance with EPA, State & Federal Reg- (*) ulations? (89th ~~ARCOM~~ RSC Pam 200-1)	X	
45. Are the Facility Hazardous Waste Manager, Haz- ardous Waste Work Team & Spill Response Team (*) trained & is training being documented?	X	
46. Has training been provided for all ~~Facility~~/Unit personnel responsible for handling hazardous waste materials to include use, handling, storage, & disposition? (89 RSC Pam 200-1)	X	
47. Are Hazardous materials stored properly? (*)		X
48. Has training been provided for all Facility/Unit personnel who use hazardous materials? (Training (*) includes handling, storage, & use of MSD's) (HAZcom)	X	
49. Are MSDS sheets available where the materials (*) are stored?		X
50. Thirty-three percent of the subordinate units were (*) rated unsatisfactory (Battalion & higher).	N/A	
51 Does your facility have a recycling program?	X	
One (*) is Unsatisfactory Three (=)'s is Unsatisfactory		

REMARKS: *(Comments will reference the inspection items above)*

NAME, GRADE, TITLE, UNIT:

SIGNATURE:

AFRC-AKS-EN (20)

RECORD OF INSPECTIONS AND STAFF VISITS

Unit/Facility Visited:	Place:	Date of Visit:
USARTC	Middletown/Burlington, IA	15 April 1998

1. Type of Visit: Facility/Environmental Management and Energy Conservation Inspection.

2. Individual(s) of the 89th RSC conducting the visit:

NAME RANK/TITLE:

Ms. Richelle Neff, Iowa Environmental Coordinator, REMSA, Inc. for the 89th RSC

3. Entrance and exit briefings were conducted. The following personnel were present and/or contacted during the visit:

NAME, RANK/GRADE/TITLE
Mr. Richard Hester, Facility Manager/Facility Environmental Manager

4. Purpose: To evaluate the environmental management and conditions of the facility.

5. Summary/ Recommendations: Facility/Environmental Management and Energy Conservation is **not rated**. It appears that there is/is not sufficient land available for expansion if required.

6. Facilities/Environmental Management: Facilities operations, maintenance and environmental management were reviewed and an overall Facilities Management rating of **not rated** has been assessed. Observations and/or assistance were provided in the following categories listed below. Deficiencies and/or comments are noted as referenced to the USARC Pam 20-1, 89th RSC Pam 200-1, and the USAR Energy Conservation and Facility Quarterly Checklist as follows:

a. Organization and Installation Property: (Rating: NOT RATED)

b. Security and Physical Security: (Rating: NOT RATED)
1) Work request has been submitted to have a low area under the MEP fencing filled in.

c. Security of Arms and Ammunition: (Rating: NOT RATED)

d. Environmental Management: (Rating: NOT RATED)
1) Facility does not have a Hazardous Waste Management SOP on hand. A sample Hazardous Waste Management SOP was left with the Facility Manager to adapt to the Middletown USARTC. (reference: USAR Energy Conservation and Facility Quarterly Checklist).
2) Appointment orders for Facility Hazardous Waste Work Team and Facility Spill Response Team are not current. Update appointment orders.

e. Facility Management, including fire, safety, and health: (Rating: NOT RATED)
1) Facility does not have a General Administration SOP, Safety SOP, or a Facility Closure Plan. Sample SOPs were left with the Facility Manager to adapt to the Middletown USARTC. (reference: USAR Energy Conservation and Facility Quarterly Checklist)

2) Appointment orders for Facility OIC and Facility Manager are not current. Update appointment orders.
3) Order publications that are not on hand. (reference: 89th RSC PAM 420-1)
4) Facility OIC should conduct quarterly facility inspections and complete the USAR Energy Conservation and Facility Quarterly Checklist. (reference: 89th RSC PAM 420-1 section 2-5)

f. Storage: (Rating: NOT RATED)

g. Facility Maintaince (LEASED/**GOVERNMENT OWNED**): (Rating: NOT RATED)
1) Facility does not have an Energy Conservation SOP, Fire SOP or Emergency Repairs, Self-Help, Services Contract SOP. Sample SOPs were left with the Facility Manager to be adapted to the Middletown USARTC. (reference: USAR Energy Conservation and Facility Quarterly Checklist)
2) Existing doors are not energy efficient. (reference: 89th RSC PAM 420-1 section 3-14)
3) East hallway ceiling leaks. (reference: USAR Energy Conservation and Facility Quarterly Checklist)
4) Facility Fire Marshall conducts fire prevention inspections but does not complete form 42-9R. The Fire Marshall should continue to conduct the facility fire prevention inspections and complete form 42-9R. (reference: 89th RSC PAM 420-1 section 3-9 and USAR Energy Conservation and Facility Quarterly Checklist)
5) Old files stored in the boiler room should be removed. (reference: USAR Energy Conservation and Facility Quarterly Checklist)
6) Flag pole needs to be painted. Facility Manager should submit work request. (reference: USAR Energy Conservation and Facility Quarterly Checklist)
7) MEP and POV parking areas are in poor condition and need to be re-surfaced (reference: USAR Energy Conservation and Facility Quarterly Checklist)

h. Unauthorized Use of Facilities: (Rating: NOT RATED)

7. Follow-up Action. The Facility Hazardous Waste Manager and Facility OIC will correct the identified deficiencies NLT 90 days from the date of this report. Additional Engineer assistance from this headquarters is available upon request.

a. A follow-up inspection <u>is/is not</u> required.

b. A written reply to this report <u>is/is not</u> required.

ADDITIONAL COMMENTS:

a. The staff assistance visit conducted this date was not rated.

b. The visiting person reviewed and provided assistance on all facility management operational files at this location.

c. Copies of 89th RSC Form 42-11R USAR Energy Conservation and Facility Quarterly Checklist and the ECAS checklist were left with the Facility Environmental Manager upon departure.

d. A recent copy of the Commander's Guide to Environmental Management and a Facility Hazardous Waste Minimization/ Pollution Prevention Plan, prepared by EarthTech, was left with the Facility Environmental Manager.

e. Hazardous Materials identified for disposal must be turned into DRMO as hazardous waste. Documents for the hazardous waste turn-in should be completed NLT 30 days from this visit.

Typed Name of Visiting Evaluator:	Signature of Visiting Person:	Date Prepared:
RICHELLE NEFF Iowa Environmental Coordinator, 89th RSC	Richelle Neff	8 May 98

Typed Name and Grade of Reviewing Officials:	Signature of Reviewing Officials:	Date Signed:
FREDDIE MELTON Jr. Supervising Environmental Specialist, HQ, 89th RSC	Freddie J Melton	15 May 98

Typed Name and Grade of Reviewing Officials:	Signature of Reviewing Officials:	Date Signed:
JOHN A. FENILI Facility Management Officer, HQ, 89thRSC	John A Fenili	17 May 98

DISTRIBUTION: (May be adjusted as necessary) Original - DCSENGR
1 - Facility Concerned
1 - Command & Control
3 - ODCSENGR

USAR ENERGY CONSERVATION & FACILITY QUARTERLY CHECKLIST

(89th ARCOM Pamphlet 420-1)

LOCATION: Middletown/Burlington

DATE: 15 April 98

TYPE OF FACILITY (Check one): BASED / COMMUTED / COMBINED X

	YES	NO
1. Are the Facility Files established IAW (=) 89th ~~ARCOM~~ RSC Pam 420-1 to include		
a. SOP/Annexes (420-10a)		✓
b. Appointment Orders (420)	✓	
c. Service Contracts (420-17a);	✓	
d. Work Order Requests/Work Order Register (420-17e)	✓	
e. Hazardous Waste Files - Manifest & Safety Clean Contract, if applicable (200 Series)	✓	
f. Quarterly Inspection Reports (420-10a)	✓	
g. Real Property Management Board Minutes if Applicable (420-10a)	N	A
h. Staff Visit Reports (20)	✓	
i. Energy Conservation File (11-27c) SOP	✓	
j. Arms Room Certification (415-10a)	✓	
k. Fire Prevention (420-10a) Licenses (if applicable) (405-80a)	✓	
2. Is the Published Facility SOP IAW 89th (=) ~~ARCOM~~ RSC PAM 420-1 and does it address:	N	A
a. General Administration (Duties & Responsibilities of the Facility OIC/Mangger)		✓
b. Security	✓	
c. Safety		✓
d. Hazardous Waste Management SOP		✓
e. Energy Conservation		✓
f. Fire Prevention		✓
g. Emergency Repairs, Self-Help, Service Contracts		✓
h. Facility Closure Plan (500-5a)		✓
3. Are current facility appointment orders on file (=) for the following:		
a. Officer in Charge (OIC)		✓
b. Facility Manager		✓
c. Facility Property Book Officer	✓	
d. Real Property Management Board & President, if applicable	N	A
e. Contracting Officers Representative (COR)	N	A
f. Facility Energy Conservation Coordinator (AR 11-17, para 1-6) Battalion and Higher	N	A
g. Facility Fire Marshall/Warden	✓	

	YES	NO
h. Facility Hazardous Waste Manager	✓	
i. Facility Hazardous Waste Work Team		✓
j. Facility Spill Response Team (if applicable)		✓
4. Does the facility have on hand all references listed on page II of 89th ~~ARCOM~~ RSC Pam 420-1		✓
5. Are quarterly facility inspections conducted by (=) Facility OIC? (Last Insp Date:)		✓
6. Are semi-annual Real Property Management Board meetings conducted & minutes prepared? (FORSCOM (=) Reg 5-9) (Date Last Meeting:)	N	A
7. Does the facility have a copy of the facility lease? (*) (if applicable)	N	A
8. Does the facility have a copy of the ICARPUS Report? (AR 465-70, para 107b) (Date of Last Update:) 405-70a	N	A
9. Does the facility have a copy of the service contract(s) & are DD 250's & invoices being submitted on time for the following: (AR 420-81, para 3; FORSCOM Reg 5-9.	✓	
a. Custodial	✓	
b. Grounds Maintenance	✓	
c. Heating/Air Conditioning Maintenance R&U	N	A
d. Refuse	✓	
e. Pest Control	N	A
f. Snow Removal	✓	
g. Fire Protection/Kitchen Equipment		✓
10. Are service contracts being accomplished in (=) accordance with contact specifications?	✓	
11. Is a work order register (89th ~~ARCOM~~ RSC Form 42-5R) being maintained for all Facility Engineering Work (=) Requests?	✓	
12. Are Facilities Engineering Work Requests (~~DA~~ 89RSC Form 420-1R) being submitted for necessary repairs, (*) emergencies and Self Help Materials?	✓	
13. Is the user familiar with emergency repair procedures and with the Self Help Program?	✓	
Is Self Help utilized to the fullest extent? (See 21)	✓	
14. Is the arms storage area properly secured and (*) certified? (Certification Date: 415-10a)	✓	
15. Are the interior and exterior painted surfaces in satisfactory condition?	✓	

89TH ARCOM FORM 1 Aug 94 42-11R

(Replaces 89th ARCOM Form 44-17R, dated 25 May 94. All previous editions are obsolete)

Middletown 15 April 98

USAR ENERGY CONSERVATION & FACILITY OPERATIONS CHECKLIST

LOCATION: DATE:

	YES	NO
16. Are all previously identified deficiencies addressed (*) through work orders?	✓	
17. Are offices, corridors, bulletin boards, and the assembly hall clean, orderly and present a (=) professional appearance?	✓	
18. Are windows and doors in proper working order weather sealed and can they be secured?	✓	
19. Is the kitchen, scullery and food storage area neat, clean and free of pests?	✓	
20. Have all visible leaks in ceilings, walls, around windows, doors, gutters, basement walls or around vents been sealed or repaired?		✓
21. Is all equipment stored and secured properly with all storage areas arranged neatly and utilized to the fullest possible extent?	✓	
22. Have all potential fire, health, safety or security hazards been removed? (AR 420-90; AR 385-10; (*) FORSCOM Reg 420-24; NFPA #101)	✓	
23. Is the Fire Marshall conducting the required Fire Prevention Inspections and completing 89th ~~ARCOM~~ RSC (=) Form 42-9R? (Date Inspected:)		✓
24. Have all unauthorized materials/items been removed (*) from the boiler/furnace or mechanical room?		✓
25. Are fire evacuation plans properly posted in (=) rooms? (=)	✓	
26. Are practice fire drills being conducted? (=) (Date Conducted: 2 April 98)	✓	
27. Are fire extinguishers in place, charged, dated, inspected and is the correct type installed for (=) each specific area?	✓	
28. Is lighting, heating, and air conditioning minimized in areas that are not in continual use?	✓	
29. Are thermostats set at 65 deg heating & 78 deg (=) IAW energy conservation directives?	✓	
30. Does the facility have a small arms range? (Number of firing points:) (Caliber certified for:)	✓	
31. Is the range: a. Operational? closed		✓
b. Certified? (Date:)	N	A
c. Tested for Lead Contamination? (Date:)	✓	
32. Is the US Flag & the flag pole in good condition & is the flag properly displayed?		✓
33. Is the OMS clean, neat & well maintained by the using units?	✓	
34. Do the exterior grounds have a good appearance & are they well policed to include MEP & fences?		✓

	YES	NO
35. Are fences & gates in good repair, properly constr- (=) ucted & are gates secured properly?		✓
36. Is the security lighting adequate on all buildings & (=) MEP & are all fixtures working properly?	✓	
37. Are the parking areas (MEP & POV) surfaced adquately (free of potholes, severe cracks) & arranged in an orderly manner?		✓
38. Are privately owned equipment & vehicles being stored, serviced, or repaired in the reserve center without higher headquarters approval? (89th (*) ~~ARCOM~~ RSC Pam 420-1)		✓
39. Ocean Cargo Storage Containers: a. Does the center have any?		✓
b. Are they properly used, secured, maintained?	N	A
40. Does the Center have: a. Grease trap for the kitchen? cleaned 96	✓	
b. Oil trap for wash rack?		✓
c. Oil separator for the maintenance area? (Date Last Checked:)		✓
d. Underground storage tanks?		✓
41. Does center have a Hazardous Waste Collection Point?	✓	
42. Is Hazardous/Controlled Waste stored & disposed (*) of properly?	✓	
43. Does facility have spill response kits & are they (*) located properly? (Only at collection points)	✓	
44. Are Hazardous Waste/Hazardous Materials records kept in compliance with EPA, State & Federal Reg- (*) ulations? (89th ~~ARCOM~~ RSC Pam 200-1B)	✓	
45. Are the Facility Hazardous Waste Manager, Haz- ardous Waste Work Team & Spill Response Team (*) trained & is training being documented?	✓	
46. Has training been provided for all ~~Facility~~/Unit personnel responsible for handling hazardous waste materials to include use, handling, storage, & disposition? (89 RSC Pam 200-1)	✓	
47. Are Hazardous materials stored properly? (*)	✓	
48. Has training been provided for all Facility/Unit personnel who use hazardous materials? (Training (*) includes handling, storage, & use of MSD's/HAZCOM)	✓	
49. Are MSDS sheets available where the materials (*) are stored?	✓	
50. Thirty-three percent of the subordinate units were (*) rated unsatisfactory (Battalion & higher).	N	A
51 Does your facility have a recycling program? paper	✓	
One (*) is Unsatisfactory Three (=) is Unsatisfactory		

REMARKS: (Comments will reference the inspection items above)

2a-h SOPs were left with Facility Manager, need to be updated for facility

3a,b,ij Current work orders should be requested.

5. Quarterly inspections should be conducted by OIC

18. Doors are not energy efficient

20. Ceiling leaks in east hallway.

23. Fire Marshall conducts inspections but does not fill out Form 42-9R

24. Old files should be removed from boiler room.

32. Flagpole needs to be repainted.

34. Surface of MEP is in poor condition, needs to be re-paved

35. Work order has been submitted to repair fence and fill in low area.

NAME, GRADE, TITLE, UNIT: Richelle Neff, Environmental Coordinator

SIGNATURE: Richelle Neff

89TH ARCOM FORM 1 Aug 94 42-11R (Replaces 89th ARCOM Form 44-17R, dated 25 May 94. All previous editions are obsolete)

ENVIRONMENTAL COMPLIANCE ASSESSMENT SYSTEM (ECAS) CHECKLIST

(For use of this form see 89th RSC Pamphlet 200-1, the proponent agency is [illegible])

FACILITY Middletown ADDRESS

GENERATOR STATUS SQG EPA ID # STATE ID #

FACILITY ENVIRONMENTAL MANAGER Richard Hester DATE 15 April 98

	YES	NO	N/A
I. FACILITY OFFICER IN CHARGE			
1. Are Facility Environmental Managers, Unit Hazardous Waste Managers, Facility/Unit Spill Response Teams, and Facility Hazardous Waste Work Teams appointed where required IAW applicable RSC PAM 200-1?	✓	=	
2. Are facility environmental files set up according to applicable RSC PAM 200-1?	✓	=	
3. Does the facility have a copy of AR 200-1, applicable RSC PAM 200-1, and the Commander's Guide to the Environment?	✓		
4. Does the facility have a Hazardous Material/Hazardous Waste Management Plan?		= ✓	
5. Do troops get environmental and HAZCOM training in accordance with the law?	✓	*	
6. Is environmental /HAZCOM training on the training schedule?		✓	
7. Do troops get environmental training prior to AT?	✓		
8. Is all training properly documented in environmental files?	✓		
9. Does each unit have a signed MOA with local training areas?			✓
10. Does the facility have a copy of the last internal and external ECAS inspection?		✓	
11. Have all corrective actions been completed?	✓		
12. Have any Notices of Violation (NOVs) been properly addressed and corrected?		*	✓
II. UNIT COMMANDERS			
1. Does the unit have a Unit Hazardous Material/Hazardous Waste SOP?		= ✓	
2. Has a Unit Hazardous Waste Manager been appointed on orders?		=	✓
3. If applicable, has a Unit Spill Response Team been appointed?		=	✓
4. Have all unit personnel received HAZCOM training and other environmental training, as appropriate?	✓	*	
5. Does the unit receive environmental training prior to AT?	✓		
6. Is all environmental training documented?	✓		
7. Is all unit hazardous waste disposed of properly?	✓	*	
8. Does the Unit Hazardous Waste Manager coordinate with the environmental staff at the AT location before, during and after the conclusion of AT?	✓		
9. Are necessary spill response kits available for AT activities?	✓		
III. FACILITY MANAGER			
1. Are all environmental-related work requests completed and turned in to the RSC Engineer Office?	✓	*	
2. Does the facility manager have key access to all cabinets/rooms?	✓		
IV. FACILITY ENVIRONMENTAL MANAGER			
1. Are facility environmental files set up according to applicable RSC PAM 200-1?	✓	=	
2. Do troops get environmental and HAZCOM training in accordance with the law?	✓	*	
3. Is environmental /HAZCOM training on the training schedule?		✓	
4. Do troops get environmental training prior to AT?	✓		
5. Is all training properly documented in environmental files?	✓		
6. Is there a current inventory of all hazardous materials in the facility?	✓	*	
7. Has the inventory been provided to the local fire department with a facility diagram indicating the locations of hazardous materials/waste?	✓		
8. Do all items have a MSDS on file where the material is stored?	✓	*	

ENVIRONMENTAL COMPLIANCE ASSESSMENT SYSTEM (ECAS) CHECKLIST Supersedes Form 89 RSC 200-1-XXX-R, dated 1 Jan 1997			
FACILITY:	YES	NO	N/A
47. Have CFC containing solvents used or stored at the facility been identified and documented?	✓		
48. Has use of all CFC/halon containing items been suspended or reduced IAW law?	✓		
CLEAN WATER ACT (CWA):			
49. Does the facility have an oil/water separator?	✓		
50. Has the oil/water separator been cleaned within the last two years and documented? not in use		✓	
51. Does the facility have a wash rack?	✓		
52. Have operations at the wash rack currently been suspended?	✓		
53. Have all oil stains been cleaned off the MEP and POV parking areas?			✓
54. Are drip pans being used under leaking vehicles?	✓		
55. Is storm water free of any visible oil sheen in the MEP and POV parking areas?	✓		
56. Does storm water from paved parking areas drain to the sanitary sewer system?		✓	
57. Have all underground storage tanks been removed?			✓
58. Have kitchen grease traps been cleaned within the last two years?	✓		
59. Are back flow preventers installed on water lines in accordance with state and local regulations?			✓
TOXIC SUBSTANCES CONTROL ACT (TSCA):			
60. Have all transformers and light ballasts been identified as PCB-free?		✓	
COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION & LIABILITY ACT (CERCLA):			
61. Have all sites that may have been contaminated in the past been identified?			✓
62. Have all areas of distressed vegetation been investigated?			✓
NATIONAL HISTORIC PRESERVATION ACT (NHPA):			
63. Is a letter on file from the State Historic Preservation Officer stating whether the facility is listed on or eligible for the National Register of Historic Places?			✓
64. Has an archeological survey been conducted at the facility?			✓
ENDANGERED SPECIES ACT (ESA):			
65. Have any endangered or threatened plant or animal species (or the absence of them) at the facility been documented?		✓	
FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT (FIFRA):			
66. Are all pesticides and herbicides applied by a certified exterminator on contract?			✓
67. Does the facility have a record of the quantities of all pesticides/herbicides applied?			✓
* - One (*) is unsatisfactory.			
= - Three (=) is unsatisfactory.			
COMMENTS:			

Richelle Neff — 16 April 98

Name of Inspector — Date of Inspection

Richelle Neff — REMSA, for the 89th RSC

Signature of Inspector — Organization

RECORD OF SITE VISIT

DATE: 01 August 2000

SITE: Burlington Memorial USARC
Middletown, IA

POC: Richard E. Hester

PURPOSE OF VISIT: I visited the Reserve Center in order to:

- Perform a preliminary visit
- Inventory HAZMAT
- Assist the USGS with the oil-water separator survey
- Perform a P2 survey

HAZMAT FINDINGS: The Reserve Center does not have any HAZMAT to be turned in.

FINDINGS OF CONCERN: When the OWS was inspected, it was noted that the baffle system of the OWS was in disrepair. This could lead to diminished performance by the OWS. I recommend having the baffles replaced or repaired.

RECOMMENDATIONS: The facility is well maintained. I completed the P2 survey with Mr. Hester's assistance.

Roberto I. Ramos
J.M. Waller Associates, Inc.
State Environmental Coordinator - Iowa
89th Regional Support Command
DCSENG-Environmental

RECORD OF SITE VISIT

DATE: **25 April, 2001**

SITE: Middletown

POC: Richard Hester

PURPOSE OF VISIT: Familiarization Visit and Pre-Inspection

HAZMAT FINDINGS: Located different varieties of paint not stored properly

FINDINGS OF CONCERN: Improperly stored materials.

RECOMMENDATIONS: Top to bottom sweep through the entire facility to locate any orphaned materials.

Eric Meidenbauer
TAD Technical
State Environmental Coordinator – Iowa
89th Regional Support Command
DCSENG - Environmental

RECORD OF SITE VISIT

DATE: 10 Jul 2002

SITE: Middletown USARC
Middletown, IA

POC: SFC Shea

PURPOSE OF VISIT: I visited the Reserve Center in order to:

- Perform an Internal ECAS

HAZMAT FINDINGS: Compressed gas cylinders not properly stored.

FINDINGS OF CONCERN: No current inventory of materials on hand. No orders for Haz Waste/Material Work Team or Spill Response Team.

RECOMMENDATIONS: Relocate the compressed gas cylinders. Inventory and turn-in hazardous waste as needed. Generate orders for Work and Spill Response Teams.

Eric J. Meidenbauer
TAD Technical
State Environmental Coordinator – Iowa
89th Regional Support Command
DCSENG - Environmental

RECORD OF SITE VISIT

DATE: October 17, 2002

SITE: Middletown USARC
Middletown, IA

POC: SFC Shea

PURPOSE OF VISIT: I visited the Reserve Center in order to:

- Perform a Familiarization Visit

HAZMAT FINDINGS: 1 55 gallon drum of antifreeze that needs to be disposed of.

FINDINGS OF CONCERN: No current inventory of materials on hand.

RECOMMENDATIONS: Find a local facility that will take the antifreeze for disposal. Also coordinator future disposals of small amounts of antifreeze with someone local.

Karen Collins
TAD Technical
State Environmental Coordinator – Iowa
89th Regional Support Command
DCSENG - Environmental

Karen Collins

RECORD OF STAFF ASSISTANCE VISIT (SAV)

Unit/Facility Visited:	Location:	Date of Visit:
Burlington Memorial USARC, IA019	Middletown, IA	26-Feb-04

1. Type Of Visit: FACILITY (ARIM/Environmental)

2. Person Conducting Visit: KAREN COLLINS

3. Individuals Contacted: Russ Sligh, Facility Manager

4. Purpose of Visit: SAV-ECAS + Conduct an internal ECAS and gather data for facility Pollution Prevention Plan and Hazardous Materials Management Plan

5. ECAS Findings:

a. Files

The facility has access to all environmental quality files.

b. Polution Abatement

Copies of the asbesos and radon sampling could not be located. The state environmental coordinator will make copies and send them to the FM immediately.

There are no records of the OWS being cleaned. The facility manager should contact Safety Kleen immediately to have them come out and inspect it. If a cleaning is needed it should be scheduled.

The FM needs to contact the facility's ground's contractor to get a copy of their Pesticide Applicator's Certificate. This must be done prior to their first visit this spring.

c. Compliance

There have not been any NOVs or spills at the facility in the last month.

d. Hazardous Materials Management

The Spill Response Plan was not posted in the OMS. This needs to be done by the facility manager immediately. The state coordinator left copies of Chapter 5, 89th PAM 200-1 and instructions on where to post them.

There are flammable materials being stored in a conex. This was discussed at length with the facility manager. This items in the conex will be moved to one of the outdoor storage sheds for now. If, when the unit returns, it is determined that the facility needs additional storage space the state coordinator will work with the facility manager to get it.

There needs to be additional spill kits ordered for the facility. Also there is a need for drip pans for the OMS. The state coordinator has already gotten quotes for these items and is waiting for the FM to sign the 420.

e. Training

RECORD OF STAFF ASSISTANCE VISIT (SAV)

Unit/Facility Visited:	Location:	Date of Visit:
Burlington Memorial USARC, IA019	Middletown, IA	26-Feb-04

The facility manager is new and has not attended the weeklong training course. The state coordinator provided all of the class information to the facility manager. In approximately 30-60 days a new facility manager will be on site. He will need to attend the training as well.

Hazard Communication Training needs to be conducted by the one full time employee at the facility. The training booklets will be sent immediately for completion.

6. Summary and Recommendations

This facility is in good condition. There are a few storage and paperwork issues but these were all discussed with the facility manager and should be easily and immediately corrected. The current facility manager would like to start an environmental binder/folder in order to keep all environmental files together. The state coordinator will provide any documentation he may need.

A 6 month follow up SAV will be conducted.

Signature/Name/Title of Visitor	Date Prepared:
KAREN COLLINS Environmental Coordinator TAD Technical Karen Collins	1- March - 04
Signature/Name/Title of Reviewing Official	**Date Reviewed:**
WILLIAM S.TITTERINGTON Environmental Protection Specialist 89th Regional Readiness Command	9 MAR 04
Signature/Name/Title of Approving Official	**Date Approved:**
JOHN A. FENILI Facilities Management Officer 89th Regional Readiness Command John A Fenili	10 Mar 04

Distribution:
AFRC-CKS-ARIM (1)
AFRC-CKS-ARIM-E (2)
Facility IA019 (2)
KAREN COLLINS (1)

89th Environmental SAV Checklist Report

FACID: IA019	SAVTYPE: SAV-ECAS	SAV PERSON: KAREN COLLINS

SAVPOC: Russ Sligh, Facility Manager

SAV Date: Thursday, February 26, 2004

NOTES:

200-1 ENVIRONMENTAL QUALITY FILES

a. Does the facility have a copy of AR 200-1?	◉ Yes	○ No	○ NA
b. Does the facility have a copy of AR 200-2?	◉ Yes	○ No	○ NA
c. Does the facility have a copy of DA Pam 200-1?	◉ Yes	○ No	○ NA
d. Does the facility have a copy of 89th RSC Pam 200-1?	◉ Yes	○ No	○ NA
e. Is there a Facility SOP for Hazardous Communications (HAZCOM)?	◉ Yes	○ No	○ NA
f. Does the facility have a copy of the last Engineering Environmental Facility Assessment?	◉ Yes	○ No	○ NA
g. Have all noted deficiencies on the ECAS portion been corrected?	◉ Yes	○ No	○ NA
h. Are copies of Staff Assistance Visits conducted by 89th RSC personnel filed?	◉ Yes	○ No	○ NA
i. Are results of the last facility Environmental Compliance Assessment Checklist filed?	◉ Yes	○ No	○ NA
j. Have all visit/inspection reports from local,state,federal agencies been submitted to the 89th?	○ Yes	○ No	◉ NA
k. Have all EPCRA requirements been met with the Local Emergency Planning Council?	○ Yes	○ No	◉ NA
l. Are weekly Hazardous Waste Storage Area Checklists on File?	○ Yes	○ No	◉ NA

200-1A ENVIRONMENTAL POLLUTION ABATEMENT FILES

a. Does the facility have Asbestos Survey and Abatement Records?	○ Yes	◉ No	○ NA
b. Does the facility have an Asbestos Awareness Plan?	○ Yes	○ No	◉ NA
c. Is there a Backflow Prevention Device installed on the facility water system?	○ Yes	○ No	◉ NA
d. Has it been tested for serviceability in the past 12 months?	○ Yes	○ No	◉ NA
e. Does the facility participate in any recycling programs?	◉ Yes	○ No	○ NA
f. Has the grease trap been serviced in the past 2 years?	○ Yes	○ No	◉ NA
g. Does the facility have the required Indoor Rifle Range Closure documentation on hand?	◉ Yes	○ No	○ NA
h. Has the containment basin and OWS been serviced in the past 2 years?	○ Yes	◉ No	○ NA
i. Is there an inventory of any Ozone Depleting Chemicals in use?	○ Yes	○ No	◉ NA
j. Does the facility maintain certificates for pesticide/herbicide applicators?	○ Yes	◉ No	○ NA
k. Are the herbicide/pesticide application reports properly filed?	○ Yes	○ No	◉ NA
l. Does the facility have a copy of the Pollution Prevention plan for facilities?	◉ Yes	○ No	○ NA
m. Has the facility been tested for radon and are the results filed?	○ Yes	◉ No	○ NA
n. Is the radon abatement plan in place?	○ Yes	○ No	◉ NA
o. If this is a historic building, has the State Historic Preservation Office provided documentation?	○ Yes	○ No	◉ NA
p. Are records supporting the SWP3 up to date and filed?	○ Yes	○ No	◉ NA
q. Is any existing UST properly documented and permitted?	○ Yes	○ No	◉ NA
r. Does the facility have closure documents for any removed Under-ground Storage Tanks?	○ Yes	○ No	◉ NA
s. Have transformers and light ballasts been determined to be PCB-free?	◉ Yes	○ No	○ NA
t. Is there an Environmental Noise Management Program at this facility?	○ Yes	○ No	◉ NA

200-1B ENVIRONMENTAL POLLUTION COMPLIANCE

a. Have all (NOV) from state agencies in the past 12 months been corrected?	○ Yes ○ No ◉ NA
b. Have all Notice of Violations (NOV) from federal agencies been corrected?	○ Yes ○ No ◉ NA
c. Have all Notice of Violations (NOV) from local agencies been corrected?	○ Yes ○ No ◉ NA
d. Are copies of all NOV's received by the facility properly filed?	○ Yes ○ No ◉ NA
e. Have copies of all NOV's received by the facility been forwarded to the 89th?	○ Yes ○ No ◉ NA
f. Are copies of all Spill Response Incident Reports properly filed?	○ Yes ○ No ◉ NA
g. Have all Record of Spill Response Incident Reports been forwarded to the 89th?	○ Yes ○ No ◉ NA

NOTES:

200-1C HAZARDOUS MATERIALS MANAGEMENT

a. Is the Hazardous Material/Waste Management Plan being followed?	◉ Yes ○ No ○ NA
b. Is the Spill Response Plan posted near the storage area?	○ Yes ◉ No ○ NA
c. Does the facility have an engineer approved SPCC Plan?	○ Yes ○ No ◉ NA
d. Does the facility have a Hazardous Waste Generator Permit and ID Numbers?	◉ Yes ○ No ○ NA
e. Are all Hazardous Waste Manifests for turn ins on hand for current and two previous years?	○ Yes ○ No ◉ NA
f. Is there a copy of the last Annual Generator's Hazardous Waste Summary Report on file?	○ Yes ○ No ◉ NA
g. Has there been an Annual Hazardous Material Inventory submitted to the SEC?	○ Yes ○ No ◉ NA
h. Does the Facility Environmental Manager maintain a current HM inventory?	◉ Yes ○ No ○ NA
i. Does each tenant activity maintain a current HM inventory for stored products?	◉ Yes ○ No ○ NA
j. Does the FEM have Material Safety Data Sheets (MSDS) for all HM stored at the facility?	◉ Yes ○ No ○ NA
k. Are there MSDS sheets for HM at each location where HM is stored?	◉ Yes ○ No ○ NA
l. Are there any DRMO reutilization documents for transferred HM?	○ Yes ○ No ◉ NA
m. Are medical wastes disposed of properly.	○ Yes ○ No ◉ NA
n. Are spill response materials/kits readily available?	○ Yes ◉ No ○ NA
o. Are all flammable materials stored in a flammable storage cabinet/room?	○ Yes ◉ No ○ NA
p. Are storage quantities minimized to reduce the potential for spills or leaks?	◉ Yes ○ No ○ NA
q. Are storage time limits for hazardous waste being monitored and followed?	◉ Yes ○ No ○ NA
r. Is used Antifreeze being disposed of properly?	◉ Yes ○ No ○ NA
s. Is used Oil being disposed of properly?	◉ Yes ○ No ○ NA
t. Is the MEP lot free of oil stains and debris?	◉ Yes ○ No ○ NA

NOTES: Need additional spill kits and drips pans for OMS

200-1D ENVIRONMENTAL TRAINING

a. Has a Facility Environmental Manager been appointed?	○ Yes ○ No ◉ NA
b. Has a Facility Spill Response Team been appointed?	○ Yes ○ No ◉ NA
c. Are Additional Duty Appointment memorandums on file?	◉ Yes ○ No ○ NA
d. Has the Facility Manager been trained?	○ Yes ◉ No ○ NA
e. Has the Facility Environmental Manager been trained?	○ Yes ○ No ◉ NA
f. Has Facility Spill Response Team training been conducted in the past 12 months?	○ Yes ○ No ◉ NA
g. Has Environmental Awareness/HAZCOM Program training been conducted for all soldiers?	○ Yes ◉ No ○ NA

NOTES:

Signature of Inspector Karen Collins

Date of Signature 1-Mar-04

SAV # 316

RECORD OF STAFF ASSISTANCE VISIT (SAV)

Unit/Facility Visited:	Location:	Date of Visit:
Burlington Memorial USARC, IA019	Middletown, IA	02-Sep-04

1. **Type Of Visit:** FACILITY (ARIM/Environmental)

2. **Person Conducting Visit:** STEVE MILLER

3. **Individuals Contacted:** SFC Shea, Facility Manager

4. **Purpose of Visit:** Conduct SAV

5. **Findings**

The State Environmental Coordinator (SEC) met with SFC Shea, Facility Manager on 2 Sep 2004.

The SEC presented SFC Shea a CD ROM with pertinent environmental information obtained from the Middletown, Iowa files located in Des Moines, Iowa. We reviewed the contents of the CD and SFC Shea was pleased that environmental information could be found in one location. The SEC stated that any environmental information located at the Middletown facility that was not found on the CD ROM (e.g., facility manager appointment letter) should be scanned and placed into the appropriate folder on the CD.

SFC Shea has not attended the 40 hour Environmental Training class due to his recent appointment as Facility Manager and his return from deployment. Both SFC Shea and SSG Martinez expressed interest in attending the class in FY 05.

The SEC also discussed the pesticide reporting requirements with SFC Shea. SFC Shea stated that he would compile the information for FY 04 and submit the information to the SEC.

Because of the deployment of the reservists from this facility, Hazard Communication (Haz Comm) training has not been conducted during FY 04. When the reservists return from deployment, it is suggested that Haz Comm training be conducted during a drill weekend.

The facility was then inspected by the SEC and SFC Shea.

Improper storage of hazardous materials was discovered during the inspection. A compressed gas container was discovered in the Training Office. Carburetor cleaner and other hazardous materials were discovered in the Unit cages. Latex paint and roofing cement was also discovered during the inspection.

A 55-gallon drum of unknown material was discovered outside the OMS. There is also a 95-gallon overpak containing rags, pigs, and absorbent pads from an oil spill adjacent to the OMS.

A facility-wide hazardous material inventory needs to be conducted. The inventory should be checked against the MSDSs currently on hand. Any missing MSDSs will need to be obtained. The SEC can assist with conducting the inventory and obtaining any missing MSDSs. The SEC also suggested that a hazardous material inventory could be conducted during a drill weekend.

A spill plan was not posted in the OMS. The SEC suggested that a copy of Chapter 5 from the 89th RRC 200-1 PAM be printed and posted in the OMS.

SFC Shea requested assistance from the SEC to find a vendor for recycling of used oil.

The flammable placards on the Flammable Storage Containers are faded and need to be replaced.

RECORD OF STAFF ASSISTANCE VISIT (SAV)

Unit/Facility Visited:	Location:	Date of Visit:
Burlington Memorial USARC, IA019	Middletown, IA	02-Sep-04

6. Summary and Recommendations

The SEC will keep SFC Shea informed of the Environmental Training Schedule for FY 05.

Haz Comm training and a hazardous material inventory should be conducted during a drill weekend. The SEC will conduct a telephone follow-up with SFC Shea to determine if Haz Comm training and a hazardous material inventory have been completed.

SFC Shea should properly store the 55-gallon drum, compressed gas container, carburetor cleaner, latex paint and roofing cement. The spill response plan from the 89th RRC 200-1 PAM should be posted in the OMS. The SEC will conduct a telephone follow-up to determine if the hazardous materials have been properly stored and if the spill response plan has been posted in the OMS.

If necessary, the SEC will assist SFC Shea in determining the contents of the 55-gallon drum. The SEC recommended that the contents of the 95-gallon overpak be double bagged in garbage bags and disposed with the normal trash.

The flammable storage placards have been ordered. The SEC will drop-off the placards during the next SAV or before.

The SEC e-mailed a copy of the information from Cedar Rapids Oil Co. to SFC Shea on 21-Sep-04.

The facility was in environmentally very good condition.

A SAV-ECAS will be conducted in approximately 6 months.

Signature/Name/Title of Visitor	Date Prepared:
STEVE MILLER Steven R. Miller	23-Sep-04
Signature/Name/Title of Reviewing Official	**Date Reviewed:**
WILLIAM S.TITTERINGTON, REM Environmental Protection Specialist 89th Regional Readiness Command W.S. Titterington	27 SEP 04
Signature/Name/Title of Approving Official	**Date Approved:**
JOHN A. FENILI Facilities Management Officer 89th Regional Readiness Command John A Fenili	8Oct04

Distribution:
AFRC-CKS-ARIM (1)
AFRC-CKS-ARIM-E (2)
Facility IA019 (2)
STEVE MILLER (1)

RECORD OF STAFF ASSISTANCE VISIT (SAV)

Unit/Facility Visited:	Location:	Date of Visit:
Burlington Memorial USARC, IA019	Middletown, IA	20-Oct-04

1. Type Of Visit: FACILITY (ARIM/Environmental)

2. Person Conducting Visit: STEVE MILLER

3. Individuals Contacted: SSG Martinez

4. Purpose of Visit: Assist with Disposal of Outdated Hazardous Materials

5. Findings

On 20 October 2004, Mr. Steven R. Miller, Iowa State Environmental Coordinator, (SEC), met with SSG Martinez regarding the disposal of outdated hazardous materials. During SSG Martinez's preparation of a hazardous material inventory for the facility, he noted that there were numerous containers of hazardous materials that were no longer needed.

SSG Martinez had prepared an inventory of the hazardous materials for disposal. Copies of Material Safety Data Sheets (MSDSs) were obtained for each of the materials. The SEC reviewed the inventory and MSDSs and segregated the materials by hazard class.

During the SAV conducted on 2 September 2004, the SEC understood that an additional flammable storage cabinet was needed for the storage of gasoline cans. However, in speaking with SFC Shea, he would like an outdoor storage shed for the storage of gasoline cans. SSG Martinez also requested some additional spill supplies.

6. Summary and Recommendations

The SEC will prepare documents for the turn-in of hazardous materials and submit the documents to DRMO Rock Island. DRMO Rock Island will arrange for the pickup of the hazardous materials with the US Army's disposal contractor.

The SEC will obtain quotes from two vendors and prepare a 420-1-R to order an outdoor storage shed for the storage of gasoline cans. The SEC will also prepare a 420-1-R to order absorbent pads, floor sweep and hand cleaning towels for the facility.

The SEC would like to complement SSG Martinez in being proactive in complying with environmental regulations.

AFRC-CKS-ARIM-E (1-201d)

RECORD OF STAFF ASSISTANCE VISIT (SAV)

Unit/Facility Visited:	Location:	Date of Visit:
Burlington Memorial USARC, IA019	Middletown, IA	20-Oct-04

Signature/Name/Title of Visitor **Date Prepared:**

STEVE MILLER
IA State Environmental Coordinator
TAD Technical in support of the 89th RRC

Steven R. Miller 8-Nov-04

Signature/Name/Title of Reviewing Official **Date Reviewed:**

WILLIAM S.TITTERINGTON, REM
Chief, Environmental Division
89th Regional Readiness Command

WS Titterington 15 nov 04

Signature/Name/Title of Approving Official **Date Approved:**

JOHN A. FENILI
Facilities Management Officer
89th Regional Readiness Command

John A Fenili 22 Nov 04

Distribution:
AFRC-CKS-ARIM (1)
AFRC-CKS-ARIM-E (2)
Facility IA019 (2)
STEVE MILLER (1)

SAV#: 480

RECORD OF STAFF ASSISTANCE VISIT (SAV)

Unit/Facility Visited:	Location:	Date of Visit:
Burlington Memorial USARC, IA019	Middletown, IA	06-Apr-05
Facility OIC:	**Facility OIC Email:**	
SFC Michael Shea	SheaMM@us.army.mil	

1. **Type Of Visit:** FACILITY (ARIM/Environmental)

2. **Person Conducting Visit:** STEVE MILLER

3. **Individuals Contacted:** SFC Martinez, Senior Const Equip Mechanic, Bill LaFrenz, DRMO

4. **Purpose of Visit:** SAV-Turn in / Assist with Turn-in of HW

5. **Findings**

Mr. Steve Miller, Iowa State Environmental Coordinator (SEC) met with SFC Martinez, Senior Const Equip Mechanic, Mr. Bill LaFrenz, and DRMOs contractor on 06 April 2005 to prepare for a hazardous waste turn-in.

The SEC and SFC Martinez proceeded to stage the hazardous waste for DRMO's contractor. DRMO's contractor arrived on site shortly after the staging of the hazardous waste. The hazardous waste was packed into DOT shipping containers and properly labeled by DRMO's contractor.

Approximately 461 pounds of hazardous waste was shipped for disposal. No non-regulated or universal wastes were shipped from this facility on 06 April 2005.

The SEC noticed that gasoline cans and jerry cans containing diesel fuel were being stored in a small conex. The SEC also noticed that a drum being stored in a haz mat storage building was labeled "Waste Diesel".

Acetylene and oxygen cylinders were being stored in the OMS POL storage room. The storage room also did not have a 4" containment sill in the doorway of the room.

In reviewing the Phase I OWS investigation report conducted by USGS in 2000, the USGS concluded that the OWS was most likely not intact.

6. **Summary and Recommendations**

The SEC recommended to SFC Martinez to move the gasoline and jerry cans to the haz mat storage building. SFC Martinez should spray paint over the Flammable Liquid placard currently on the conex.

The SEC recommended to SFC Martinez to re-label the "Waste Diesel" drum to "Used Diesel".

The SEC recommended to SFC Martinez to properly store the acetylene and oxygen cylinders 20 feet apart and to secure the cylinders to a wall.

Prior to using the wash rack, the OWS needs to be repaired. The SEC recommended to SFC Martinez to submit a Work Order to HQ Wichita for immediate repair of the OWS.

The SEC will prepare a 420-1-R for the Facility Managers signature for ordering a containment sill for the OMS POL storage room prior to conducting the SAV-ECAS.

SFC Martinez stated to the SEC that he would complete the above tasks by 15 April 2005. An e-mail was received from SFC Martinez on 12 April 2005 indicating that he had completed all of the above

RECORD OF STAFF ASSISTANCE VISIT (SAV)

Unit/Facility Visited:	Location:	Date of Visit:
Burlington Memorial USARC, IA019	Middletown, IA	06-Apr-05
Facility OIC:	**Facility OIC Email:**	
SFC Michael Shea	SheaMM@us.army.mil	

tasks.

A SAV-ECAS will be conducted in approximately 6 – 8 weeks.

Signature/Name/Title of Visitor **Date Prepared:**

STEVE MILLER
IA State Environmental Coordinator
TAD Technical in support of the 89th RRC

Steven R. Miller 03-May-05

Signature/Name/Title of Reviewing Official **Date Reviewed:**

WILLIAM S.TITTERINGTON, REM
Chief, Environmental Division
89th Regional Readiness Command

W. S. Titterington 3 MAY 05

Signature/Name/Title of Approving Official **Date Approved:**

JOHN A. FENILI
Facilities Management Officer
89th Regional Readiness Command

John A Fenili 10 May 05

Distribution:

ARIM (1)
AFRC-CKS-EN (2)
Facility IA019 (2)
STEVE MILLER (1)
SFC Michael Shea (1)

RECORD OF STAFF ASSISTANCE VISIT (SAV)

Unit/Facility Visited:	Location:	Date of Visit:
Burlington Memorial USARC, IA019	Middletown, IA	26-May-05
Facility OIC:	**Facility OIC Email:**	
CPT Martin Munford	martin.munford@us.army.mil	

1. **Type Of Visit:** FACILITY (ARIM/Environmental)
2. **Person Conducting Visit:** STEVE MILLER
3. **Individuals Contacted:** SFC Michael Shea, Facility Manager; SSG Gabriel Martinez, Senior Const. Equip. Mechanic
4. **Purpose of Visit:** SAV-ECAS / Conduct SAV-ECAS
5. **ECAS Findings:**

a. Files

All files/documents were on hand at the facility.

All the noted deficiencies on the last E2FA ECAS conducted on 28 Nov 2001 have not been corrected. Specifically, an asbestos survey has not been conducted in the facility.

b. Pollution Abatement

An asbestos survey has not been conducted at this facility.

c. Compliance

There has not been any Notice of Violations issued by a government agency or reportable spills in the last year.

d. Hazardous Materials Management

Specific items in the Hazardous Material/Waste Management Plan are not being followed. Nonflammable items, such as paint supplies, were being stored in a flammable storage cabinet. There is an oxygen cylinder located in the OMS Flammable Storage Room that wasn't secured. There were two 55-gallon drums located in a Hazardous Material shed that didn't have the bungs secure.

An Annual Hazardous Waste Summary Report has not been submitted to the SEC.

A hazardous material inventory needs to be conducted and MSDSs obtained for the hazardous materials in the Janitors closet.

An aerosol can of spray paint was being improperly stored in a unit cage.

e. Training

The Facility Manager and the Facility Environmental Manager have not attended the 89th RRC Environmental Awareness Training class.

HAZCOM training and spill training have not been conducted in the past year.

6. **Summary and Recommendations:**

The Facility Manager should request that an asbestos survey be conducted of the entire facility by submitting a 420-1-R to the 89th RRC.

The paint supplies were removed from the flammable storage cabinet at the time of the inspection and stored on a shelf. The oxygen cylinder in the OMS storage room was secured at the time of the inspection. The 55-gallon drums located in the Hazardous Material shed were closed at the time of the inspection. The aerosol can of spray paint was properly stored in a flammable storage cabinet at the time of the inspection.

The SEC will assist the Facility Manager in compiling the Annual Hazardous Waste Summary Report for FY 2005.

An inventory will be conducted and MSDSs obtained for the hazardous materials located in the janitor's closet by 30-Jun-05.

The Facility Manager and the Facility Environmental Manager may attend the 89th RRC Environmental Awareness Training class in August 2005. However, they may not be able to attend due to AT and other previously scheduled training.

Spill training and HAZCOM training will be completed by 30-Jun-05.

A SAV-General will be conducted in approximately 6 months.

7. Taskers

Responsible Person:	Finding:	Action Required:	Suspense:
Facility Manager	All noted deficiencies on the ECAS portion have NOT been corrected	Submit a 420-1-R to 89th RRC to perform an asbestos survey	2005/06/30
Facility Manager	Facility does not have Asbestos Survey and Abatement Records	Submit a 420-1-R to the 89th RRC to perform an asbestos survey	2005/06/30
Facility Env. Manager	The Hazardous Material/Waste Management Plan is not being followed	Remove paint suppiles from Flammable Storage Cabinet. Secure oxygen cylinder in OMS storage room. Close 55-gallon drums located in Haz Mat shed.	2005/05/26
Steve Miller	There is not a copy of the last Annual Generator Hazardous Waste Summary Report on file	Prepare Annual Hazardous Waste Summary Report for Facility Managers signature.	2005/10/01
Facility Env. Manager	The Facility Environmental Manager does not maintain a current HM inventory	Conduct hazardous material inventory of the Janitor's supplies.	2005/06/30
Facility Env. Manager	The FEM does not have Material Safety Data Sheets (MSDS) for all HM stored at the facility	Obtain MSDSs for janitor supplies	2005/06/30
Facility Manager	There are not MSDS sheets for HM at each location where HM is stored	Post MSDSs for janitor supllies near the janitor's closet	2005/06/30
Facility Env. Manager	All flammable materials are not stored in a flammable storage cabinet/room	Properly store aerosol paint can from unit cage in a flammable storage cabinet.	2005/05/26
Facility Manager	The Facility Manager has not been trained	If possible, attend 89th RRC Environmental Awareness Training class in August 2005.	2005/08/31
Facility Manager	The Facility Environmental Manager has not been trained	If possible, attend 89th RRC Environmental Awareness Training class in August 2005.	2005/08/30
Facility Env. Manager	Facility Spill Response Team training has not been conducted in the past 12 months	Conduct Spill Response Training	2005/06/30
Facility Env. Manager	Environmental Awareness/HAZCOM Program training has not been conducted for all soldiers	Conduct HAZCOM Training	2005/06/30

RECORD OF STAFF ASSISTANCE VISIT (SAV)

Unit/Facility Visited:	Location:	Date of Visit:
Burlington Memorial USARC, IA019	Middletown, IA	26-May-05

Facility OIC:	Facility OIC Email:
CPT Martin Munford	martin.munford@us.army.mil

Signature/Name/Title of Visitor **Date Prepared:**

STEVE MILLER
IA State Environmental Coordinator
TAD Technical in support of the 89th RRC Steven R. Miller 6-Jun-05

Signature/Name/Title of Reviewing Officia **Date Reviewed:**

WILLIAM S.TITTERINGTON, REM
Chief, Environmental Division
89th Regional Readiness Command

Signature/Name/Title of Approving Officia **Date Approved:**

JOHN A. FENILI
Facilities Management Officer
89th Regional Readiness Command

Distribution:
ARIM (1)
AFRC-CKS-EN (2)
Facility IA019 (1)
STEVE MILLER (1)
CPT Martin Munford (1)

89th Environmental SAV Checklist Report

FACID: IA019	SAVTYPE: SAV-ECAS	SAV PERSON: STEVE MILLER

SAVPOC: SFC Michael Shea, Facility Manager; SSG Gabriel Martinez, Senior Const. Equip. Mechanic

SAV Date: Thursday, May 26, 2005

Facility OIC:
CPT Martin Munford

Facility OIC Email:
martin.munford@us.army.mil

NOTES:

89th ENVIRONMENTAL QUALITY FILES

a. Does the facility have a copy of AR 200-1?	◉ Yes	○ No	○ NA
b. Does the facility have a copy of AR 200-2?	◉ Yes	○ No	○ NA
c. Does the facility have a copy of DA Pam 200-1?	◉ Yes	○ No	○ NA
d. Does the facility have a copy of 89th RSC Pam 200-1?	◉ Yes	○ No	○ NA
e. Is there a Facility SOP for Hazardous Communications (HAZCOM)?	◉ Yes	○ No	○ NA
f. Does the facility have a copy of the last Engineering Environmental Facility Assessment?	◉ Yes	○ No	○ NA
g. Have all noted deficiencies on the ECAS portion been corrected?	○ Yes	◉ No	○ NA
h. Are copies of Staff Assistance Visits conducted by 89th RSC personnel filed?	◉ Yes	○ No	○ NA
i. Are results of the last facility Environmental Compliance Assessment Checklist filed?	◉ Yes	○ No	○ NA
j. Have all visit/inspection reports from local,state,federal agencies been submitted to the 89th?	○ Yes	○ No	◉ NA
k. Have all EPCRA requirements been met with the Local Emergency Planning Council?	○ Yes	○ No	◉ NA
l. Are weekly Hazardous Waste Storage Area Checklists on File?	○ Yes	○ No	◉ NA

89th ENVIRONMENTAL POLLUTION ABATEMENT FILES

a. Does the facility have Asbestos Survey and Abatement Records?	○ Yes	◉ No	○ NA
b. Does the facility have an Asbestos Awareness Plan?	○ Yes	○ No	◉ NA
c. Is there a Backflow Prevention Device installed on the facility water system?	○ Yes	○ No	◉ NA
d. Has it been tested for serviceability in the past 12 months?	○ Yes	○ No	◉ NA
e. Does the facility participate in any recycling programs?	◉ Yes	○ No	○ NA
f. Has the grease trap been serviced in the past 2 years?	○ Yes	○ No	◉ NA
g. Does the facility have the required Indoor Rifle Range Closure documentation on hand?	◉ Yes	○ No	○ NA
h. Has the containment basin and OWS been serviced in the past 2 years?	◉ Yes	○ No	○ NA
i. Is there an inventory of any Ozone Depleting Chemicals in use?	◉ Yes	○ No	○ NA
j. Does the facility maintain certificates for pesticide/herbicide applicators?	◉ Yes	○ No	○ NA
k. Are the herbicide/pesticide application reports properly filed?	◉ Yes	○ No	○ NA
l. Does the facility have a copy of the Pollution Prevention plan for facilities?	◉ Yes	○ No	○ NA
m. Has the facility been tested for radon and are the results filed?	◉ Yes	○ No	○ NA
n. Is the radon abatement plan in place?	○ Yes	○ No	◉ NA
o. If this is a historic building, has the State Historic Preservation Office provided documentation?	○ Yes	○ No	◉ NA
p. Are records supporting the SWP3 up to date and filed?	○ Yes	○ No	◉ NA
q. Is any existing UST properly documented and permitted?	○ Yes	○ No	◉ NA
r. Does the facility have closure documents for any removed Under-ground Storage Tanks?	○ Yes	○ No	◉ NA
s. Have transformers and light ballasts been determined to be PCB-free?	◉ Yes	○ No	○ NA
t. Is there an Environmental Noise Management Program at this facility?	○ Yes	○ No	◉ NA

[illegible] ENVIRONMENTAL POLLUTION COMPLIANCE

a. Have all (NOV) from state agencies in the past 12 months been corrected?	○ Yes ○ No ● NA
b. Have all Notice of Violations (NOV) from federal agencies been corrected?	○ Yes ○ No ● NA
c. Have all Notice of Violations (NOV) from local agencies been corrected?	○ Yes ○ No ● NA
d. Are copies of all NOV's received by the facility properly filed?	○ Yes ○ No ● NA
e. Have copies of all NOV's received by the facility been forwarded to the 89th?	○ Yes ○ No ● NA
f. Are copies of all Spill Response Incident Reports properly filed?	○ Yes ○ No ● NA
g. Have all Record of Spill Response Incident Reports been forwarded to the 89th?	○ Yes ○ No ● NA

NOTES:

[illegible] HAZARDOUS MATERIALS MANAGEMENT

a. Is the Hazardous Material/Waste Management Plan being followed?	○ Yes ● No ○ NA
b. Is the Spill Response Plan posted near the storage area?	● Yes ○ No ○ NA
c. Does the facility have an engineer approved SPCC Plan?	○ Yes ○ No ● NA
d. Does the facility have a Hazardous Waste Generator Permit and ID Numbers?	● Yes ○ No ○ NA
e. Are all Hazardous Waste Manifests for turn ins on hand for current and two previous years?	● Yes ○ No ○ NA
f. Is there a copy of the last Annual Generator's Hazardous Waste Summary Report on file?	○ Yes ● No ○ NA
g. Has there been an Annual Hazardous Material Inventory submitted to the SEC?	● Yes ○ No ○ NA
h. Does the Facility Environmental Manager maintain a current HM inventory?	○ Yes ● No ○ NA
i. Does each tenant activity maintain a current HM inventory for stored products?	○ Yes ○ No ● NA
j. Does the FEM have Material Safety Data Sheets (MSDS) for all HM stored at the facility?	○ Yes ● No ○ NA
k. Are there MSDS sheets for HM at each location where HM is stored?	○ Yes ● No ○ NA
l. Are there any DRMO reutilization documents for transferred HM?	○ Yes ○ No ● NA
m. Are medical wastes disposed of properly.	○ Yes ○ No ● NA
n. Are spill response materials/kits readily available?	● Yes ○ No ○ NA
o. Are all flammable materials stored in a flammable storage cabinet/room?	○ Yes ● No ○ NA
p. Are storage quantities minimized to reduce the potential for spills or leaks?	● Yes ○ No ○ NA
q. Are storage time limits for hazardous waste being monitored and followed?	○ Yes ○ No ● NA
r. Is used Antifreeze being disposed of properly?	● Yes ○ No ○ NA
s. Is used Oil being disposed of properly?	● Yes ○ No ○ NA
t. Is the MEP lot free of oil stains and debris?	● Yes ○ No ○ NA

NOTES:

[illegible] ENVIRONMENTAL TRAINING

a. Has a Facility Environmental Manager been appointed?	● Yes ○ No ○ NA
b. Has a Facility Spill Response Team been appointed?	● Yes ○ No ○ NA
c. Are Additional Duty Appointment memorandums on file?	● Yes ○ No ○ NA
d. Has the Facility Manager been trained?	○ Yes ● No ○ NA
e. Has the Facility Environmental Manager been trained?	○ Yes ● No ○ NA
f. Has Facility Spill Response Team training been conducted in the past 12 months?	○ Yes ● No ○ NA
g. Has Environmental Awareness/HAZCOM Program training been conducted for all soldiers?	○ Yes ● No ○ NA

NOTES:

Signature of Inspector Steven R. Miller

Date of Signature 6-Jun-05

SAV # 716

BRAC – NEPA NEEDS QUESTIONNAIRE

BRAC 05 INSTALLATION NEPA INFORMATION NEEDS QUESTIONNAIRE

(Enter information into the shaded areas)

NOTE: *The purpose of this questionnaire is to obtain baseline information that will be used to complete NEPA Plans of Action. This information will be used to assist in determining the level of NEPA documentation required to support the BRAC action and to ascertain whether any supporting environmental studies need to be performed. Use best judgment in answering questions regarding potential impacts of the BRAC action. Appropriate impact analyses and documentation will be carried out in the appropriate NEPA documents.*

NOTE: RESERVE COMPONENT ACTIVITIES NEED ONLY TO ANSWER THOSE QUESTIONS HIGHLIGHTED IN BLUE.

FOR FURTHER INFORMATION CONTACT THE FOLLOWING NEPA SUPPORT TEAM REPRESENTATIVES:

Dr. Neil Robison, USACE, Mobile District (251) 690-3018 *neil.d.robison@sam.usace.army.mil*
Brian Peck, USACE, Mobile District (251) 690-2750 *brian.e.peck@sam.usace.army.mil*
Sue Holtham, USACE, New England District (978) 318-8536 *susan.e.holtham@usace.army.mil*

FOR FURTHER INFORMATION REGARDING CULTURAL RESOURCES, CONTACT:

Ernie Seckinger, USACE, Mobile District (251) 694-4107 *ernest.w.seckinger.jr@sam.usace.army.mil*

PART A BACKGROUND INFORMATION

1. Name of Installation:	Burlington Memorial USARC		
2. BRAC Action:	Closure		
3. Installation POC:	SFC Michael Shea		
4. Address:	17879 Hwy 79, Middletown, IA 52638		
5. Comm Phone:	319-392-4295	6. Comm. FAX:	319-392-4884
7. DSN Phone:		8. DSN FAX:	
9. E-mail:	michael.shea@us.army.mil		

PART B HISTORICAL INFORMATION

1. List below all previous NEPA documents prepared for the installation within the last five years including: Environmental Assessments (EAs)/Findings of No Significant Impact (FNSIs), and Environmental Impact Statements (EISs)/Records of Decision (RODs). Include title, action, and date of document.

a.
b.
c.
d.
e.
f.
etc.

2. Describe the location of the site(s) affected by the BRAC action, including the environmental setting, and present and past use of the site(s).

The facility is located adjacent to the Army Ammunition Plant. It is located on flat ground, on the west edge of Middletown, IA. Present operations include administrative, training and an Organizational Maintenance Shop. Prior to construction of the facility, the land was reportedly used for manufacturing of ammunition.

3. Has the installation previously conducted field training activities (including those using munitions), engaged in any construction, or any other type of activity or operation on the site(s)? ☐ YES ☐ NO

If YES, explain what, when, and current operations.

4. Has the type of equipment (tracked or wheeled vehicles) to be used under the BRAC action been operated on the site(s) before? ☐ YES ☐ NO ☐ N/A

PART C DESCRIPTION OF BRAC ACTION

1. The BRAC action will involve:

a. Training activities/areas	☐ YES	☑ NO
b. Construction	☐ YES	☑ NO
c. Maintenance/Repair/Rehabilitation	☐ YES	☑ NO
d. Reorganization/Re-stationing	☐ YES	☑ NO
e. Real Estate Action	☑ YES	☐ NO
f. Manufacturing	☐ YES	☑ NO
g. Laboratories/Research	☐ YES	☑ NO
h. Other (Explain)		

2. Will the BRAC action result in the disposal of excess facilities and/or lands? ☑ YES ☐ NO

If YES, explain how.

If YES, will the property be transferred to another military department or Federal agency? ☐ YES ☑ NO

If YES, provide the name of the receiving agency or department.

3. Will the BRAC action consist of facility expansion? ☐ YES ☑ NO

If YES, describe extent of expansion (i.e., amount of square footage, acreage, etc.)

PART D ENVIRONMENTAL RESOURCE ANALYSIS

1. LAND USE

a. Briefly describe the current land use, including how the site(s) is currently zoned (i.e., commercial, residential, park, park, etc.)

b. Will the BRAC action substantially alter the present or future land use of the site (i.e., park to parking lot)? ☐ YES ☑ NO

If YES, explain how.

c. Will the proposed construction activities disturb more than 5 cumulative acres? ☐ YES ☑ NO

d. Briefly describe the surrounding area land uses and settings.

e. Has an Environmental Baseline Survey been completed for the project area? ☐ YES ☑ NO
If YES, provide the name of the documents and dates.

f. Will the BRAC action include new field training, test activites or other operations that affect an excess of 5 acres Army land which is not within the existing Real Property Master Plan or training cycle? ☐ YES ☑ NO
If YES, describe.

g. Are there any recreational use agreements with local interests? ☐ YES ☐ NO
If YES, provide the name, date and brief description of the agreement.

h. Does the BRAC action conflict with the community's adopted land use plans and goals for adjacent properties? ☐ YES ☑ NO
If YES, describe how.

i. Will any new field training activities proposed under the BRAC action cause substantial change (i.e. effects) to land not controlled by the military (for example, encroachment into federal airspace due to weapon firing). ☐ YES ☑ NO
If YES, describe.

j. Have the following plans, reports, and regulations been prepared for the installation?

(1). Real Property Master Plans ☐ YES ☐ NO
If YES, provide the names and dates of the plans.

(2). Recreational Use Plans ☐ YES ☐ NO
If YES, provide the names and dates of the plans.

(3) Public Use Surveys ☐ YES ☐ NO
If YES, provide the names and dates of the surveys.

(4) Hunting and Fishing Regulations ☐ YES ☐ NO
If YES, provide the names and dates of the regulations.

(5) Agricultural Lease Plans ☐ YES ☐ NO
If YES, provide the names and dates of the plans.

(6) Land Condition Trend Analysis Reports ☐ YES ☐ NO
If YES, provide the names and dates of the reports.

(7) Land Rehabilitation and Maintenance Reports ☐ YES ☐ NO
If YES, provide the names and dates of the reports.

k. Does the installation have the following GIS land use mapping?

(1) Installation base map, displaying boundary, structures, training areas, ranges, drop zones, cantonment area, HTRW areas, etc. ☐ YES ☐ NO

If YES, insert reference and date of mapping.

(2) Land Use/Land Cover ☐ YES ☐ NO

If YES, insert reference and date of mapping.

(3) Agricultural Lease Plots ☐ YES ☐ NO

If YES, insert reference and date of mapping.

2. AESTHETICS/VISUAL

a. Are there viewsheds in the area surrounding the installation that other interests (state, local, private) have determined to be significant (i.e., sensitive environmental areas, national parks, state parks, etc.)? ☐ YES ☐ NO

If YES, describe and provide references.

b. Will there be substantial changes to the landscape of the installation that could be viewed by the public (new buildings, training areas, airports, etc.)? ☐ YES ☑ NO

If YES, describe.

3. AIR QUALITY

a. Is the installation in a non-attainment area? ☐ YES ☐ NO

b. Will the BRAC action produce air emissions, introduce smoke, suspend particles or noxious gases into the air?

During construction/training activities. ☐ YES ☐ NO

During normal operations, after construction completed. ☐ YES ☐ NO

c. Will the action particulate or cause dust to migrate beyond project site boundaries?

During construction/training activities. ☐ YES ☐ NO

During normal operations, after construction completed. ☐ YES ☐ NO

d. Will the action require permits for stationary sources such as heating/cooling plants?

During construction. ☐ YES ☐ NO

During normal operations, after construction completed. ☐ YES ☐ NO

e. Will the action expose sensitive receptors (threatened and endangered species, children) to pollutants?

During construction/training activities. ☐ YES ☐ NO

During normal operations, after construction completed. ☐ YES ☐ NO

f. Has the installation prepared any air quality reports? ☐ YES ☐ NO

If YES, insert references that describe stationary and mobile sources of air emissions.

g. Will the BRAC action require a Clean Air Act conformity determination? ☐ YES ☑ NO

4. NOISE

a. Will the BRAC action generate new mobile and/or stationary noise sources? ☐ YES ☑ NO

If YES, describe.

b. Is the BRAC action close to any civilian community where noise might affect the population? ☐ YES ☐ NO
If YES, provide below distances (feet, yards, miles) to applicable noise sensitive receptors.

Noise Sensitive Receptors	Distance to Receptors
a. Residence/Homes	
b. Churches	
c. Schools	
d. Hospitals	
e. Libraries	
f. Wilderness Areas.	
g. Other	
h.	
i.	

c. Does the installation have ICUZ studies that contain GIS based noise contour information? ☐ YES ☐ NO
If YES, provide references and dates.

d. Will the BRAC action increase ICUZ levels and/or the duration of noise levels to sensitive receptors (see above) on/adjacent to the installation? ☐ YES ☑ NO

If YES, describe.

e. Will the BRAC action involve night (10 pm to 7 am) operations or activities? ☐ YES ☐ NO
If YES, describe.

f. Does the installation currently have aircraft activities? ☐ YES ☐ NO
If YES, identify any special requirements that are in place to minimize noise to adjacent areas from aircraft activities.

g. Will the BRAC action involve or add aircraft? ☐ YES ☐ NO
If YES, specify type (helicopter, fixed wing), minimum altitudes, no fly area(s), and flight times for aircraft operations.

h. Does the installation have any special requirements in place to minimize noise impacts to any adjacent sensitive areas from training or testing activities? ☐ YES ☐ NO
If YES, identify any special requirements to minimize impacts to sensitive areas.

5. GEOLOGY AND SOILS

a. Will the BRAC action result in long-term disruptions, displacements, or compaction of the soil, permanent change in topography or ground surface relief features of over 5 acres? ☐ YES ☑ NO
If YES, explain.

b. Will the BRAC action have the potential to increase erosion of soils by wind or water, either on or off the site after construction? ☐ YES ☐ NO
If YES, describe.

c. Does the installation have any geologic hazards i.e., seismicity, land subsidence or slope instability? ☐ YES ☑ NO

Will the BRAC action increase any geologic hazards? ☐ YES ☑ NO

If YES, describe.

d. Does the installation have any GIS mapping available for geologic hazards? ☐ YES ☐ NO

If YES, provide references and date of mapping.

e. Does the installation have GIS based soil survey mapping of soil types? ☐ YES ☐ NO

If YES, provide references and date of mapping.

f. Will the BRAC action affect prime or unique farmland soils? ☐ YES ☑ NO

If YES, describe.

6. WATER RESOURCES

a. Will the BRAC action change currents, or the course or direction of water movements, in either marine or fresh waters?

During construction/training activities. ☐ YES ☐ NO

During normal operations, after construction completed. ☐ YES ☐ NO

b. Will there be an increase in flooding due to the BRAC action?

During construction/training activities. ☐ YES ☑ NO

During normal operations, after construction completed. ☐ YES ☑ NO

c. Will the BRAC action discharge (sediments, liquids or solid wastes) into surface waters, or alter surface water quality and/or quantity?

During construction/training activities. ☐ YES ☑ NO

During normal operations, after construction completed. ☐ YES ☑ NO

d. Will the BRAC action change the quantity and/or quality of ground water, either through direct additions or withdrawals, or through interception of an aquifer by cuts or excavations?

During construction/training activities. ☐ YES ☑ NO

During normal operations, after construction completed. ☐ YES ☑ NO

e. Does the BRAC action have the potential to accidentally spill hazardous or toxic material near or in a body of water?

During construction/training activities. ☐ YES ☑ NO

During normal operations, after construction completed. ☐ YES ☑ NO

f. Will any construction or training activities associated with the BRAC action take place in wetlands? ☐ YES ☑ NO

If YES, describe.

g. Will the BRAC require construction of facilities or implement actions within floodplains?

During construction/training activities. ☐ YES ☑ NO

During normal operations, after construction completed. ☐ YES ☑ NO

h. Does the action require a discharge permit? ☐ YES ☐ NO

i. Does the action involve the construction of a water or a wastewater treatment system (oil, water separators, grease traps, etc.)? ☐ YES ☑ NO

If YES, explain.

j. Does the installation have the following reports, plans, and surveys?

(1) Water Quality Monitoring Reports ☐ YES ☐ NO

If YES, provide references.

(2) Lake Management Plans ☐ YES ☐ NO

If YES, provide references.

(3) Wetland Surveys ☐ YES ☐ NO

If YES, provide references.

k. Does the installation have GIS mapping of the following?

(1) Floodplains ☐ YES ☐ NO

If YES, provide reference and date of mapping.

(2) Wetlands (National Wetland Inventory and/or on-site surveys) ☐ YES ☐ NO

If YES, provide reference and date of mapping.

(3) Other Water Features (streams, lakes, ponds, groundwater, etc.) ☐ YES ☐ NO

If YES, provide reference and date of mapping.

l. Is the installation located in a state designated Coastal Zone area? ☐ YES ☑ NO

If YES, describe area.

m. Are there any designated Wild and Scenic Rivers on or adjacent to the installation? ☐ YES ☑ NO

If YES, describe.

7. NATURAL RESOURCES

a. Will the BRAC action change the diversity of species, or numbers of any species of mammals, birds, reptiles, amphibians, and fish or plants including trees, grass, shrubs, microflora, or aquatic plants? ☐ YES ☑ NO

If YES, explain how.

b. Will the BRAC action introduce non-native species of animals or plants into an area? ☐ YES ☐ NO

If YES, explain how.

c. Will the BRAC action affect federally listed threatened or endangered species or their designated critical habitats, or, a Federal candidate species, or, a species proposed for Federal listing or critical habitat? ☐ YES ☑ NO

If YES, explain how.

d. Have threatened or endangered species presence/absence surveys been conducted for the proposed site(s) affected by the proposed BRAC action? ☐ YES ☑ NO

If YES, explain when the survey was conducted and has the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service concurred with the survey results?

e. Will the BRAC action create barriers to prevent the migration or movement of animals (i.e., fences, walls, buildings)? ☐ YES ☑ NO

If YES, explain how.

f. Will the BRAC action deteriorate, alter or destroy existing fish or wildlife habitat? ☐ YES ☑ NO

If YES, explain how.

g. Will the BRAC action affect adjacent areas of critical environmental concern, or areas of unique or critical environmental sensitivity, or important wildlife habitats, including refuges (i.e., state designated critical habitats, federal refuges, etc.)? ☐ YES ☑ NO

If YES, explain what and how.

h. Does the installation have the following information?

(1) Integrated Natural Resource Management Plan/EA. ☐ YES ☐ NO

If YES, insert reference.

(2) Endangered Species Management Plan/EA. ☐ YES ☐ NO

If YES, insert reference.

(3) Biological Assessments/Biological Opinions. ☐ YES ☐ NO

If YES, insert reference.

(4) Planning Level Surveys (flora, fauna, threatened and endangered species, vegetative communities, invasive species and all available mapping). ☐ YES ☐ NO

If YES, insert reference.

(5) Fish and wildlife supporting plans and documents including fish surveys, stocking data, deer management plans, deer surveys, and small game surveys. ☐ YES ☐ NO

If YES, insert reference.

(6) Forest Management Plan. ☐ YES ☐ NO

If YES, insert reference.

(7) Integrated Pest Management Plan/EA. ☐ YES ☐ NO

If YES, insert reference.

(8) Rapid Bioassessment Protocol Surveys. ☐ YES ☐ NO

If YES, insert reference.

(9) Invasive Species Plan ☐ YES ☐ NO

If YES, insert reference.

i. Identify if the installation has GIS mapping for the following:

(1) Overall Habitat Categories (vegetative communities or general categories). ☐ YES ☐ NO

If YES, insert references and date of mapping.

(2) Rare, Threatened and Endangered Species locations. ☐ YES ☐ NO

If YES, insert references and date of mapping.

(3) Forest Management Areas. ☐ YES ☐ NO

If YES, insert references and date of mapping.

(4) Hunting/fishing Areas. ☐ YES ☐ NO

If YES, insert references and date of mapping.

8. CULTURAL RESOURCES

a. Have cultural resources surveys been conducted for the proposed site(s) where BRAC actions will take place? ☐ YES ☑ NO

If YES, explain when the survey took place and has the SHPO concurred with the results.

b. Provide below the number of archeological sites (including any known Traditional Cultural Properties or Sacred Sites) known to exist on the installation.

c. For those sites listed in question 8(b), provide the number that have been recommended as eligible or that are on the National Register of Historic Places.

d. For closing installations, provide the following information:

(1) Do curated archeological collections exist? ☐ YES ☐ NO

If YES, state where these collections reside.

(2) Does a curation agreement with a curation facility exist? ☐ YES ☐ NO

If YES, describe and provide reference.

(3) Does the installation have any collection of historic maps, photographs or drawings of the BRAC area? ☐ YES ☐ NO

If YES, briefly describe the extent of the materials/reports, and, provide a POC for this information.

e. To your knowledge, will the BRAC action affect historically significant structures, archeological sites, or places listed or eligible for listing on the National Register of Historic Places or National Historic Landmarks? ☐ YES ☑ NO

If YES, describe what and how.

f. To your knowledge, will the proposed BRAC action change the character or use of any historical property eligible for or listed in the National Register of Historic Places (i.e. historical buildings, structures, cemeteries, archeological sites, burial grounds, etc.)? ☐ YES ☑ NO

If YES, describe what and how.

g. To your knowledge, will the proposed BRAC action impact any resource of significance to a Native American Tribe? ☐ YES ☑ NO ☐ UNKNOWN

If YES, describe the resource and the impact on it.

h. List below the federally recognized Indian Tribe(s) that are in the area of this project or that may have an historical interest in these lands.

1.
2.
3.
etc.

Do you have a signed Consultation Agreement with the Tribe(s)? ☐ YES ☐ NO

If NO, explain the plan to begin consultation and when it will begin.

i. Note below if the following resources are present within the project area.

(1) Historically significant structures, archaeological sites, or places listed or eligible for listing on the National Register of Historic Places or National Historic Landmarks.

☐ YES ☐ NO

If YES, provide references.

(2) Properties of traditional religious and cultural importance to an Indian tribe or Native Hawaiian organization.

☐ YES ☐ NO

If YES, provide references.

(3) GIS mapping of cultural resources that may be present on the installation.

☐ YES ☐ NO

If YES, provide references and date of mapping.

j. Provide below the number of buildings and structures in the BRAC area built during or before 1960.

None. Facility built in 1972.

k. Of those structures noted in (j) above, how many have been inventoried, evaluated for National Register eligibility and coordinated in writing with the State Historic Preservation Office (SHPO)? List numbers of buildings/structures eligible and not eligible separately.

l. List any cultural resources documents (including the date) the installation has completed or is in the process of completing that pertain to the BRAC area. Include Integrated Cultural Resource Management Plans (ICRMPs), Historic Building Inventories/Assessments, HABS/HAER documentation, Historic Contexts, Cold War historical studies, and GIS data that includes cultural resources.

1.
2.
3.
4.
5.
6.
7.

m. List by name any cultural resource Programmatic Agreements or Memorandum of Agreements currently in effect that pertain to the BRAC area. Include signatory parties and the date the agreement was signed.

1.
2.
3.
4.
5.
6.
etc.

n. Provide a brief description of the military missions within the BRAC area during the Cold War (1946-1991). List any buildings that may have Cold War historical significance associated with those missions.

None

o. Provide below a narrative covering other cultural resources issues at your installation not adequately covered in this questionnaire but that you feel are pertinent to the BRAC process.

p. Provide below the name, address, phone number, and email address of the installation Historic Preservation Officer or the person completing this portion of the questionnaire.

Name:	Kate Ellison
Address:	Omaha USARC, 2101 Woolworth Ave, Omaha, NE 68108
Phone Number:	402-977-4400, x 4473
E-mail address:	kate.ellison@us.army.mil

9. SOCIOECONOMICS AND ENVIRONMENTAL JUSTICE

a. Note below any agreements with local municipalities for municipal services (fire, emergency, law enforcement). If installation has its own services, describe.

b. Will the BRAC action result in a need for new or increased municipal services (fire, police, ambulance) above current capability? ☐ YES ☑ NO

If YES, describe.

c. Will the BRAC action result in a need for new housing, schools, and social services (community, medical) on the installation? ☐ YES ☐ NO

If YES, describe.

d. Will the BRAC action alter the location, distribution, density, or growth rate of the human population of the region of influence that would affect growth and housing construction? ☐ YES ☑ NO

If YES, explain how.

e. Will there be disproportionate environmental health and safety risks to children (Refer to Executive Order 13045)?

During construction. ☐ YES ☑ NO

During the normal operations, after construction completed. ☐ YES ☑ NO

f. Will there be disproportionate environmental or health effects to minority or low income populations (Refer to Executive Order 12898)? ☐ YES ☑ NO

If YES, explain the issues.

10. TRAFFIC/TRANSPORTATION

a. Will the BRAC action effect the existing traffic and transportation infrastructure present on the installation, including roadways, rail, air, public transportation, etc.? ☐ YES ☐ NO

If YES, explain.

b. Will the BRAC action result in generation of or increase in vehicular movement or traffic? ☐ YES ☐ NO

If YES, explain.

c. Will the volume of traffic estimated under the BRAC action exceed the existing road capacity? ☐ YES ☑ NO

If YES, explain.

d. Will the BRAC action use and/or construct unimproved roads? ☐ YES ☐ NO

If YES, explain.

e. Does GIS mapping exist that identifies the road network on the installation? ☐ YES ☐ NO

If YES, provide references and date of mapping.

11. UTILITIES

a. Will the BRAC action result in a need for new systems, or, substantial alterations to the following utilities?

(1) Water Supply and Treatment Systems. ☐ YES ☑ NO

If YES, explain and provide permit information and references.

(2) Power Supply (electrical, fossil fuel, other). ☐ YES ☑ NO

If YES, explain and provide permit information and references.

(3) Wastewater Treatment Facilities (Is this permitted at the site?). ☐ YES ☑ NO

If YES, explain and provide permit information and references.

(4) Storm Water and Sewer Collection System. ☐ YES ☑ NO

If YES, explain and provide permit information and references.

(5) Solid Waste Disposal. ☐ YES ☑ NO

If YES, explain and provide permit information and references.

(6) Telephone and Telecommunications. ☐ YES ☑ NO

If YES, explain and provide permit information and references.

(7) Wash Racks. ☐ YES ☑ NO

If YES, explain and provide permit information and references.

12. HAZARDOUS AND TOXIC MATERIALS

a. Will the BRAC action generate, store, and/or prepare for the disposal of hazardous waste or materials or petroleum products?

During construction/training activities. ☑ YES ☐ NO

During normal operations, after construction completed. ☑ YES ☐ NO

b. Does the BRAC action require a permit to accumulate hazardous material/waste at the site?

During construction/training activities. ☐ YES ☐ NO

During normal operations, after construction completed. ☐ YES ☐ NO

c. Does the BRAC action have an increased risk for explosion, spill or release of hazardous materials/waste including, but not limited to Munitions and Explosives of Concern (MEC), pesticides, chemicals or radiation?

During construction/training activities. ☐ YES ☑ NO

During normal operations, after construction completed. ☐ YES ☑ NO

d. Does the BRAC action include the construction of a laboratory that will use hazardous chemicals, drugs or biological or radioactive materials? ☐ YES ☑ NO

If YES, explain.

e. Does the installation have a plan describing procedures for the proper handling, storage, use, disposal, and cleanup of hazardous and/or toxic materials? ☐ YES ☐ NO

If NO, is there a need for detailed procedures? Explain.

f. Will the BRAC action require the presence of trained hazmat personnel to handle and dispose of hazardous and toxic materials/waste?

During construction/training activities. ☐ YES ☐ NO

During normal operations, after construction completed. ☐ YES ☐ NO

g. Will the BRAC action generate solid waste which must be disposed of either on or off site?

During construction/training activities. ☐ YES ☐ NO

During normal operations, after construction completed. ☐ YES ☐ NO

h. Will the BRAC action involve the opportunity for hazardous materials minimization and recycling?

During construction/training activities. ☐ YES ☐ NO

During normal operations, after construction completed. ☐ YES ☐ NO

i. Is the installation located on a National Priorities List (NPL) site? ☐ YES ☐ NO

j. Are there currently restrictions on use of the property due to the presence of hazardous waste, materials, UXO or ongoing site remediation activities? ☐ YES ☑ NO

If YES, describe.

k. Provide information/references below that describe the following, including any existing permits.

(1) Sources of hazardous waste generation.
References:

(2) Treatment, storage and/or disposal of hazardous waste or materials.
References:

(3) Ongoing site remediation activities.
References:

PART E DETERMINATION

Your opinions are requested below based on your familiarity with the installation and the information provided in this questionnaire.

a. Does the BRAC action have the potential to degrade the quality of the environment, or curtail the diversity of the environment? ☐ YES ☐ NO

b. Does the BRAC action have the potential for cumulative impacts on environmental quality when the impacts are combined with those of other non-Federal or Federal actions or if the action is of lengthy duration? ☐ YES ☐ NO

c. Does the BRAC action have environmental effects which will cause substantial adverse effects on the human or the natural environment either directly or indirectly? ☐ YES ☐ NO

RECORDS OF ENVIRONMENTAL CONSIDERATION

DEPARTMENT OF THE ARMY
HEADQUARTERS, UNITED STATES ARMY 89TH REGIONAL SUPPORT COMMAND
3130 GEORGE WASHINGTON BOULEVARD
WICHITA, KANSAS 67210-1598

REPLY TO
ATTENTION OF

RECORD OF ENVIRONMENTAL CONSIDERATION

TO: 89th RSC Engineering/Planning Section

FROM: 89th RSC Engineering/Environmental Section

PROJECT TITLE: Replace windows in Organizational Maintenance Shop (OMS), at the U.S. Army Reserve Training Center, Middletown, IA.
DESCRIPTION OF PROPOSED ACTION: Work Order #WB00004-5J.

ANTICIPATED DATE AND/OR DURATION OF PROPOSED ACTION:

Fall 1996
REASON FOR USING RECORD OF ENVIRONMENTAL CONSIDERATION: (choose one)

a. Adequately cover in the existing EA _____ EIS _____ entitled: _____
_____ and dated _____.

OR,

b. Qualifies for categorical exclusion, A-5 AR 200-2, Appendix A, (and no extraordinary circumstance exist and defined in Paragraph 4-3), because it is a minor repair or renovation to an existing facility.

Additional supporting documentation _____
_____ dated _____.

c. This REC is for Work Order #WB0004-5J, Replace windows, OMS, USARTC, Middletown, IA. Any changes, modifications or adjustments to the scope of work, contract or work plan, subsequent to the date on this document makes this REC null and void.

Prepared By: Maria Lehner Date: 31 Oct 96.
MARIA LEHNER
Environmental Coordinator
89TH RSC

Reviewed By: Date: 96 11 05
STEVEN A. LAWSON
Environmental Manager
89TH RSC

Approved By: Date: 5 NOV 96
MICHAEL D. HLADY
LTC, EN
Regional Engineer

PRELIMINARY ASSESSMENT SCREENING
REPLACE WINDOWS ON ORGANIZATIONAL MAINTENANCE SHOP (OMS)
U.S. ARMY RESERVE CENTER (USARTC), MIDDLETOWN, IA
WORK ORDER #WB00004-5J
BY MARIA LEHNER

1. On 31 July 96, a site visit was completed for a Preliminary Assessment Screening (PAS) for the replacement of the windows in the OMS. The USARTC is located at RR #1, Box 130, Middletown, IA. The OMS occupies approximately 3000 square feet and was built in 1972.

2. The existing windows are the old single pane type (Appendix A). They have an inadequate weather seal, leak around the sills, and do not open easily. The project involves replacing the existing windows with energy efficient windows and frames

3. An on-site review was conducted for the renovation of the facility. There were no environmental concerns to note for this project.

4. Recommend the windows on the OMS at the USARTC in Middletown, IA be replaced.

5. This PAS is for Work Order #WB00004-5J, Replace windows, OMS, USARTC, Middletown, IA. Any changes, modifications or adjustments to the scope of work, contract or work plan, subsequent to the date on this document, makes this PAS null and void.

PREPARED BY: Maria Lehner DATE: 31 Oct 96.
MARIA LEHNER
Environmental Coordinator

APPROVED BY: DATE: 9 Nov 05
STEVEN A. LAWSON
Environmental Manager
U.S. Army 89th Regional Support Command

APPROVED BY: DATE: 9 Nov 05
MICHAEL D. HLADY
LTC, EN
Regional Engineer

PRELIMINARY ASSESSMENT SCREENING (PAS) INFORMATION CHECKLIST

SITE NAME: **U.S. Army Reserve Training Center, Middletown, IA**

SITE USE: **OMS**

ADDRESS: **U.S. Army Reserve Training Center**
RR #1, Box 130.
Middletown, IA 52368-9700

DATE: **31 October 1996**

ENVIRONMENTAL:

ENDANGERED RESOURCES: The project covers work on the OMS. Therefore, no impact to endangered or threatened species is expected. No federal or state endangered and threatened species are believed to exist on the property.

CULTURAL RESOURCES: The building is a one story brick building built in 1972. It has two maintenance bays. A request to review a renovation project was sent to State Historical Society of Iowa for the project (Appendix B). The Historical Society responded with a finding of no effect from this renovation (Appendix C). Therefore, no significant impact to cultural resources is expected.

WETLANDS, FLOODPLAINS, AND WATERBODIES:. The property is not located on a floodplain or near any wetlands or waterbodies. Therefore, there is no threat to wetlands, floodplains and waterbodies.

UNEXPLODED ORDNANCE: The facility is built within the Iowa Army Ammunition Plant. However, no unexploded ordnance is believed to be located in or around the proposed site.

HAZARDOUS MATERIALS AND/OR WASTE SPILLS: Areas of past spills were not observed or past spills documented during the site visit.

ASBESTOS: There has not been an asbestos survey conducted on this facility. No asbestos containing material is expected to be associated with the windows. This project will not impact any possible asbestos containing material that may be located in the OMS.

ATMOSPHERIC LEAD PARTICLES IN INDOOR SHOOTING RANGES: There is a firing range located in the main building of the facility. The firing range has been closed until it can be cleaned and converted into storage area. This project will involve work in the OMS only.

ON SITE OF OLD LANDFILL: There is no evidence that the proposed site is built on or near a former landfill of any type.

RADON: The facility was tested for radon and levels were under the EPA action level of 4.0 picocuries/liter.

PCB BALLASTS: Due to the age of the building it is possible that the light fixtures in the facility contain PCB's. However, this project will not affect any light fixtures.

LEAD BASED PAINT: Due to the age of the building, it is possible that the window frames were painted with lead based paint. Since this potential exists, the frames that are removed must not be scraped, chipped or ground up in any manner or reused. They must be disposed of in a landfill.

UNDERGROUND STORAGE TANK: No underground storage tanks exist on site.

NOISE: The old windows will be replace with energy efficient ones. This will reduce the amount of noise from vehicle maintenance to the outside.

CLEAN AIR: The facility is not located in a non-attainment area. No sources of air emissions are expected to increase.

ODS PHASE OUT: The renovation does not include work on any ODS equipment that may be located within the facility.

BACKFLOW PREVENTION: There are no backflow prevention devices on the water supply lines in this facility. The renovation will not involve work on the water supply lines.

STORMWATER: This project involves work on renovation inside the facility, therefore, stormwater is not a factor. Currently, there are no stormwater permits or requirements associated with this facility.

PERMITS REQUIRED: None.

APPENDICES

TITLE: APPENDIX A:

WINDOWS - OMS
WINDOW REPLACEMENT, USARTC, MIDDLETOWN, IA
31 OCTOBER 1996

APPENDIX B:

TITLE: LETTER SENT TO STATE HISTORICAL SOCIETY OF IOWA
WINDOW REPLACEMENT, USARTC, MIDDLETOWN, IA
31 OCTOBER 1996

APPENDIX C:

TITLE: LETTER FROM STATE HISTORICAL SOCIETY OF IOWA
WINDOW REPLACEMENT, USARTC, MIDDLETOWN, IA
31 OCTOBER 1996

TITLE: APPENDIX A:

WINDOWS - OMS
WINDOW REPLACEMENT, USARTC, MIDDLETOWN, IA
31 OCTOBER 1996

October 8, 1996

Engineering/Environmental

Mr. Ralph J. Christian
Consulting Architectural Historian
Review and Compliance Program
Historical Building
600 East Locust Street
Des Moines, Iowa 50319-0290

Dear Mr. Christian:

The U.S. Army 89th Regional Support Command is proposing to renovate the U.S. Army Reserve Training Center (USARTC) located at RR #1 Box 130, Middletown, IA. The USARTC is located on part of the Iowa Army Ammunition Plant (IAAP). The renovation currently includes replacing the windows in the vehicle maintenance building. However, there may be more renovations planned for this building in the future. The facility is a one story brick building, built in 1972. We are requesting a review of the proposed project regarding cultural and historic resources. A photo of the windows of the vehicle maintenance building is enclosed.

A written response can be sent to: USAR Medical Training Center, Attn: Maria Lehner, 6511 Chaffee Road, Des Moines, Iowa, 50315-6308. If there are any questions or additional information needed, please contact the undersigned at (515) 285-4113.

Sincerely,

Maria Lehner

Maria Lehner
Environmental Coordinator
89th Regional Support Command

Enclosure

APPENDIX B:

TITLE: LETTER SENT TO STATE HISTORICAL SOCIETY OF IOWA
WINDOW REPLACEMENT, USARTC, MIDDLETOWN, IA
31 OCTOBER 1996

State Historical Society of Iowa

The Historical Division of the Department of Cultural Affairs

October 17, 1996

In reply please refer to:
R&C#: 89-09-29-028

USAR Medical Training Center
Maria Lehner
6511 Chaffee Rd
Des Moines, IA 50315-6308

RE: ARMY - DES MOINES COUNTY - CITY OF MIDDLETOWN - USARTC LOCATED AT RR 1 BOX 130

Dear Ms Lehner

Based on the information you provided, we find that there are no historic properties which might be affected by the proposed undertaking. Therefore, we recommend project approval.

However, if the proposed project work uncovers an item or items which might be of archeological, historical or architectural interest, or if important data come to light in the project area, you should make reasonable efforts to avoid or minimize harm to the property until the significance of the discovery can be determined.

Should you have any questions please contact me at the number below.

Sincerely,

Ralph J. Christian

Ralph J. Christian
Architectural Historian
Community Programs Bureau
515/281-8697

APPENDIX C:

TITLE: LETTER FROM STATE HISTORICAL SOCIETY OF IOWA
WINDOW REPLACEMENT, USARTC, MIDDLETOWN, IA
31 OCTOBER 1996

DEPARTMENT OF THE ARMY
HEADQUARTERS, UNITED STATES ARMY 89TH REGIONAL SUPPORT COMMAND
3130 GEORGE WASHINGTON BOULEVARD
WICHITA, KANSAS 67210-1598

REPLY TO ATTENTION OF

RECORD OF ENVIRONMENTAL CONSIDERATION

TO: 89th RSC Engineering/Planning Section

FROM: 89th RSC Engineering/Environmental Section

PROJECT TITLE: Replace heat exchanger at the U.S. Army Reserve Training Center, Middletown, IA.

DESCRIPTION OF PROPOSED ACTION: Remove current heat exchanger and replace with a new one. Work Order #J19-01501 6J.

ANTICIPATED DATE AND/OR DURATION OF PROPOSED ACTION:
Fall 1996

REASON FOR USING RECORD OF ENVIRONMENTAL CONSIDERATION: (choose one)

a. Adequately cover in the existing EA _____ EIS _____ entitled: _____
_____ and dated _____.

OR,

b. **Qualifies for categorical exclusion, A-5 AR 200-2, Appendix A, (and no extraordinary circumstance exist and defined in Paragraph 4-3), because it is a minor repair or renovation to an existing facility.**

Additional supporting documentation _____
_____ dated _____.

c. This REC is for Work Order #J19-01501 6J, Replace heat exchanger, USARTC, Middletown, IA. Any changes, modifications or adjustments to the scope of work, contract or work plan, subsequent to the date on this document makes this REC null and void.

Prepared By: Maria Lehner Date: 30 Dec 96
MARIA LEHNER
Environmental Coordinator
89TH RSC

Reviewed By: St. A. Lawson Date: 961231
STEVEN A. LAWSON
Environmental Manager
89TH RSC

Approved By: Michael D. Hlady Date: 10 Jan 97
MICHAEL D. HLADY
LTC, EN
Regional Engineer

PRELIMINARY ASSESSMENT SCREENING
REPLACE HEAT EXCHANGER
U.S. ARMY RESERVE CENTER (USARTC), MIDDLETOWN, IA
WORK ORDER #J19-01501 6J
BY MARIA LEHNER

1. On 31 July 96, a site visit was completed for a Preliminary Assessment Screening (PAS) for the replacement of the heat exchanger in the USARTC. The USARTC is located at RR #1, Box 130, Middletown, IA. The USARTC is approximately 15,000 square feet and was built in 1972. Company C of the 389th Engineers is the only unit occupying the USARTC at this time. This project entails removing the old heat exchanger and replacing it with a new one. The current heat exchanger is rusted out and needs to be replaced for the 1996-97 heating season (Appendix A).

3. An on-site review was conducted for the replacement of the heat exchanger. The presence of asbestos in the insulation around the heat exchanger was an environmental concern. The insulation surrounding the heat exchanger contains 23% chrysotile asbestos (Appendix B). Therefore, the heat exchanger must be removed by a contractor trained and certified in the State of Iowa to handle and remove asbestos containing material. All removal and disposal of asbestos containing materials must be done in accordance with National Emissions and Hazardous Air Pollutants (NESHAP) Standards. The ends of the insulation on the connecting pipes must be encapsulated if the insulation is disturbed during removal of the heat exchanger. The new insulation must be labeled "Asbestos Free". No other environmental concerns were noted for this project.

4. Recommend the heat exchanger be removed provided: the contractor is trained and certified to handle and dispose of asbestos containing material; all removal and disposal is conducted in accordance with the law; the ends of the insulation on the connecting pipes is encapsulated if disturbed and the new insulation is labeled "Asbestos Free".

5. This PAS is for Work Order #J19-01501 6J, Replace heat exchanger, USARTC, Middletown, IA. Any changes, modifications or adjustments to the scope of work, contract or work plan, subsequent to the date on this document, makes this PAS null and void.

PREPARED BY: Maria Lehner DATE: 30 Dec 96
MARIA LEHNER
Environmental Coordinator

APPROVED BY: Steven A. Lawson DATE: 961231
STEVEN A. LAWSON
Environmental Manager
U.S. Army 89th Regional Support Command

APPROVED BY: Michael D. Hlady DATE: 10 Jan 97
MICHAEL D. HLADY
LTC, EN
Regional Engineer

PRELIMINARY ASSESSMENT SCREENING (PAS) INFORMATION CHECKLIST

SITE NAME: U.S. Army Reserve Training Center, Middletown, IA

PROJECT: Replace Heat Exchanger

ADDRESS: U.S. Army Reserve Training Center
RR #1, Box 130.
Middletown, IA 52368-9700

DATE: 30 December 1996

ENVIRONMENTAL:

ENDANGERED RESOURCES: The project covers work in the USARTC. Therefore, no impact to endangered or threatened species is expected. No federal or state endangered and threatened species are believed to exist on the property.

CULTURAL RESOURCES: The building is a one story brick building built in 1972. A request to review a renovation project was sent to State Historical Society of Iowa for the project (Appendix C). The Historical Society responded with a finding of no effect from this renovation (Appendix D). Therefore, no significant impact to cultural resources is expected.

WETLANDS, FLOODPLAINS, AND WATERBODIES:. The property is not located on a floodplain or near any wetlands or waterbodies. Therefore, there is no threat to wetlands, floodplains and waterbodies.

UNEXPLODED ORDNANCE: The facility is built within the Iowa Army Ammunition Plant. However, no unexploded ordnance is believed to be located in or around the proposed site.

HAZARDOUS MATERIALS AND/OR WASTE SPILLS: Areas of past spills were not observed or past spills documented during the site visit.

ASBESTOS: There has not been a complete asbestos survey conducted on this facility. The insulation around the heat exchanger was tested for asbestos for this project. The results show the insulation contains 23% chrysotile (Appendix B). Therefore, the insulation around the heat exchanger and connecting pipes must be removed by a contractor trained and certified in the State of Iowa to handle and remove asbestos containing material. Asbestos containing materials will be removed by workers who have had asbestos training and who wear the appropriate personal protective equipment in accordance with 29 CFR 1910.001. Questions or information requests pertaining to asbestos can be directed to Mr. Marion Burnside, Iowa Department of Natural Resources, Air Quality Division. (515)281-8443. All asbestos containing material must be disposed of in accordance with the law. The insulation around the connecting pipes must be encapsulated if disturbed during the removal of the heat exchanger. The new insulation for the heat exchanger must meet Environmental Protection agency's manufacturing requirements and be labeled "Asbestos Free".

ATMOSPHERIC LEAD PARTICLES IN INDOOR SHOOTING RANGES: There is a firing range located in the main building of the facility. The firing range has been closed until it can be cleaned and converted into storage area. This project will involve work in the furnace room only.

ON SITE OF OLD LANDFILL: There is no evidence that the proposed site is built on or near a former landfill of any type.

RADON: The facility was tested for radon and levels were under the EPA action level of 4.0 picocuries/liter.

PCB BALLASTS: Due to the age of the building it is possible that the light fixtures in the facility contain PCB's. However, this project will not affect any light fixtures.

LEAD BASED PAINT: Due to the age of the building, it is possible that the window frames were painted with lead based paint. This project does not involve disturbing any painted surfaces.

UNDERGROUND STORAGE TANK: No underground storage tanks exist on site.

NOISE: The noise levels at this facility are insignificant. They are located just outside of any residential areas and are located on IAAP land. There will be no effect on noise from this project.

CLEAN AIR: The facility is not located in a non-attainment area. No sources of air emissions are expected to increase.

OZONE DEPLETING CHEMICALS PHASE OUT: There is not a complete survey of ODC containing equipment. The project does not include work on any ODC equipment that may be located within the facility.

BACKFLOW PREVENTION: There are no backflow prevention devices on the water supply lines in this facility. The project will not involve work on the water supply lines.

STORMWATER: This project involves work inside the facility, therefore, stormwater is not a factor. Currently, there are no stormwater permits or requirements associated with this facility.

PERMITS REQUIRED: None.

APPENDICES

TITLE: **APPENDIX A:**

HEAT EXCHANGER
HEAT EXCHANGER REPLACEMENT, USARTC, MIDDLETOWN, IA
30 DECEMBER 1996

APPENDIX B:

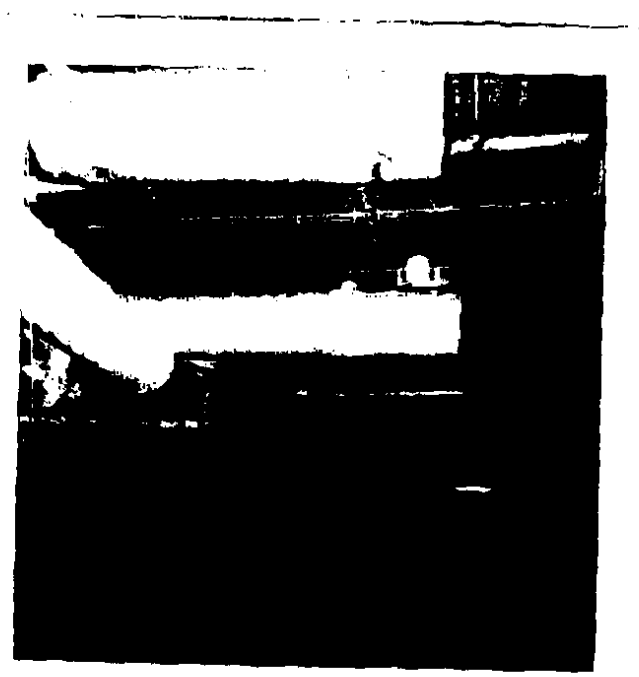
TITLE: ASBESTOS RESULTS
HEAT EXCHANGER REPLACEMENT, USARTC, MIDDLETOWN, IA
30 DECEMBER 1996

APPENDIX C:

TITLE: LETTER SENT TO STATE HISTORICAL SOCIETY OF IOWA
HEAT EXCHANGER REPLACEMENT, USARTC, MIDDLETOWN, IA
30 DECEMBER 1996

APPENDIX D:

TITLE: LETTER FROM STATE HISTORICAL SOCIETY OF IOWA
HEAT EXCHANGER REPLACEMENT, USARTC, MIDDLETOWN, IA
30 DECEMBER 1996



TITLE: APPENDIX A:

HEAT EXCHANGER
HEAT EXCHANGER REPLACEMENT, USARTC, MIDDLETOWN, IA
30 DECEMBER 1996

October 8, 1996

Engineering/Environmental

Mr. Ralph J. Christian
Consulting Architectural Historian
Review and Compliance Program
Historical Building
600 East Locust Street
Des Moines, Iowa 50319-0290

Dear Mr. Christian:

The U.S. Army 89th Regional Support Command is proposing to renovate the U.S. Army Reserve Training Center (USARTC) located at RR #1 Box 130, Middletown, IA. The USARTC is located on part of the Iowa Army Ammunition Plant (IAAP). The renovation currently includes replacing the windows in the vehicle maintenance building. However, there may be more renovations planned for this building in the future. The facility is a one story brick building, built in 1972. We are requesting a review of the proposed project regarding cultural and historic resources. A photo of the windows of the vehicle maintenance building is enclosed.

A written response can be sent to: USAR Medical Training Center, Attn: Maria Lehner, 6511 Chaffee Road, Des Moines, Iowa, 50315-6308. If there are any questions or additional information needed, please contact the undersigned at (515) 285-4113.

Sincerely,

Maria Lehner

Maria Lehner
Environmental Coordinator
89th Regional Support Command

Enclosure

APPENDIX C:

TITLE: LETTER SENT TO STATE HISTORICAL SOCIETY OF IOWA
HEAT EXCHANGER REPLACEMENT, USARTC, MIDDLETOWN, IA
30 DECEMBER 1996

ENVIRONMENTAL HAZARDS SERVICES, INC

7469 White Pine Road
Richmond, Virginia 23237
Phone: (804) 275-6788 Fax: (804) 275-4987

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT:	Spectrum 3719 Bridge Ave., Suite 2 Davenport, IA 52807	DATE OF RECEIPT: DATE OF ANALYSIS: DATE OF REPORT:	05 DEC 1996 06 DEC 1996 06 DEC 1996
EHS PROJECT #:	12-96-0389	PROJECT:	961202 Army Reserve Bldg. 89th Regional Support

EHS SAMPLE#	CLIENT SAMPLE # / LAB. GROSS DESCRIPTION	% ASBESTOS	OTHER MATERIALS
01	101/ Off-White Fib.	23% Chrysotile 23% Total Asbestos	2% Cellulose 75% Non-Fibrous
02	102/	DID NOT ANALYZE	
03	103/	DID NOT ANALYZE	

Method: Polarized Light Microscopy, EPA Method 600/R-93/116

Standards: The current OSHA Standard is one percent (1%) by weight.

Analyst: Mark Case

Reviewed by: L. Miller-Blair, Environmental Geologist

NVLAP ACCREDITATION #1892 AIHA ACCREDITATION #612

NOTE: Results represent the analysis by Environmental Hazards Services, Inc., of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of Environmental Hazards Services, Inc.

Environmental Hazards Services, Inc. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), for enhanced detection capabilities) for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

NAD = No Asbestos Detected
SCF = Suspected Ceramic Fibers

– PAGE 01 of 01 – END OF REPORT –

APPENDIX B:

TITLE: ASBESTOS RESULTS
HEAT EXCHANGER REPLACEMENT, USARTC, MIDDLETOWN, IA
30 DECEMBER 1996

State Historical Society of Iowa

The Historical Division of the Department of Cultural Affairs

October 17, 1996

[redacted] to:
[redacted]

USAR Medical Training Center
Maria Lehner
6511 Chaffee Rd
Des Moines, IA 50315-6308

RE: ARMY - DES MOINES COUNTY - CITY OF MIDDLETOWN - USARTC LOCATED AT RR 1 BOX 130

Dear Ms Lehner

Based on the information you provided, we find that there are no historic properties which might be affected by the proposed undertaking. Therefore, we recommend project approval.

However, if the proposed project work uncovers an item or items which might be of archeological, historical or architectural interest, or if important data come to light in the project area, you should make reasonable efforts to avoid or minimize harm to the property until the significance of the discovery can be determined.

Should you have any questions please contact me at the number below.

Sincerely,

Ralph J. Christian

Ralph J. Christian
Architectural Historian
Community Programs Bureau
515/281-8697

APPENDIX D:

TITLE: LETTER FROM STATE HISTORICAL SOCIETY OF IOWA
HEAT EXCHANGER REPLACEMENT, USARTC, MIDDLETOWN, IA
30 DECEMBER 1996

file copy

DEPARTMENT OF THE ARMY

HEADQUARTERS, UNITED STATES ARMY 89TH REGIONAL SUPPORT COMMAND
2600 NORTH WOODLAWN STREET
WICHITA, KANSAS 67220-2799

REPLY TO
ATTENTION OF

RECORD OF ENVIRONMENTAL CONSIDERATION

TO: 89th RSC Engineering/Planning Section

FROM: 89th RSC Engineering/Environmental Section

PROJECT TITLE: Replace Entrance Doors, Project # J19000076J.

DESCRIPTION OF PROPOSED ACTION: Remove and replace doors at north entrance of ~~Middletown~~ USARTC.

ANTICIPATED DATE AND/OR DURATION OF PROPOSED ACTION: November 1997.

REASON FOR USING RECORD OF ENVIRONMENTAL CONSIDERATION:

a. Adequately covered in the existing EA _____ EIS _____ entitled: _____
_____ and dated _____

OR,

b. Qualifies for categorical exclusion A-5, AR 200-2, Appendix A, (and no extraordinary circumstances exist as defined in Paragraph 4-3), because there will be no individual or cumulative effects on the environment.

Additional supporting documentation Environmental Baseline Study, dated 6 November 1997.

c. This REC is for Replacing Entrance Doors, Project # J19000076J. Any changes, modifications or adjustments to the scope of work, contract or work plan, subsequent to the approval date on this document renders this REC null and void.

Prepared by: Richelle Neff Dated: 3 Dec 97
Richelle Neff
89TH RSC
Iowa Environmental Coordinator

Reviewed by: Steven A. Lawson Dated: 971209
STEVEN A. LAWSON
89TH RSC
Environmental Manager

Approved By: John A. Fenili Dated: 9 Dec 97
JOHN A. FENILI
Facility Management Officer

ENVIRONMENTAL BASELINE STUDY
OF ~~MIDDLETOWN~~ U.S. ARMY RESERVE TRAINING CENTER (USARTC)
REPLACING ENTRANCE DOORS, (PROJECT # J19000076J)

1. On 4 November 1997, an Environmental Baseline Study (EBS) was completed by the 89th Regional Support Command (RSC) on removing and replacing the aluminum entrance doors at north entrance of the ~~Middletown~~ USARTC (Appendix A, pg. 1-11).

2. The ~~Middletown~~, Iowa USARTC is located adjacent to the Iowa Army Ammunition Plant on the west edge of ~~Middletown~~, IA. The facility consists of the main building and an OMS. There are 2849 SF in the USARTC and 679 SF in the OMS. The facility is located on 11.0 acres.

3. There are no environmental concerns with the project.

4. Recommend that the entrance doors be replaced. If possible, the existing doors should be recycled. The Environmental Coordinator will assist the Facility Manager in finding a local recycler. If recycling is not possible, then the doors may be disposed of as solid waste.

5. This EBS is for Replacing Entrance Doors, Project # J19000076J. Any changes, modifications or adjustments to the scope of work, contract or work plan, subsequent to the approval date on this document renders this EBS null and void.

Prepared by: Richelle Neff DATE: 3 Dec 97
Richelle Neff
89TH RSC
Iowa Environmental Coordinator

Reviewed by: Steven G. Lawson DATE: 971209
STEVEN A. LAWSON
Environmental Manager
U.S. Army 89th Regional Support Command

Approved By: John A. Fenili DATE: 9 Dec 97
JOHN A. FENILI
Facility Management Officer

ENVIRONMENTAL BASELINE STUDY (EBS) INFORMATION CHECKLIST

SITE NAME: ~~Middletown~~ USARTC

SITE USE: U.S. Army Reserve Training Center

ADDRESS: Hwy 79 West, RR1
Middletown, IA 52638-9700

DATE: 6 November 1997

ENVIRONMENTAL:

ENDANGERED RESOURCES: The site use will be the same. No threatened or endangered resources will be affected.

CULTURAL RESOURCES: The building is a one-story brick building constructed in 1972. It has two maintenance bays. The facility is not eligible for inclusion on the National Register of Historic Places.

WETLANDS, FLOODPLAINS, AND WATERBODIES: The facility property is not located on a floodplain or near any wetlands or waterbodies. There will be no impact to wetlands, floodplains, or waterbodies.

UNEXPLODED ORDNANCE: The facility was constructed within the Iowa Army Ammunition Plant. However, no unexploded ordnance is believed to be located in or around the facility.

HAZARDOUS MATERIALS AND/OR WASTE SPILLS: Areas of past hazardous materials and/or waste spills were not observed at the facility.

ASBESTOS: There has not been an asbestos survey at the facility. No asbestos containing material is expected to be associated with the doors.

ATMOSPHERIC LEAD PARTICLES IN INDOOR FIRING RANGES: The facility has an indoor firing range. The used ammo fell into a metal container placed on the concrete floor. There is a filter in the ventilation system. The range has been closed since November 1995, and will be remediated for lead when funds become available.

ON SITE OF OLD LANDFILL: There is no evidence that the facility is built on or near a former landfill of any type.

NOISE: The noise associated with this project will be short-lived.

INDOOR AIR QUALITY/RADON: The facility was tested for radon and levels were under the EPA action level of 4.0 picocuries/liter.

PCBs/DEHP: Due to the age of the building, it is possible that the light fixtures in the facility contain PCBs or DEHP. However, this project will not affect any light fixtures.

LEAD BASED PAINT: Due to the age of the building, it is possible that the doors are painted with lead-based paint. The doors that are being removed must not be scraped or chipped. The Iowa Department of Natural Resources Solid Waste Section stated that the doors do not have to be tested for lead-based paint before recycling them or disposing them in a landfill.

UNDERGROUND STORAGE TANK: There are no underground storage tanks on site.

CLEAN AIR: The facility is not located in a non-attainment area. No sources of air emissions are expected to increase. The sources of air emissions are not subject to regulation under Iowa Title V Air Quality Regulations and therefore no air permits are required.

ODS PHASE-OUT: The project does not include work on any ODS equipment that may be located within the facility.

BACKFLOW PREVENTION: There are no backflow prevention devices on the water supply lines in the facility. The renovation will not involve work on the water supply lines.

STORMWATER: Based on Earth Tech's evaluation, processes performed at the facility are not industrial in nature and do not adversely affect the quality of storm water runoff from the site. The facility does not require a permit to discharge storm water to the local storm sewer system or to the Publicly Owned Treatment Works under Iowa Department of Natural Resources regulations for the issuance of permits under the National Pollutant Discharge Elimination System.

PERMITS REQUIRED: No permits are required for this project.

POLLUTION PREVENTION OPPORTUNITIES: There are several P2 opportunites associated with the OMS shop activities. The reduction or elimination of hazardous waste associated with solvent based parts washers is a major P2 opportunity. The following items if produced should be recyled: used anti-freeze, used oil filters, and used batteries. A system should be in place to track the use of hazardous materials at this facility. When ordering hazardous materials the use of a safe alternative should be considered. If no safe alternative is available only the minimum needed should be acquired.

ENERGY CONSERVATION CONTROLS: Currently plans are being made to upgrade all 89th facilities to the latest energy efficient standard. All potential areas will be surveyed for possible energy conservation controls. Potential areas include new lighting systems, HVAC controls, boiler repair/replacement and building envelope upgrade.

APPENDICES

APPENDIX A

TITLE: PROPERTY INSPECTION CHECKLIST, DRAWINGS, FORM 4283

PROPERTY INSPECTION CHECKLIST
FOR
ENVIRONMENTAL BASELINE STUDIES

(The proponent agency is DCSENGR)

Munin
970902
Mailed

LOCATION: USARTC, Burlington, IA FACILITY ID: IA019 PROJECT NO. J19000076J

PROJECT NAME: Replace Entrance Doors
PROPOSED ACTION: Remove and replace entrance doors at north entrance of USARTC

I. PROPERTY USE:

A. CHECK ALL THAT APPLY.

RESIDENTIAL	INDUSTRIAL	MIXED
AGRICULTURAL	COMMERCIAL	OTHER X

B. ADJACENT PROPERTY USE AND TOPOGRAPHIC RELATIONSHIP.

NORTH	SAME
SOUTH	SAME
EAST	SAME
WEST	SAME

C. ATTACH COPY OF INSTALLATION MAP SHOWING FOOTPRINT OF AREA UNDER CONSIDERATION.

II. SITE OWNERSHIP HISTORY AND USE:

1. CURRENT OWNER: U.S.Army Reserve
2. CURRENT LAND USE: USARTC and OMS
3. PREVIOUS OWNER(S): US Army Ammunition Plant
4. PREVIOUS LAND USE: Ammunition Manufacturing

III. PROPOSED FUTURE USE(S):

1. TYPE USE(S): Continued use.
2. USER POPULATION: No change.
3. ANY OBVIOUS USE RESTRICTIONS: None

IV. FEATURES / COMMENTS:

NUMBER AND TYPE OF BUILDINGS / STRUCTURES ON PROPERTY:

P0001	17140	USAR Training Center	2849 sf
P0002	21409	OMS	679 sf

11.0 acres
1476 sy MEP
679 sy POV parking

V. SITE INSPECTION:

A. ENVIRONMENTAL CONDITIONS OBSERVED (SHOW LOCATION ON FACILITY MAPS).

	YES	NO	N/A	REMARKS
1. SUSPICIOUS/UNUSUAL ODORS			X	
2. DISCOLORED SOIL			X	
3. DISTRESSED VEGETATION			X	
4. DIRT / DEBRIS MOUNDS			X	
5. GROUND DEPRESSIONS			X	
6. POL STAINING			X	
7. ASBESTOS CONTAINING MATERIALS			X	

	YES	NO	N/A	REMARKS
8. ABOVE GROUND STORAGE TANK	___	___	X	
LOCATION(S):				
SIZE / PRODUCT:				
9. UNDERGROUND STORAGE TANK	___	___	X	
LOCATION(S):				
SIZE / PRODUCT:				
10. LANFILLS / WASTE PILES	___	___	X	
11. IMPOUNDMENTS / LAGOONS	___	___	X	
12. INJECTION WELLS	___	___	X	
13. DRUM / CONTAINER STORAGE	___	___	X	
PRODUCT:				
14. INCINERATOR	___	___	X	
15. ELECTRICAL TRANSFORMERS	___	___	X	
16. STANDPIPES / VENT PIPES	___	___	X	
17. DISCHARGES TO SURFACE WATERS / DITCHES	___	___	X	
18.POWER OR PIPE LINES	___	___	X	
19. MINING / LOGGING ACTIVITY	___	___	X	
20. GROUNDWATER MONITORING WELLS	___	___	X	
21. OTHERS:				

B. CULTURAL RESOURCES: (HISTORIC PROPERTIES / ARCHAEOLOGY) No

C. ENDANGERED / THREATENED SPECIES: (STATE / FEDERAL LIST) No

D. HAS AN EBS, EA, OR EIS BEEN PREVIOUSLY COMPLETED?
TITLE: Replace Windows in OMS at USARTC, Middletown, IA
LOCATION: Middletown, IA
SOURCE: 89th RSC
DATE: 31 Oct 96

VI. MAPS

VII. OTHER INFORMATION

VIII. RECOMENDATIONS:

IX. PREPARED BY: Richard Neff
TITLE: Environmental Coordinator
DATE: 6 Nov 1997

APPROVED BY: Steven C. [illegible]
TITLE: EM
DATE: 971209

SPECIFICATIONS & SKETCHES
(FOR FINAL REVIEW)

Replace Entrance Doors

U.S. Army Reserve Center
Burlington, IA

April 1997

US Army Corps
of Engineers
Omaha District

OMAHA DISTRICT

APPENDIX A, pg 3

ZERO ACCIDENTS

SPECIFICATIONS FOR CONSTRUCTION OF

Replace Entrance Doors
U.S. Army Reserve Center
Burlington, IA

TABLE OF CONTENTS

DIVISION 1 GENERAL REQUIREMENTS

00800 Special Contract Requirements

SKETCHES: A0.1, A1.1 and A1.2

APPENDIX A, pg 4

ZERO ACCIDENTS

SECTION 00800
SPECIAL CONTRACT REQUIREMENTS

INDEX

1. Scope of Work
2. Commencement, Prosecution, and Completion of Work
3. Contract Drawing and Specifications
4. Submittals
5. Contractor Quality Control (CQC)
6. Guarantee
7. Accident Prevention
8. Protection of Existing Facilities and Works
9. Contract Drawings And Specifications
10. Payment
11. Availability Of Utility Services
12. Profit

1. SCOPE OF WORK: Remove and replace doors and frames at the north entrance of the U.S. Army Reserve Center, Burlington, IA. (See sketches for details).

2. COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK. The Contractor shall complete the entire work ready for use not later than the time specified in the Request For Quotes (RFP). The time stated for completion shall include final cleanup of the premises.

3. CONTRACT DRAWING AND SPECIFICATIONS.

3.1. Sets Furnished. Two (2) additional sets of contract documents will be furnished the Contractor without charge upon request.

4. SUBMITTALS. None

5. CONTRACTOR QUALITY CONTROL (CQC).

5.1. Responsibility of the Contractor. Except for isolated tests or other items of work specified to be performed by the Government, the quality of all work shall be the responsibility of the Contractor. Sufficient inspections and tests of all items of work, including that of subcontractors, to ensure conformance to applicable specifications and drawings with respect to the quality of materials, workmanship, construction, finish, functional performance, and identification shall be performed on a continuing basis.

6. GUARANTEE. The equipment and supplies to be furnished under this contract shall be guaranteed for a period of one (1) year from the date of acceptance thereof, either for beneficial use or final acceptance, whichever is earlier, against defective materials, design, and workmanship. Upon receipt of notice from the Government of failure of any of the guaranteed equipment during the guarantee period, new replacement parts shall be furnished and installed promptly

APPENDIX A, pg 5

by the Contractor at no additional cost to the Government. The Contractor shall also obtain and deliver to the Contracting Officer any warranties of equipment or supplies which the subcontractors, manufacturers, or suppliers would give normal commercial practice.

7. ACCIDENT PREVENTION: In accordance with EM 385-1-1, Safety and Health Requirements Manual, the Contractor shall provide for protecting of the lives and health of employees and other persons; preventing of damage to property; and avoiding work interruptions.

8. PROTECTION OF EXISTING FACILITIES AND WORKS: The Contractor shall be responsible for the protection of work area from damage and upon completion of the work shall leave existing works in a condition equal to that which existed when the work started.

9. CONTRACT DRAWINGS AND SPECIFICATIONS.

9.1. **NOTIFICATION OF DISCREPANCIES.** The Contractor shall check all drawings furnished him immediately upon their receipt and shall promptly notify the Contracting Officer of any discrepancies. Dimensions marked on drawings shall be followed in lieu of scale measurements. Enlarged plans and details shall govern where the same work is shown at smaller scales. The Contractor shall compare all drawings and verify the figures before laying out the work and will be responsible for any errors which might have been avoided thereby.

9.2. **OMISSIONS.** Omissions from the drawings or specifications or the misdescription of details of work which are manifestly necessary to carry out the intent of the drawings and specifications, or which are customarily performed, shall not relieve the Contractor from performing such omitted or misdescribed details of the work but they shall be performed as if fully and correctly set forth and described in the drawings and specifications.

10. PAYMENT.

10.1. **PROMPT PAYMENT ACT.** Pay requests authorized in CONTRACT CLAUSES clause: "Payments Under Fixed-Price Construction Contracts", will be paid pursuant to the clause, "Prompt Payment for Construction Contracts". Pay requests will be submitted on ENG Form 93 and 93a, "Payment Estimate-Contract Performance" and "Continuation". All information and substantiation required by the identified contract clauses will be submitted with the ENG Form 93, and the required certification will be included on the last page of the ENG Form 93a, signed by an authorized contractor official and dated when signed. The designated billing office is the Office of the Area Engineer.

10.2. **PAYMENTS FOR MODIFICATIONS.** Payments may be made for cost bearing change orders within the scope of the contract only to the extent funds are authorized in the order on a two-part modification. Contractor pricing proposed must be submitted at the earliest possible time after the change order is issued, or at a specific time as directed by the Contracting Officer. At the discretion of the Contracting Officer, any and all payments may be withheld on the modification until the Contractor has submitted a qualifying price proposal, in as much detail as required by the Contracting Officer, and the final price has been agreed.

11. **AVAILABILITY OF UTILITY SERVICES**. All reasonably required amounts of domestic water and electricity will be made available to the Contractor by the Government from existing system outlets and supplies.

12. **PROFIT.**

12.1. Weighted guidelines method of determining profit shall be used on any equitable adjustment change order or modification issued under this contract. The profit factors shall be as follows:

Factor	Rate	Weight	Value
Degree of Risk	20		
Relative difficulty of work	15		
Size of Job	15		
Period of performance	15		
Contractor's investment	5		
Assistance by Government	5		
Subcontracting	25		
	100		

12.2. Based on the circumstances of each procurement action, each of the above factors shall be weighted from .03 to .12 as indicated below. The value shall be obtained by multiplying the rate by the weight. The value column when totalled indicates the fair and reasonable profit percentage under the circumstances of the particular procurement.

12.2.1. **Degree of Risk**. Where the work involves no risk or the degree of risk is very small, the weighting should be .03; as the degree of risk increases, the weighting should be increased up to a maximum of .12. Lump sum items will have, generally, a higher weighted value than the unit price items for which quantities are provided. Other things to consider: the portion of the work to be done by subcontractors, nature of work, where work is to be performed, reasonableness of negotiated costs, amount of labor included in costs, and whether the negotiation is before or after performance of work.

12.2.2. **Relative Difficulty of Work**. If the work is most difficult and complex, the weighting should be .12 and should be proportionately reduced to .03 on the simplest of jobs. This factor is tied in to some extent with the degree of risk. Some things to consider: the nature of the work, by whom it is to be done, where, and what is the time schedule.

12.2.3. **Size of Job**. All work not in excess of $100,000 shall be weighted at .12. Work estimated between $100,000 and $5,000,000 shall be proportionately weighted from .12 to .05.

12.2.4. **Periods of Performance**. Jobs in excess of 24 months are to be weighted at .12. Jobs of lesser duration are to be proportionately weighted to a minimum of .03 for jobs not to exceed 30 days. No weight where additional time not required.

12.2.5. **Contractor's Investment**. To be weighted from .03 to .12 on the basis of below average, average, and above average. Things to consider: amount of subcontracting, mobilization payment item, Government furnished property, equipment and facilities, and expediting assistance.

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12.2.6. **Assistance by Government.** To be weighted from .12 to .03 on the basis of average to above average. Things to consider: use of Government-owned property, equipment and facilities, and expediting assistance.

12.2.7. **Subcontracting.** To be weighted inversely proportional to the amount of subcontracting. Where 80 percent or more of the work is to be subcontracted, the weighting is to be .03 and such weighting proportionately increased to .12 where all the work is performed by the Contractor's own forces.

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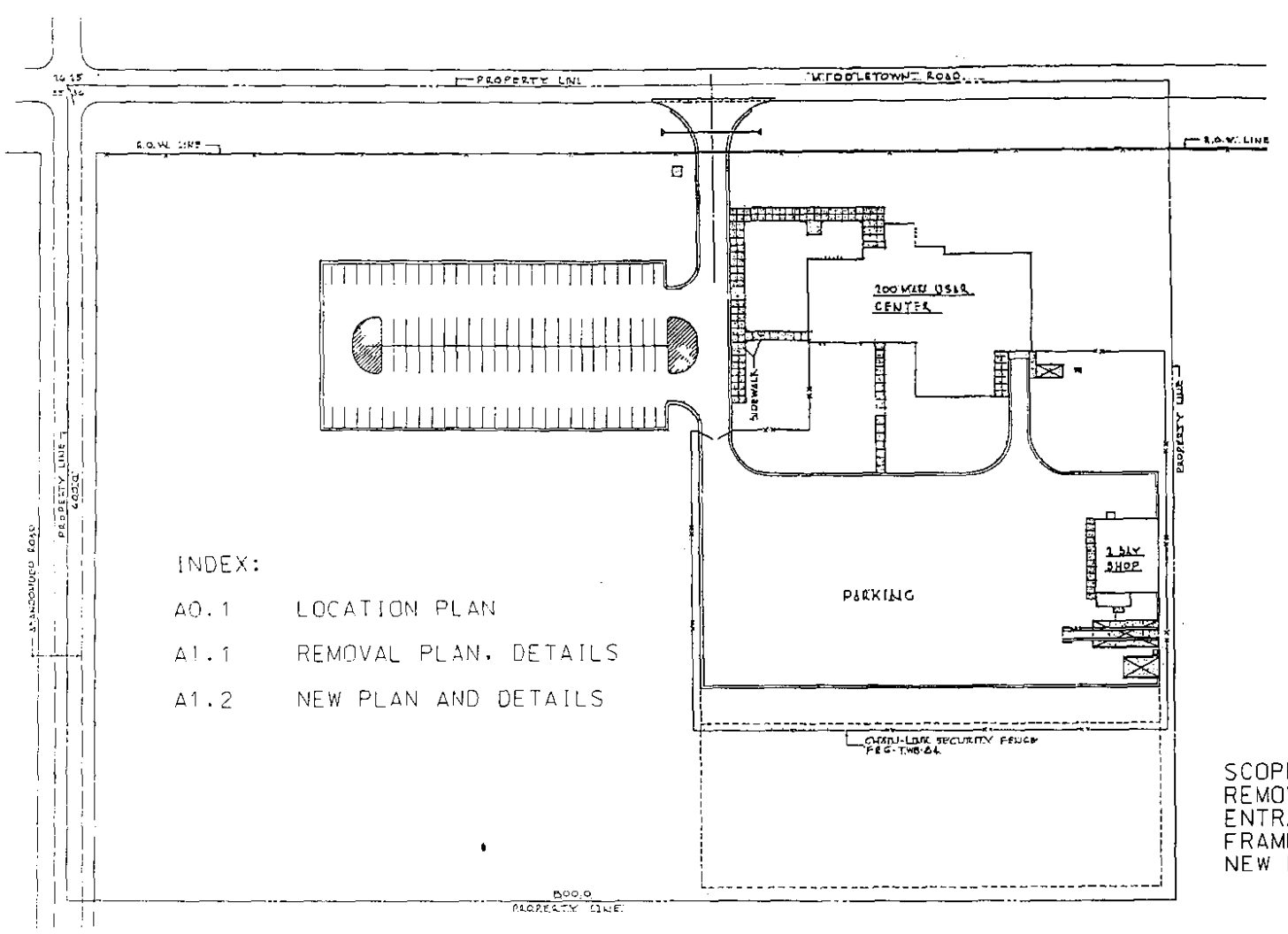


INDEX:

A0.1	LOCATION PLAN
A1.1	REMOVAL PLAN, DETAILS
A1.2	NEW PLAN AND DETAILS

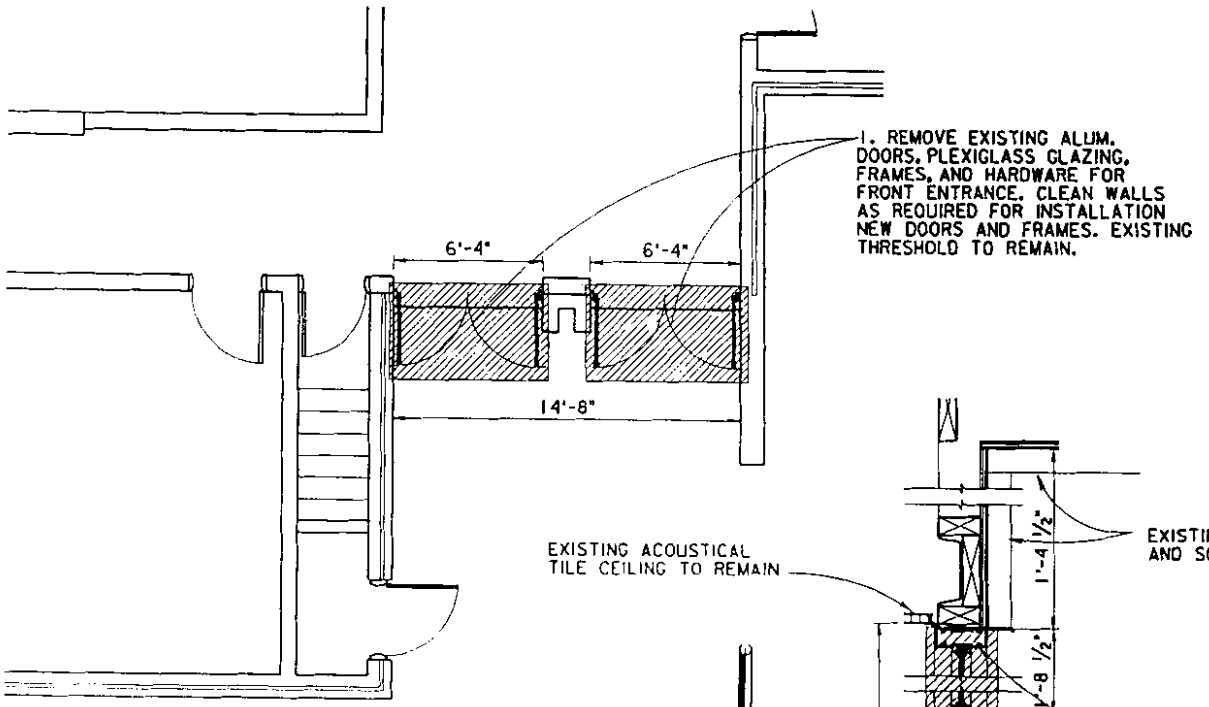
SCOPE:
REMOVE EXISTING ALUM. ENTRANCE DOORS AND FRAMES. REPLACE WITH NEW DOORS AND FRAMES.

NOT TO SCALE

Sheet No. A0.1	Computer File: BU03A102.DGN	Spec. No. DACX	U S ARMY ENGINEER DISTRICT CORPS OF ENGINEERS OMAHA, NEBRASKA	BURLINGTON IOWA	Submitted by:	Designed by: M.D.M.	Checked by: G.F.B.
	Date: X	Contract No. DACX		ARMY RESERVE REPLACE ENTRANCE DOORS LOCATION PLAN	Chief Arch. Section	Reviewed by: G.F.B.	Drawn by: L.B.C.
	Drawing Code: X X						

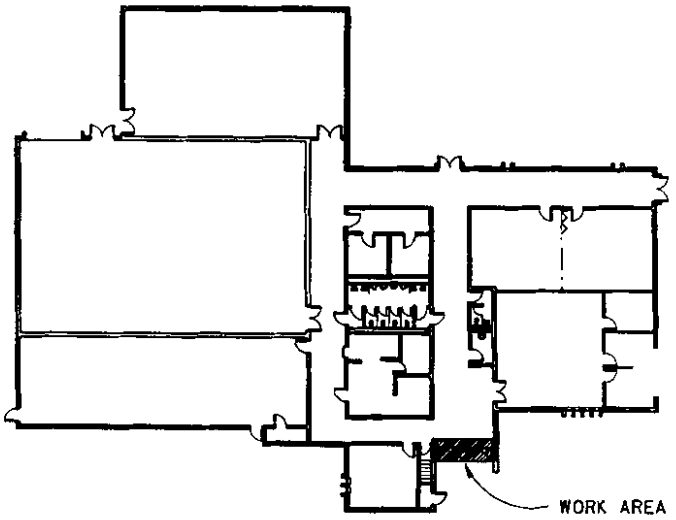
BU03A100.DGN & BU03A100.RLE

APPENDIX A, pg 10



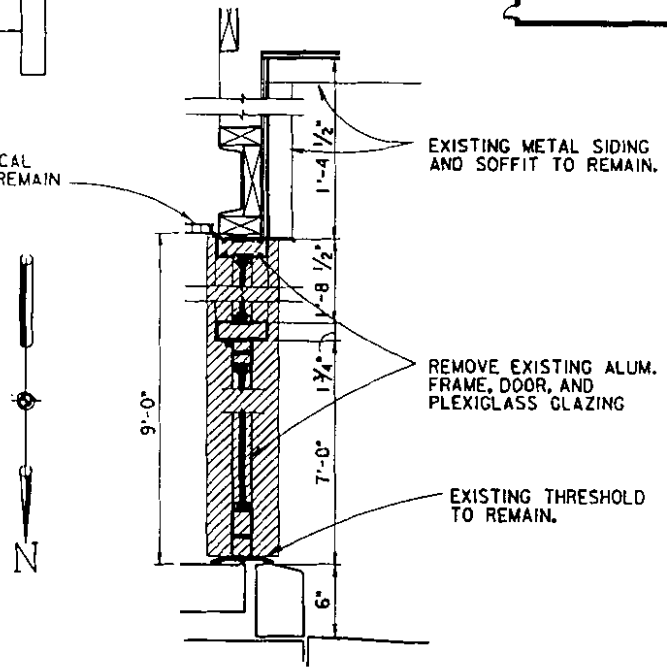
FLOOR PLAN

SCALE: $\frac{1}{8}$ INCH = 1 FOOT



KEY PLAN

N.T.S.



WALL SECTION

SCALE: $\frac{3}{4}$ INCH = 1 FOOT

Sheet No. A1.1	Computer File: SF03-BU03A101	Spec. No. DACX	U S ARMY ENGINEER DISTRICT CORPS OF ENGINEERS OMAHA, NEBRASKA	BURLINGTON IOWA ARMY RESERVE REPLACE ENTRANCE DOORS REMOVAL PLAN, DETAILS	Submitted by: D.F. Bergers Chief ARCH. Section	Designed by: M.D.M. / Checked by: G.F.B.
	Date: X	Contract No. DACX				Reviewed by: G.F.B. / Drawn by: M.D.M.
	Drawing Code: X X					

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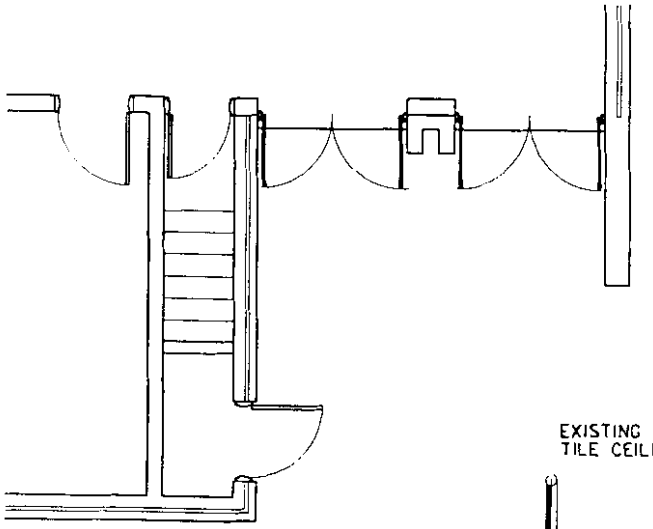
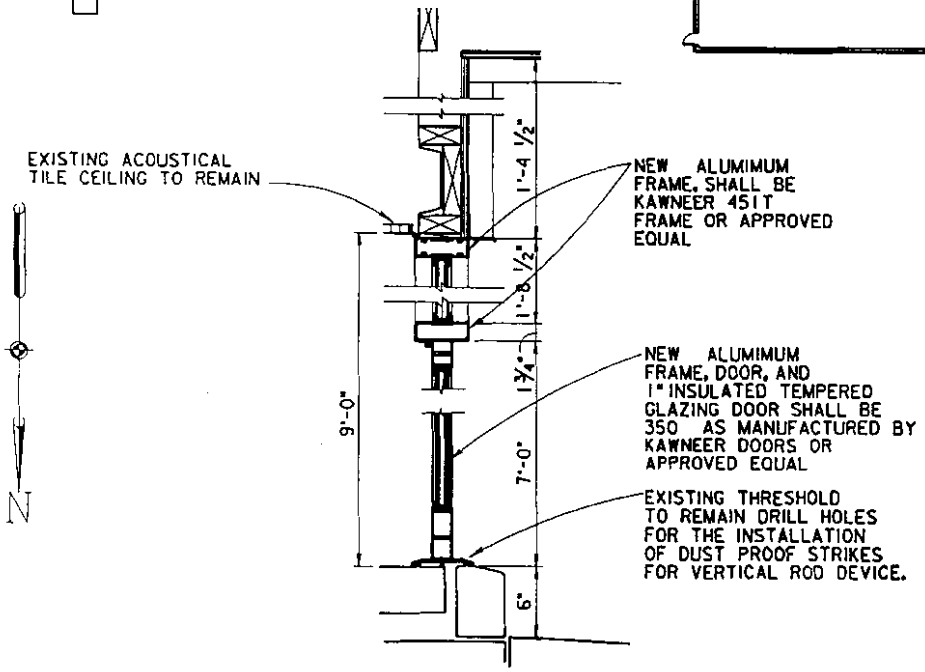


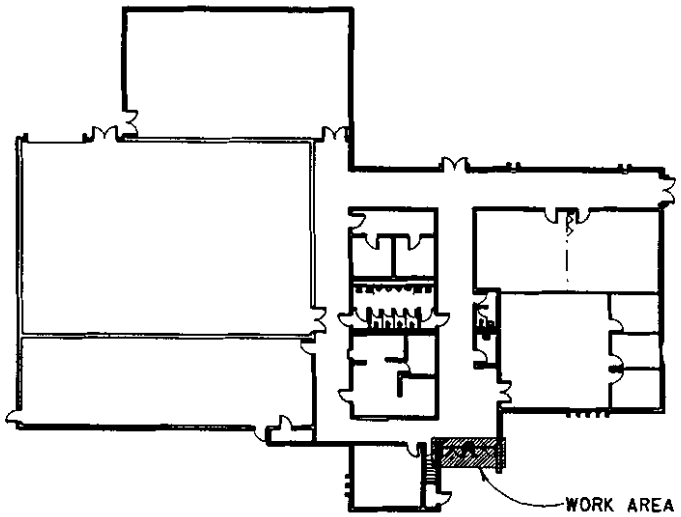
FLOOR PLAN

SCALE: $\frac{1}{8}$ INCH = 1FOOT



WALL SECTION

SCALE: $\frac{3}{4}$ INCH = 1FOOT



KEY PLAN

DOOR HARDWARE SHALL BE AS FOLLOWS:

2 EACH CONCEALED VERTICAL RODS WITH THUMB PIECE ON THE EXTERIOR

2 EACH LOCKSETS

3 PAIR HINGES

1 SET OF WEATHERSTRIPPING

Sheet No. A1.2	Computer File: SF03-BU03A102	Spec. No. DACX	U S ARMY ENGINEER DISTRICT CORPS OF ENGINEERS OMAHA, NEBRASKA	BURLINGTON IOWA ARMY RESERVE REPLACE ENTRANCE DOORS NEW PLAN AND DETAILS	Submitted by: S.F. Bergers Chief ARCH. Section	Designed by: M.D.M. / Checked by: G.F.B.
	Date: X	Contract No. DACX				Reviewed by: G.F.B. / Drawn by: M.D.M.
	Drawing Code: X X					

DEPARTMENT OF THE ARMY
HEADQUARTERS, 89TH REGIONAL SUPPORT COMMAND
2800 NORTH WOODLAWN
WICHITA, KANSAS 67220-2799

REPLY TO
ATTENTION OF

RECORD OF ENVIRONMENTAL CONSIDERATION

TO: 89th RSC Engineering/Planning Section

FROM: 89th RSC Engineering/Environmental Section

PROJECT TITLE: (Project # J19020019J) Repair Roof (Facility ID # IA019)

DESCRIPTION OF PROPOSED ACTION: Replace roof and roof insulation with fully adhered roof membrane. The roof drains, gutters, and downspouts will be repaired as necessary.

ANTICIPATED DATE AND/OR DURATION OF PROPOSED ACTION (Month/Year): July 1999.

REASON FOR USING RECORD OF ENVIRONMENTAL CONSIDERATION:

a. Adequately covered in the existing EA __ EIS __ entitled:

_____ and dated _____.

OR,

b. Qualifies for categorical exclusion A-5, AR 200-2, Appendix A, (and no extraordinary circumstances exist as defined in Paragraph 4-3), because it is a routine repair and maintenance of equipment.

Additional supporting documentation EBS, Repair Roof, Burlington USARTC dated 10 June 1999.

c. This REC is for Repairing the Roof on the Burlington, Iowa USARTC, Project # J19020019J. Any changes, modifications, or adjustments to the scope of work, contract or work plan, subsequent to the approval date on this document renders this REC null and void.

Prepared by: Kate Ellison Dated: 6-10-99
Kate Ellison, J.M. Waller Associates, Inc.
J.M. Waller Associates, Inc., Environmental Coordinator
Supporting the 89th Regional Support Command

Reviewed by: John A Fenili Dated: 1 July 99
JOHN A. FENILI
Facility Management Officer

Approved by: John A Fenili Dated: 1 July 99
JOHN A. FENILI
Facility Management Officer

ENVIRONMENTAL BASELINE STUDY
REPAIR ROOF, BURLINGTON MEMORIAL USARTC,
BURLINGTON, IOWA
Project # J19020019J, Facility ID#IA019
10 June 1999

1. On 10 June 1999, an Environmental Baseline Study (EBS) was completed by the 89th Regional Support Command (RSC) for the repair of the roof at the Burlington Memorial USARTC in Burlington, Iowa. The project will involve replacing the roof and roof insulation with fully adhered single-ply roof membrane. The roof drains, gutters, and downspouts will be repaired as necessary (Appendix A, pg. 1-2).

2. The USARTC is located at RR #1 in Middletown, Iowa. The USARTC contains approximately 2849 square feet and the OMS contains 679 square feet; the facility was constructed in 1972.

3. An environmental concern with this project is the asbestos containing materials (ACM) on the roof. The people conducting the roof repair must be informed of the ACM on the roof. All removal and disposal of ACM must be done in accordance with National Emissions and Hazardous Air Pollutants (NESHAP) Standards.

4. Recommendations: Recommend that the roof be repaired provided that the contractor is trained and certified to handle and dispose of asbestos containing materials; and all removal and disposal is conducted in accordance with the law.

5. This EBS is for Project # J19020019J, Repair of the roof at the Burlington Memorial USARTC, Burlington, IA. Any changes modifications or adjustments to the scope of work, contract or work plan, subsequent to the approval date on this document renders this EBS null and void.

Prepared by: Kate Ellison Dated: 6-10-99
Kate Ellison, J.M. Waller Associates, Inc.
Supporting the 89th RSC
Nebraska/Kansas Environmental Coordinator

Reviewed by: John A Fenili Dated: 1 July 99
JOHN A. FENILI
Facility Management Officer

Approved by: John A Fenili Dated: 1 July 99
JOHN A. FENILI
Facility Management Officer

ENVIRONMENTAL BASELINE STUDY (EBS) INFORMATION CHECKLIST

SITE NAME: Burlington Memorial USARTC

SITE USE: U.S. Army Reserve Training Center

PROJECT: Repair roof

ADDRESS: RR #1, Box 130
Middletown, IA52368-9700

DATE: 10 June 1999

ENVIRONMENTAL:

ENDANGERED RESOURCES: No federal or state threatened or endangered species are known to occur at the facility. This project will not have an affect on any natural resources located at the facility.

CULTURAL RESOURCES: The building consists of a one-story brick building constructed in 1972. The building does not appear to be eligible for inclusion on the National Register of Historic Places.

WETLANDS, FLOODPLAINS, AND WATERBODIES: The facility is not located on a floodplain or near any wetlands or water bodies. Therefore, there is no threat to any wetlands, floodplains, or water bodies.

UNEXPLODED ORDNANCE: The facility is within the Iowa Army Ammunition Plant (IAAP). However, no unexploded ordnance is believed to be located in or around the facility.

HAZARDOUS MATERIALS AND/OR WASTE SPILLS: Areas of past spills were not observed or past spills documented.

ASBESTOS: A complete asbestos survey has not been conducted for the facility. The roof has been tested for asbestos and it contains about 10 percent chrysotile. ACM will be removed by workers who have had asbestos training and who wear the appropriate personal protective equipment in accordance with 29 CFR 1910.1001. Questions or information requests pertaining to asbestos may be directed to Mr. Marion Burnside, Iowa Department of Natural Resources, Air Quality Division (515-281-8443). All ACM must be disposed of in accordance with the law.

ATMOSPHERIC LEAD PARTICLES IN INDOOR FIRING RANGES: There is a firing range located in the main building of the facility. The firing range has been closed until it can be cleaned and converted into a storage area. This project will not involve work in the firing range.

ON SITE OF OLD LANDFILL: There is no evidence to suggest that the area was built on or near a former landfill of any type.

NOISE: The noise levels at this facility are insignificant. The facility is located just outside of any residential areas and are located on IAAP land. There will be no effect on noise from the project.

INDOOR AIR QUALITY/RADON: The facility was tested for radon and the results did not exceed the EPA action level of 4.0 picocuries/liter.

PCBs: It is possible that the facility has PCB ballasts in the light fixtures. A complete inventory has not been conducted on PCB containing materials. However, this project will not affect any light fixtures.

LEAD-BASED PAINT: Because of the age of the building, it is possible that there is lead-based paint on its painted surfaces. However, this project will not involve disturbing painted surfaces.

UNDERGROUND STORAGE TANKS: No underground storage tanks exist on site.

CLEAN AIR: The facility is not located in a non-attainment area.

OZONE DEPLETING CHEMICALS: There is no inventory of ozone depleting chemical (ODC) equipment in the facility. The project will not involved work on any ODC equipment in the facility.

BACKFLOW PREVENTION: Not applicable for this project.

STORM WATER: There are no storm water permits associated with this facility. This project will not impact storm water nor require a storm water permit.

PERMITS REQUIRED: Permits regarding the removal and disposal of the asbestos containing materials must be obtained by the persons conducting the work.

POLLUTION PREVENTION OPPORTUNITIES: It is recommended that Alto Fluorescent lamps or "green ends" be used in the light fixtures in order to reduce the amount of universal waste entering the solid waste stream.

ENERGY CONSERVATION CONTROLS: Currently, plans are being made to upgrade all 89th RSC facilities to the latest energy efficient standard. All potential areas will be surveyed for possible energy conservation controls. Potential areas include new lighting systems, HVAC controls, boiler repair/replacement and building envelope upgrade.

LIST OF APPENDICES

APPENDIX A: PROPERTY INSPECTION CHECKLIST

ej192019 WRIGHT 28 JAN 99

PROPERTY INSPECTION CHECKLIST FOR ENVIRONMENTAL BASELINE STUDIES

(The proponent agency is DCSENGR)

LOCATION: Burlington Memorial USARTC, Burlington, IA FACILITY ID: IA019 PROJECT NO. J19020019J

PROJECT NAME: Repair Roof
PROPOSED ACTION: Replace roof and roof insulation on training center with fully adhered single-ply membrane roof. Repair roof drains, gutters and downspouts as necessary.

I. PROPERTY USE:
A. CHECK ALL THAT APPLY.

RESIDENTIAL	INDUSTRIAL	MIXED
AGRICULTURAL	COMMERCIAL	OTHER X

B. ADJACENT PROPERTY USE AND TOPOGRAPHIC RELATIONSHIP.

NORTH	SAME
SOUTH	SAME
EAST	SAME
WEST	SAME

C. ATTACH COPY OF INSTALLATION MAP SHOWING FOOTPRINT OF AREA UNDER CONSIDERATION.

II. SITE OWNERSHIP HISTORY AND USE:

1. CURRENT OWNER: U.S.Army Reserve
2. CURRENT LAND USE: USARTC and OMS
3. PREVIOUS OWNER(S): US Army Ammunition Plant
4. PREVIOUS LAND USE: Ammunition Manufacturing

III. PROPOSED FUTURE USE(S):
1. TYPE USE(S): Continued use.
2. USER POPULATION: No change.
3. ANY OBVIOUS USE RESTRICTIONS: None

IV. FEATURES / COMMENTS:
NUMBER AND TYPE OF BUILDINGS / STRUCTURES ON PROPERTY:

P0001	17140	USAR Training Center	2849 sf
P0002	21409	OMS	679 sf

11.0 acres; 1476 sy MEP; 679 sy POV parking

V. SITE INSPECTION:
A. ENVIRONMENTAL CONDITIONS OBSERVED (SHOW LOCATION ON FACILITY MAPS).

	YES	NO	N/A	REMARKS
1. SUSPICIOUS/UNUSUAL ODORS		X		
2. DISCOLORED SOIL		X		
3. DISTRESSED VEGETATION		X		
4. DIRT / DEBRIS MOUNDS		X		
5. GROUND DEPRESSIONS		X		
6. POL STAINING		X		
7. ASBESTOS CONTAINING MATERIALS	X			

mdle71r WRIGHT 28 JAN 99

	YES	NO	N/A	REMARKS
8. ABOVE GROUND STORAGE TANK			X	
LOCATION(S):				
SIZE / PRODUCT:				
9. UNDERGROUND STORAGE TANK			X	
LOCATION(S):				
SIZE / PRODUCT:				
10. LANFILLS / WASTE PILES		X		
11. IMPOUNDMENTS / LAGOONS		X		
12. INJECTION WELLS		X		
13. DRUM / CONTAINER STORAGE			X	
PRODUCT:				
14. INCINERATOR		X		
15. ELECTRICAL TRANSFORMERS			X	
16. STANDPIPES / VENT PIPES		X		
17. DISCHARGES TO SURFACE WATERS / DITCHES		X		
18. POWER OR PIPE LINES			X	
19. MINING / LOGGING ACTIVITY		X		
20. GROUNDWATER MONITORING WELLS			X	
21. OTHERS:				

B. CULTURAL RESOURCES: (HISTORIC PROPERTIES / ARCHAEOLOGY)
N/A

C. ENDANGERED / THREATENED SPECIES: (STATE / FEDERAL LIST) N/A

D. HAS AN EBS, EA, OR EIS BEEN PREVIOUSLY COMPLETED? yes
TITLE: PAS/REC, Replace heat exchanger, USARTC, Middletown, IA, Project #19015016J.
LOCATION: 89th RSC
SOURCE: Maria Lehner, for 89th RSC
DATE: 30 Dec 96

VI. MAPS

VII. OTHER INFORMATION

VIII. RECOMENDATIONS:

IX. PREPARED BY: Kate Ellison, J.M. Waller Assoc.
TITLE: Environmental Coordinator
DATE: 10 Jun 99

APPROVED BY:
TITLE:
DATE:

Appendix A, pg. 2

COVER SHEET ACTION FORM

For use of this form, see 89TH RSC PAM 25-1; the proponent agency is ODCSIM

SUBJECT: Environmental Baseline Study For USARTC - Middletown, IA	CMD GP CONTROL NO.
FROM: FREDDIE L. MELTON	DATE RECEIVED IN CMD GP:
ACTION REQUIRED APPROVAL OF _____ ☐ INFORMATION ONLY _____ ☐ SIGNATURE OF _____ ☐	SUSPENSE DATE DATE 6 Jul 98

CXO

CofS

CSM

DCG

CG

SUMMARY

1. PURPOSE: To assess any potential environmental impacts from removing the wash/grease rack at the USARTC in Middleton, IA.

2. DISCUSSION: All construction/renovation projects must receive environmental review prior to initiation of project. This will include the removal of above ground concrete and metal structures.

3. RECOMMENDATION: JAG review, comment and/or approve EBS.

CONCURRENCE/NONCONCURRENCE

OFFICE	NAME	DATE
SJA	LTC RUPPER	10 Jul 98

ACTION BY APPROVING OFFICIAL

APPROVED ____ DISAPPROVED ____

SEE ME ____ NOTE CHANGES ____

CONSIDERATION OF NONCONCURRENCE IS AT TAB _____

ACTION OFFICER (Name, Phone No.)	STAFF CHIEF APPROVAL
FREDDIE L. MELTON, EXT 489	for JOHN A. FENILI, EXT 223

89TH RSC FORM 1 Oct 96 **1-1**

Previous Editions Are Obsolete

DEPARTMENT OF THE ARMY
HEADQUARTERS, UNITED STATES ARMY 89TH REGIONAL SUPPORT COMMAND
2600 NORTH WOODLAWN STREET
WICHITA, KANSAS 67220-2799

REPLY TO
ATTENTION OF

RECORD OF ENVIRONMENTAL CONSIDERATION

TO: 89th RSC Engineering/Planning Section

FROM: 89th RSC Engineering/Environmental Section

PROJECT TITLE: Remove Wash/grease rack , U.S. Army Reserve Training Center, Middletown, IA. FAC ID: IA019

DESCRIPTION OF PROPOSED ACTION: Removal of all of the above ground structures and oil water separator (concrete). This replaces the 25 Jun 98 Record of Environmental Consideration (REC) for removal of only above ground structures.

ANTICIPATED DATE AND/OR DURATION OF PROPOSED ACTION:

June - Aug 1998

REASON FOR USING RECORD OF ENVIRONMENTAL CONSIDERATION: (choose one)

a. Adequately cover in the existing EA _____ EIS _____ entitled: _____ and dated _____.

OR,

b. Qualifies for categorical exclusion, A-25 AR 200-2, Appendix A, (and no extraordinary circumstance exist and defined in Paragraph 4-2), because this is removal of an uncontaminated structure for removal off site.

Additional supporting documentation Environmental Baseline Study, Remove Wash/Grease Rack, USARTC, Middletown, IA dated 29 June 1998 and the Supplemental Review dated 31 July 1998.

c. This REC is to Remove Wash/Grease Rack and OWS, USARTC, Middletown, IA. Any changes, modifications or adjustments to the scope of work, contract or work plan, subsequent to the approval date on this document renders this REC null and void.

Prepared By: Maria Lehner Date: 31 Jul 98
MARIA LEHNER
Environmental Specialist
Bregman & Co., Inc., For the 89TH RSC

Reviewed By: Date: 3 Aug 98
FREDDIE L. MELTON
Supervising Environmental Specialist
89TH RSC

Approved By: Date: 3 Aug 98
for JOHN A. FENILI
Facility Management Officer

PROPERTY INSPECTION CHECKLIST FOR ENVIRONMENTAL BASELINE STUDIES

(The proponent agency is DCSENGR)

LOCATION: USARTC, Burlington, IA FACILITY ID: IA019 PROJECT NO. _____

PROJECT NAME: Remove Wash/Grease Rack
PROPOSED ACTION: Dismantle above ground structures associated with wash/grease rack.

I. PROPERTY USE:

A. CHECK ALL THAT APPLY.

RESIDENTIAL	INDUSTRIAL	MIXED
AGRICULTURAL	COMMERCIAL	OTHER X

B. ADJACENT PROPERTY USE AND TOPOGRAPHIC RELATIONSHIP.

NORTH	SAME
SOUTH	SAME
EAST	SAME
WEST	SAME

C. ATTACH COPY OF INSTALLATION MAP SHOWING FOOTPRINT OF AREA UNDER CONSIDERATION.

II. SITE OWNERSHIP HISTORY AND USE:

1. CURRENT OWNER: U.S.Army Reserve
2. CURRENT LAND USE: USARTC and OMS
3. PREVIOUS OWNER(S): US Army Ammunition Plant
4. PREVIOUS LAND USE: Ammunition Manufacturing

III. PROPOSED FUTURE USE(S):

1. TYPE USE(S): Continued use.
2. USER POPULATION: No change.
3. ANY OBVIOUS USE RESTRICTIONS: None

IV. FEATURES / COMMENTS:

NUMBER AND TYPE OF BUILDINGS / STRUCTURES ON PROPERTY:

P0001	17140	USAR Training Center	2849 sf
P0002	21409	OMS	679 sf

11.0 acres
1476 sy MEP
679 sy POV parking

V. SITE INSPECTION:

A. ENVIRONMENTAL CONDITIONS OBSERVED (SHOW LOCATION ON FACILITY MAPS).

	YES	NO	N/A	REMARKS
1. SUSPICIOUS/UNUSUAL ODORS	___	X	___	
2. DISCOLORED SOIL	___	X	___	
3. DISTRESSED VEGETATION	___	X	___	
4. DIRT / DEBRIS MOUNDS	___	X	___	
5. GROUND DEPRESSIONS	___	X	___	
6. POL STAINING	___	X	___	
7. ASBESTOS CONTAINING MATERIALS	___	X	___	Suspect that none is associated with Grease Rack.

	YES	NO	N/A	REMARKS
8. ABOVE GROUND STORAGE TANK		X		
LOCATION(S):				
SIZE / PRODUCT:				
9. UNDERGROUND STORAGE TANK		X		
LOCATION(S):				
SIZE / PRODUCT:				
10. LANFILLS / WASTE PILES		X		
11. IMPOUNDMENTS / LAGOONS		X		
12. INJECTION WELLS		X		
13. DRUM / CONTAINER STORAGE	X			
PRODUCT: POLs, USED OIL, USED OIL FILTERS, USED ANTIFREEZE				
14. INCINERATOR		X		
15. ELECTRICAL TRANSFORMERS	X			
16. STANDPIPES / VENT PIPES		X		
17. DISCHARGES TO SURFACE WATERS / DITCHES		X		
18. POWER OR PIPE LINES		X		
19. MINING / LOGGING ACTIVITY		X		
20. GROUNDWATER MONITORING WELLS		X		
21. OTHERS:				

B. CULTURAL RESOURCES: (HISTORIC PROPERTIES / ARCHAEOLOGY)
The facility was built in 1972. During a previous EBS, Iowa State Historic Society contacted on Oct 1996 regarding historical significance. They said there was none. It is not eligible for National Register at this time. Will only be removing above ground structures, no disturbance to land.

C. ENDANGERED / THREATENED SPECIES: (STATE / FEDERAL LIST)
There has never been a survey. Unlikely that any T&E species exist there. Greaserack is located inside MEP next to OMS. If any T&E in area, project should not affect anyway.

D. HAS AN EBS, EA, OR EIS BEEN PREVIOUSLY COMPLETED?
TITLE: Replace Heat Exchanger
LOCATION: USARTC Middletown, IA
SOURCE: 89th RSC
DATE: 30 Dec 96

VI. MAPS

VII. OTHER INFORMATION

VIII. RECOMENDATIONS: Recommend that all above ground structures associated with the Wash/Grease Rack be removed.

IX. PREPARED BY: Maria Lehner
TITLE: Environmental Specialist
DATE: 3 June 1998

APPROVED BY:
TITLE:
DATE:

ENVIRONMENTAL BASELINE STUDY - SUPPLEMENTAL REVIEW
TO REMOVAL OF WASH/GREASE RACK
USARTC - MIDDLETOWN, IA

1. This is a supplemental review for the Environmental Baseline Study (EBS) for the Removal of the Wash/Grease Rack at the U.S. Army Reserve Training Center, Middletown, IA. At the time of the EBS, the drain with an oil/water separator (OWS) associated with the wash/grease rack was not scheduled to be removed. Since that time, it has been decided that they will be removed in conjunction with the removal of the wash/grease rack.

2. There are a few environmental concerns associated with the removal of the OWS. First, all the water/sludge in the OWS must be tested for ignitability, heavy metals, total petroleum hydrocarbons (TPH) using the OA1 Method, benzene, volatile and semi-volatile organic compounds (VOCs). Should these tests show that the water/sludge in the OWS are a hazardous waste, the waste must disposed of in accordance with all state and federal laws for hazardous waste disposal. If the waste is not above the limits of the tested constituents, then the waste should be disposed of as a non-regulated waste in accordance with state and federal regulations.

Second, the OWS should be steam cleaned (or by a similar method) to remove all residue from the walls of the OWS. Once cleaned, the concrete from the walls and floor must be tested for only the constituents that were characterized above the acceptable limit, as identified in previous testing of the water/sludge waste. Should the concrete test above the limit for the contaminants, the portion of the concrete with residual on, must be removed from the OWS and disposed of in accordance with state and federal hazardous waste regulations. If the waste in the OWS is not hazardous, the concrete does not need to be tested and concrete with residual does not have to be removed separately.

3. It has not been determined on how the OWS will be removed. The pipe from the OWS to the sanitary sewer must be capped or completely removed before the pit is filled in. If the OWS is to be left in place and filled in, then the concrete identified as a hazardous waste needs to be removed and disposed of according to hazardous waste regulations. If all concrete is to be removed, again, concrete identified as a hazardous waste needs to be removed and disposed of separately, according to hazardous waste regulations. All other concrete can be disposed of in a regular or demolition landfill.

4. There are no other concerns associated with the removal of the OWS in conjunction with the wash/grease rack. It is recommended that the OWS be removed with the wash/grease rack provided it is done in accordance with the statements included in this supplemental review.

5. This supplemental to the EBS is for the removal of the OWS in conjunction with the wash/grease rack at Middletown, IA. Any changes, modifications or adjustments to the scope of work, contract or work plan, subsequent to the date on this document makes this supplemental null and void.

PREPARED BY: _____ DATE: 31 Jul 98
MARIA LEHNER
Environmental Specialist
Bregman & Co. Inc., For the 89th RSC

REVIEWED BY: _____ DATE: 3 Aug 98
FREDDIE L. MELTON, JR.
Supervising Environmental Specialist
U.S. Army 89th Regional Support Command

APPROVED BY: _____ DATE: 3 Aug 98
for JOHN A. FENILI
Facility Management Officer

ENVIRONMENTAL BASELINE STUDY
REMOVE WASH/GREASE RACK
U.S. ARMY RESERVE TRAINING CENTER, (USARTC),
MIDDLETOWN, IA FAC ID: IA019

1. On 3 June 98, an Environmental Baseline Study (EBS) was completed for the removal of the wash/grease rack at the USARTC, located at Hwy 79 West, RR1, Middletown, IA. The facility consists of two buildings. The main (administrative) building is approximately 2849 square feet and the Organizational Maintenance Shop (OMS) covers 679 square feet. Both buildings are one story brick buildings built in 1972.

2. The wash/grease rack is made of concrete and metal. The rack was used for the inspection of the underside of vehicles and oil changing. The units located at the facility stopped using the rack five years ago. The rack is located on a concrete pad just to the south of the OMS. The greaserack, which has a drain underneath it is located next to wash platform. The water from both the greaserack and wash platform flow into an oil/water separator and then to the sewer system of the Iowa Army Ammunition Plant (IAAP). There are no signs of any large oil stains on the concrete.

3. There were no environmental concerns noted with this project.

4. Recommend the wash/grease rack be removed.

5. This EBS is for Project , Remove Wash/grease Rack, USARTC, Middletown, IA. Any changes, modifications or adjustments to the scope of work, contract or work plan, subsequent to the approval date on this document, renders this EBS null and void.

PREPARED BY: Maria Lehner DATE: 9 Jun 98
MARIA LEHNER
Environmental Specialist
Bregman & Co. Inc., For the 89th RSC

REVIEWED BY: _____ DATE: _____
FREDDIE L. MELTON, JR.
Supervising Environmental Specialist
U.S. Army 89th Regional Support Command

APPROVED BY: _____ DATE: _____
JOHN A. FENILI
Facility Management Officer

ENVIRONMENTAL BASELINE STUDY (EBS) INFORMATION CHECKLIST

SITE NAME: **U.S. Army Reserve Training Center**

PROJECT: **Remove Wash/Grease Rack**

ADDRESS: **Hwy 79 West, RR 1**
Middletown, IA 52638-9700

DATE: **10 June 1998**

ENDANGERED RESOURCES

No federal or state threatened or endangered (T&E) plant or animal species are known to occur or likely to occur at the USARTC. The grease rack is located on asphalt within a fenced area of the facility. Also, the duration of the project will be short, therefore, no negative impacts on potential T&E species or their habitat that may be located in the nearby area is expected.

CULTURAL RESOURCES

The USARTC was constructed in 1972. During an EBS conducted in December 1996, by the 89th RSC, the Iowa State Historical Society (ISHS) was contacted in regards to the effect of a renovation project, on the effects of this project on the facility's historical significance and eligibility of nomination to the National Historic Register . ISHS responded that the facility was not eligible and that the renovations would not impact the historical significance of the facility. It is therefore assumed, that this minor project will not have a negative impact on any cultural resources at the facility. Only above ground structures will be removed and there will be no land disturbance.

WETLANDS, FLOODPLAINS, AND WATERBODIES

The facility is not located next to any bodies of water. There are no wetlands located on or near the property. It is not located within the 100 year floodplain. The project area is located on the asphalt of the Military Equipment Parking (MEP) lot. Therefore, no impact on waterbodies, wetlands or floodplains is expected.

UNEXPLODED ORDNANCE

No unexploded ordnance is believed to be located in or around the proposed site.

HAZARDOUS MATERIALS AND/OR WASTE SPILLS

Various lubricants and petroleum products are stored at the facility. Vehicle maintenance is conducted in the OMS. The wash/grease racks were historically used for inspection of the underside of the vehicles and possibly fluid (oil, antifreeze) changes. This practice has not been conducted in the past few years. Areas of past spills are not visible or documented to have occurred.

ASBESTOS

There has never been an asbestos survey conducted at this facility. Since the greaserack is comprised of concrete and metal, no asbestos containing material (ACM)

is believed to exist on the structure. It is not anticipated that ACM will be encountered during this project.

ATMOSPHERIC LEAD PARTICLES IN INDOOR SHOOTING RANGES
The indoor firing ranges in the 89th RSC have been closed until the ranges can be cleaned and converted and only authorized personnel in proper personal protective equipment are granted permission to enter. The indoor firing range will be scheduled for cleaning and will be converted for other uses as funds become available. The indoor firing ranges were determined to be hazardous due to exposure to lead dust. No work will be done from inside the firing range nor can access be gained from the outside into the firing range i.e. the ventilation fan in the firing range. This project will not impact the firing range.

ON SITE OF OLD LANDFILL
There is no evidence that this facility is built on or near any type of landfill.

RADON
The USARTC was tested for radon and results did not exceed EPA action level of 4.0 picocuries/liter. This project will not impact indoor air quality.

PCBs/DEHPs
It is possible that the facility has PCB and DEHP ballasts in the light fixtures. There is not a complete inventory of these items. However, this project will not affect any PCB or DEHPs containing equipment.

LEAD PAINT
Due to the age of the building it is possible that the painted surfaces in the building were painted with a lead-based paint. The interior of the main building was repainted three years ago. This action will involve the dismantling of the wash/grease rack, which is not painted. Disturbance to existing painted surfaces will not occur.

UNDERGROUND STORAGE TANKS
No underground storage tanks exist or were believed to exist at this site.

NOISE
The facility has negligible noise levels and there will be little if any noise associated with this project. The noise created would only continue for the duration of the project. There is a Facility ICUZ/Environmental Noise Abatement SOP in place at this center and all noise complaints will be handled in accordance with this SOP.

CLEAN AIR
This facility is not located in a non-attainment area. In 1995 EarthTech conducted a Title V Inventory for the facility. They determined that the facility falls below any Title V reporting requirements. There may be a slight increase in air emissions during the repair work. These increases will be short lived and will not increase the annual air emissions of the facility.

ODS PHASE OUT
There is no inventory of ODS containing equipment in the facility. This project will not involve the repairing/modifying of any ODS containing equipment.

BACKFLOW PREVENTION
Backflow devices are required to be placed on the water lines to the facility. The 89th RSC is currently attempting to install backflow devices at all deficient facilities, to include the Middletown USARTC. This project will not impact any water supply lines to the facility.

POLLUTION PREVENTION OPPORTUNITIES
There are generally four areas of concern in considering pollution prevention opportunities at the Middletown USARTC. They are: hazardous materials, hazardous waste, solid waste and ozone depleting substances.

Hazardous Materials:
- Turn over to RXA or DRMO all materials not currently used in facility operations.
- Don't order limited use items until existing stock is depleted and ensure that the quantity ordered is in proportion to the amount required for the job.
- Keep amount of hazardous materials to a minimum and properly store materials so that they don't become unusable.
- When ordering a material, substitute a less hazardous material when available.
- Replace solvent based paint with water-based paint
- Replace conventional lead-acid vehicle/equipment batteries with sealed, starved electrolyte, gas recombination batteries (gel batteries)
- Recycle lead-acid batteries

Hazardous Waste
- Reduce the number of times that parts washers solvent has to be replaced, by replacing current parts washers with washers that filter solvents, thereby, increasing the life of solvent
- Recycle spent antifreeze.
- Recycle burned out fluorescent bulbs rather than disposing of them in the trash.
- Recycle light ballasts labeled as containing PCBs.

Solid Waste
- The facility should recycle paper, aluminum cans, scrap metal, corrugated cardboard, and non-PCB light ballasts.
- Biodegradable waste (grass clippings, brush etc.) should be composted.
- Wash and reuse oily, dirty rags.
- Separate all waste POL products prior to disposal. Contract to have waste oil and other POL products collected for recycling.
- Replace the use of disposable alkaline batteries with rechargeable alkaline batteries.
- Recycle used tires.
- Drain all oil filters and turn in for recycling as scrap metal.
- Place fluids drained from equipment for purposes other than replacement, in clean containers such that they can be reused.

ENERGY CONSERVATION CONTROLS
Currently plans are being made to upgrade all 89th facilities to the latest energy efficient standard. All potential areas will be surveyed for possible energy conservation controls. Potential areas include new lighting systems, HVAC controls, boiler repair/replacement

and building envelope upgrade. The new lights should utilize electronic ballasts with T8 fluorescent bulbs. This will increase the efficiency of the lights and eliminate any future hazardous waste disposal of bulbs and ballasts.

STORMWATER

There are no stormwater permits associated with this facility. This project will improve stormwater quality by reducing the number of structures which stormwater runs off of. This project does not require a stormwater permit.

PERMITS

None.

AFRC-CKS-ENE

December 15, 1999

MEMORANDUM FOR FACILITY MANAGEMENT OFFICER, ODCSENGR, 89TH RSC

SUBJECT: Environmental Review of Project #J19010029J,

1. The Environmental Division has finished its review of the proposed repair of lights and ceilings in the Burlington,IA USARTC, Project J19010029J. The proposed project is described in detail in Attachment 1, pages 1-4.

2. The work being proposed does not constitute any major undertaking. The repair of lights and ceilings is considered routine repair and maintenance. An EBS was prepared in June of 1999 for the replacement of the Burlington Memorial USARTC roof (Project #J19020019J.

3. Given the age of the building (1972) and based on a review of the above EBS, completed in June 1997, we recommend that the light ballasts and fluorescent tubes be properly disposed of or recycled. Older light ballasts may contain PCB's. It is possible that the ceiling tiles being replaced may have some asbestos content. Ceiling tile should be tested for asbestos and dealt with according to state and federal regulations.

4. If additional information is required, please contact Ms. Elisabeth Carey at (515)285-8432, fax (515)285-5478.

FREDDIE MELTON
Environmental Specialist

Enclosures
Form 71R, Form 4283

AFRC-CKS-ENE

FMO, 89TH RSC (15 December 1999)

FOR RECORD

Concur ✓ Non-Concur _____ See Me _____

Remarks/Reason(s) For non-concurrence:

JOHN A. FENILI
Facility Management Officer

ej19010029j

WRIGHT

20 OCT 99

PROPERTY INSPECTION CHECKLIST FOR ENVIRONMENTAL BASELINE STUDIES

(The proponent agency is DCSENGR)

LOCATION: Burlington Memorial USARTC, Burlington, IA FACILITY ID: IA019 PROJECT NO. J19010029J

PROJECT NAME: Repair Lights and Ceilings

PROPOSED ACTION: Replace ceiling systems throughout the center. Install new 24" x 24" suspended ceiling grid, with mineral fiber tiles, 5/8" thick, revealed-edge, deeply-fissured, and finished with a factory applied white finish. Install 2' x 4' fluorescent fixtures using 32WT8 48" fluorescent lamps, electronic ballast (usually instant start), with specular reflectors and parabolic louvers. 2. As appropriate, replace existing exit lighting with LED exit lights with battery back-up. 3. As needed, install battery-powered emergency lighting.

I. PROPERTY USE:

A. CHECK ALL THAT APPLY.

RESIDENTIAL	INDUSTRIAL	MIXED
AGRICULTURAL	COMMERCIAL	OTHER X

B. ADJACENT PROPERTY USE AND TOPOGRAPHIC RELATIONSHIP.

NORTH	SAME
SOUTH	SAME
EAST	SAME
WEST	SAME

C. ATTACH COPY OF INSTALLATION MAP SHOWING FOOTPRINT OF AREA UNDER CONSIDERATION.

II. SITE OWNERSHIP HISTORY AND USE:

1. CURRENT OWNER: U.S.Army Reserve
2. CURRENT LAND USE: USARTC and OMS
3. PREVIOUS OWNER(S): US Army Ammunition Plant
4. PREVIOUS LAND USE: Ammunition Manufacturing

III. PROPOSED FUTURE USE(S):

1. TYPE USE(S): Continued use.
2. USER POPULATION: No change.
3. ANY OBVIOUS USE RESTRICTIONS: None

IV. FEATURES / COMMENTS:

NUMBER AND TYPE OF BUILDINGS / STRUCTURES ON PROPERTY:

P0001	17140	USAR Training Center	2849 sf
P0002	21409	OMS	679 sf

11.0 acres; 1476 sy MEP; 679 sy POV parking

V. SITE INSPECTION:

A. ENVIRONMENTAL CONDITIONS OBSERVED (SHOW LOCATION ON FACILITY MAPS).

	YES	NO	N/A	REMARKS
1. SUSPICIOUS/UNUSUAL ODORS			X	
2. DISCOLORED SOIL			X	
3. DISTRESSED VEGETATION			X	
4. DIRT / DEBRIS MOUNDS			X	
5. GROUND DEPRESSIONS			X	
6. POL STAINING			X	
7. ASBESTOS CONTAINING MATERIALS				

cj19010029j

20 OCT 99

	WRIGHT YES	NO	N/A	REMARKS
8. ABOVE GROUND STORAGE TANK			X	
LOCATION(S):				
SIZE / PRODUCT:				
9. UNDERGROUND STORAGE TANK			X	
LOCATION(S):				
SIZE / PRODUCT:				
10. LANFILLS / WASTE PILES			X	
11. IMPOUNDMENTS / LAGOONS			X	
12. INJECTION WELLS			X	
13. DRUM / CONTAINER STORAGE			X	
PRODUCT:				
14. INCINERATOR			X	
15. ELECTRICAL TRANSFORMERS				
16. STANDPIPES / VENT PIPES			X	
17. DISCHARGES TO SURFACE WATERS / DITCHES			X	
18. POWER OR PIPE LINES			X	
19. MINING / LOGGING ACTIVITY			X	
20. GROUNDWATER MONITORING WELLS			X	

21. OTHERS: Light ballasts may contain PCBs. Flourescent light tubes need to be properly disposed of or recycled.

B. CULTURAL RESOURCES: (HISTORIC PROPERTIES / ARCHAEOLOGY) N/A

C. ENDANGERED / THREATENED SPECIES: (STATE / FEDERAL LIST) N/A

D. HAS AN EBS, EA, OR EIS BEEN PREVIOUSLY COMPLETED?
TITLE: Repair roof, Burlington, IA, Project J19020019J
LOCATION: 88th RSC
SOURCE: Kate Ellson, for 88th RSC
DATE: 10 June 1999

VI. MAPS

VII. OTHER INFORMATION

VIII. RECOMENDATIONS:

IX. PREPARED BY: Elisabeth Carey, J.M. Waller
TITLE: Environmental Coordinator
DATE: 15 December 1999

APPROVED BY: [signature]
TITLE: Env. Sec
DATE: 21 Dec 99

USARC FORM 1 ... (TEST)

USAR FACILITIES SUPPORT REQUEST

PART A (To be completed by requestor)	REQUESTOR ID CODE	REQUEST SERIAL NUMBER	FY	TYPE	SHORT DESCRIPTION OF REQUIREMENT (PRINT)	DATE INITIATED YR	MO	DA
	J19	01002	9	J	Repair Lights and Ceiling	98	09	15

FACILITY ID CODE	BUILDING/FACILITY NUMBERS 1	2	3	4	5	6	7	8	9	10
A019	P0001									

FACILITY NAME	POC NAME	POC PHONE NUMBER
ARLINGTON MEMORIAL USARC	MR R. HESTER JR	3193924296

DESCRIPTION OF REQUIREMENT:
See 4283 Continuation Page

JUSTIFICATION FOR REQUIREMENT:
See 4283 Continuation Page

For

MR R. HESTER JR — AUTHORIZED REQUESTOR: (Type or Print)

3193924296 — Phone

Civil Engr, 89th RSC — SIGNATURE

PART B (To be completed by Regional Engineer Approving Official Only)			DATE YR	MO	DA
	APPROVAL ACTION CODE:	PROGRAM INDICATOR CODE:			
	REQUIREMENT TYPE: B M A R	SPECIAL INTEREST CODE:			
	APPROPRIATION: Q O L E	DATE OF APPROVAL:			

REMARKS:

ENVIRONMENTAL IMPACT YES	NO		WORK TO BE PERFORMED	WORK CLASS (AMSCO)	ESTIMATED COSTS Funded	Unfunded	SOURCE OF FUNDS
☑	☐	ENVIRONMENTAL CONSIDERATION	☐ DPW	K	$	$70,000	☐ DIRECT
☐	☐	EIS/EIA INITIATED	☐ SELF HELP		$	$	☐ AUTOMATIC REIMBURSEMENT
☐	☐	EIS/EIA COMPLETED	☑ CONTRACT		$	$	☐ FUNDED REIMBURSEMENT
			☐ TROOP		$	$	
			☐ OTHER		$	$	OTHER FUND CITATION
			COMMENTS:	Total:	$	$70,000	

APPROVAL FOR DESIGN	DATE YR	MO	DA	PROJECT APPROVAL AUTHORITY	APPROVAL ACTION	DATE YR	MO	DA
Larry A. Morseman, MAJ, EN, Sr Plans Officer (Please type or print name)	99	10	07	John A. Fenili, Facility Management Officer (Please type or print name)	☑ APPROVED	99	10	07
(Signature)				(Signature)	☐ DISAPPROVED			

FORM 4283

Date of Printing : 1999/10/07

USAR FACILITIES SUPPORT REQUEST

PART A (To be completed by requestor)	REQUESTOR ID CODE	REQUEST SERIAL NUMBER	FY	TYPE	SHORT DESCRIPTION OF REQUIREMENT (PRINT)	DATE INITIATED YR	MO	DA
	J 1 9	0 1 0 0 2	9	J	Repair Lights and Ceiling	9 8	0 9	1 5

DESCRIPTION OF REQUIREMENT:

Replace ceiling systems throughout the center. Install new 24" x 24" suspended ceiling grid, with mineral fiber tiles, 5/8" thick, sealed-edge, deeply-fissured, and finished with a factory applied white finish. Install 2' x 4' fluorescent fixtures using 32WT8 48" fluorescent lamps, electronic ballast (usually instant start), with specular reflectors and parabolic louvers.

2. As appropriate, replace existing exit lighting with LED exit lights with battery back-up.

3. As needed, install battery-powered emergency lighting.

JUSTIFICATION FOR REQUIREMENT:

Ceiling tile is discolored and stained from water leaks and age. The grids have yellowed and in some cases rusted with age. Original fluorescent lights are not energy efficient, and are becoming maintenance problem.

AFRC-CKS-ENE

December 14, 1999

MEMORANDUM FOR FACILITY MANAGEMENT OFFICER, ODCSENGR, 89TH RSC

SUBJECT: Environmental Review of Project #J19010019J,

1. The Environmental Division has finished its review of the proposed painting of the Burlington,IA USARTC, Project J19010019J. The proposed project is described in detail in Attachment 1, pages 1-4.

2. The work being proposed does not constitute any major undertaking. Painting and caulking is considered routine repair and maintenance. An EBS was prepared in June of 1999 for the replacement of the Burlington Memorial USARTC roof (Project #J19020019J.

3. Given the age of the building (1972) and based on a review of the above EBS, completed in June 1997, it is possible that the original paint used in the facility had some lead content. Latex paint peels when applied over an older oil based paint. If the paint will be removed before the new paint is applied, it should be tested for lead. If the paint is of lead content, the appropriate safety and environmental regulations should be followed. If additional information is required, please contact Ms. Elisabeth Carey at (515)285-8432, fax (515)285-5478.

FREDDIE MELTON
Environmental Specialist

Enclosures
Form 71R, Form 4283

AFRC-CKS-ENE

FMO, 89TH RSC (14 December 1999)

FOR RECORD

Concur ✓ Non-Concur _____ See Me _____

Remarks/Reason(s) For non-concurrence:

For JOHN A. FENILI
Facility Management Officer

20 OCT 99

ej19010019j

WRIGHT

PROPERTY INSPECTION CHECKLIST FOR ENVIRONMENTAL BASELINE STUDIES

(The proponent agency is DCSENGR)

LOCATION: Burlington Memorial USARTC, Burlington, IA FACILITY ID: IA019 PROJECT NO. J19010019J

PROJECT NAME: **Paint Facility**
PROPOSED ACTION: 1. Repaint interior and exterior of center and OMS buildings. 2. Repair caulk and other sealants as necessary to ensure that buildings are watertight.

I. PROPERTY USE:
A. CHECK ALL THAT APPLY.

RESIDENTIAL	INDUSTRIAL	MIXED
AGRICULTURAL	COMMERCIAL	OTHER X

B. ADJACENT PROPERTY USE AND TOPOGRAPHIC RELATIONSHIP.

NORTH	SAME
SOUTH	SAME
EAST	SAME
WEST	SAME

C. ATTACH COPY OF INSTALLATION MAP SHOWING FOOTPRINT OF AREA UNDER CONSIDERATION.

II. SITE OWNERSHIP HISTORY AND USE:

1. CURRENT OWNER: U.S.Army Reserve
2. CURRENT LAND USE: USARTC and OMS
3. PREVIOUS OWNER(S): US Army Ammunition Plant
4. PREVIOUS LAND USE: Ammunition Manufacturing

III. PROPOSED FUTURE USE(S):
1. TYPE USE(S): Continued use.
2. USER POPULATION: No change.
3. ANY OBVIOUS USE RESTRICTIONS: None

IV. FEATURES / COMMENTS:
NUMBER AND TYPE OF BUILDINGS / STRUCTURES ON PROPERTY:

P0001	17140	USAR Training Center	2849 sf
P0002	21409	OMS	679 sf

11.0 acres; 1476 sy MEP; 679 sy POV parking

V. SITE INSPECTION:
A. ENVIRONMENTAL CONDITIONS OBSERVED (SHOW LOCATION ON FACILITY MAPS).

	YES	NO	N/A	REMARKS
1. SUSPICIOUS/UNUSUAL ODORS			✓	
2. DISCOLORED SOIL			✓	
3. DISTRESSED VEGETATION			✓	
4. DIRT / DEBRIS MOUNDS			✓	
5. GROUND DEPRESSIONS			✓	
6. POL STAINING			✓	
7. ASBESTOS CONTAINING MATERIALS			✓	

USARC FORM 1 JUL 96 71.. (TEST)

ej19010019j

20 OCT 99

	WRIGHT YES	NO	N/A	REMARKS
8. ABOVE GROUND STORAGE TANK			✓	
LOCATION(S):				
SIZE / PRODUCT:				
9. UNDERGROUND STORAGE TANK			✓	
LOCATION(S):				
SIZE / PRODUCT:				
10. LANFILLS / WASTE PILES			✓	
11. IMPOUNDMENTS / LAGOONS			✓	
12. INJECTION WELLS			✓	
13. DRUM / CONTAINER STORAGE			✓	
PRODUCT:				
14. INCINERATOR			✓	
15. ELECTRICAL TRANSFORMERS			✓	
16. STANDPIPES / VENT PIPES			✓	
17. DISCHARGES TO SURFACE WATERS / DITCHES			✓	
18. POWER OR PIPE LINES			✓	
19. MINING / LOGGING ACTIVITY			✓	
20. GROUNDWATER MONITORING WELLS			✓	

21. OTHERS: Original paint used on the Reserve Center may have some lead content.

B. CULTURAL RESOURCES: (HISTORIC PROPERTIES / ARCHAEOLOGY) N/A

C. ENDANGERED / THREATENED SPECIES: (STATE / FEDERAL LIST) N/A

D. HAS AN EBS, EA, OR EIS BEEN PREVIOUSLY COMPLETED?
TITLE: Repair Roof, Burlington, IA, Project J19020019J
LOCATION: 89th RSC
SOURCE: Capt. Ellison for 89th RSC
DATE: 10 June 1999

VI. MAPS

VII. OTHER INFORMATION

VIII. RECOMENDATIONS:

IX. PREPARED BY: Elisabeth Carey, J.H. Waller
TITLE: Environmental Coordinator
DATE: 14 December 1999

APPROVED BY: Freddie L. Mellor
TITLE: Env Specialist
DATE: 5 Jan 00

USARC FORM 71-R (TEST)

USAR FACILITIES SUPPORT REQUEST

SHORT DESCRIPTION OF REQUIREMENT (PRINT): Paint Facility

DATE INITIATED: YR 98 MO 09 DA 15

PART A (To be completed by requestor)

REQUESTOR ID CODE	REQUEST SERIAL NUMBER	FY	TYPE
J19	01001	9	J

FACILITY ID CODE: A019

BUILDING/FACILITY NUMBERS: 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10

FACILITY NAME: BURLINGTON MEMORIAL USARC

POC NAME: MR R. HESTER JR

POC PHONE NUMBER: 319392429 6

DESCRIPTION OF REQUIREMENT:

1. Repaint interior and exterior of center and OMS buildings.
2. Repair caulk and other sealants as necessary to ensure that buildings are watertight.

JUSTIFICATION FOR REQUIREMENT:

The paint is peeling and chalking on both the interior and exterior of the Center and OMS buildings.

For MR R. HESTER JR — Phone 3193924296 — SIGNATURE: Gen Engr, 85th RSC

AUTHORIZED REQUESTOR: (Type or Print)

PART B (To be completed by Regional Engineer Approving Official Only)

APPROVAL ACTION CODE: A

REQUIREMENT TYPE: BMAR

APPROPRIATION: QOLE

PROGRAM INDICATOR CODE:

SPECIAL INTEREST CODE:

DATE OF APPROVAL: YR MO DA

REMARKS:

ENVIRONMENTAL IMPACT	YES	NO
ENVIRONMENTAL CONSIDERATION	☑	☐
EIS/EIA INITIATED	☐	☐
EIS/EIA COMPLETED	☐	☐

WORK TO BE PERFORMED: ☐ DPW ☐ SELF HELP ☑ CONTRACT ☐ TROOP ☐ OTHER

COMMENTS:

WORK CLASS (AMSCO)	ESTIMATED COSTS Funded	Unfunded
K	$	$ 90,000
	$	$
	$	$
	$	$
Total:	$	$ 90,000

SOURCE OF FUNDS: ☐ DIRECT ☐ AUTOMATIC REIMBURSEMENT ☐ FUNDED REIMBURSEMENT

OTHER FUND CITATION

APPROVAL FOR DESIGN	DATE YR	MO	DA
Larry A. Morseman, MAJ, EN, Sr Plans Officer (Please type or print name)	99	10	07
(Signature)			

PROJECT APPROVAL AUTHORITY	APPROVAL ACTION	DATE YR	MO	DA
John A. Fenili, Facility Management Officer (Please type or print name)	☑ APPROVED	99	10	07
(Signature)	☐ DISAPPROVED			

Date of Printing: 1999/10/07

FORM 4283

FROM : PHONE NO. : Dec. 12 1998 05:24PM P5

WESTON WASTE STUDY

AFRC-CKS-EN (200-1) 25 Jun 98

MEMORANDUM FOR RECORD

SUBJECT: Status of Iowa Sites from Waste Site Characterization Study, U.S. Army Property Waste Site Summary, March, 1989 by Roy F. Weston, Inc. (Weston Study)

1. Reference memorandum, HQUSARC, AFRC-ENV, 9 Mar 98, subject: Evaluation of Weston Study Reports.

2. The Weston Study was conducted for the U.S. Army Toxic and Hazardous Materials Agency (USATHAMA) to establish baseline data reflecting potential waste sites at Army properties. Waste sites for the purposes of this study were defined broadly to include any location at a facility from which hazardous constituents might be released. A brief report for each property was complied with data collected from a questionnaire and a telephone follow-up with Army personnel familiar with the property. At the early stage of the Installation Restoration Program (IRP) in which they were prepared, the reports were intended to be used for future IRP communication and as an initial basis for the allocation of resources.

3. Subsequently the site enumeration of the Weston Study was entered into a database for tracking Army IRP status. Significantly, this data entry was stopped before all volumes of the Weston Study were in the database because of the realization that the preponderance of the sites, entered and not entered, had no release or suspected release of hazardous substances to the environment. The approximately 4800 U.S. Army Reserve sites already entered were allowed to remain, and were carried into the Defense Site Environmental Restoration Tracking System (DSERTS) database with the fielding of DSERTS software.

4. With knowledge that most of these sites were in the DSERTS database without meeting the criteria for inclusion in the IRP, approximately 4000 were given "Response Complete" dates of 177607 and 199002 as markers to indicate the belief that the sites were not likely to be valid IRP sites. Additionally, it was AEC's intent to ensure that programmatic roll-ups would reflect an accurate picture of valid, open restoration sites.

5. This memorandum for record documents the results of a comprehensive effort to confirm or deny the "Response Complete" status of sites in the Weston Study for reserve facilities in the State of Iowa and providing them with a current status date where appropriate.

AFRC-CKS-EN
SUBJECT: Response Complete Status of Defense Site Environmental Restoration Tracking System (DSERTS) Sites from Waste Site Characterization Study, U.S. Army Property Waste Site Summary, March, 1989 by Roy F. Weston, Inc. (Weston Study)

6. The methodology used for determination of "Response Complete" status for sites is at Enclosure 1. Following enclosures document the determinations made and the reasons for them:

Environmental investigation (s) since the Weston Study show that no further action is required at the site (Encl 2)

Site is not a permanent structure (Encl 3)

Site is not an Area of Concern for release or disposal of CERCLA hazardous substance (Encl 4)

Site is an active facility (Encl 5)

Site is not Army Reserve property (Encl 6)

Site requires further evaluation (no new "Response Complete" date) (Encl 7)

7. Information found during this evaluation of the Weston Study that indicates an environmental program requirement outside of the IRP has be retained for further appropriate action.

6 Encls

FREDDIE L. MELTON, JR.
Supervising Environmental Specialist
89TH RSC

WESTON STUDY EVALUATION

No Further Action Required -- Environmental Investigation

INSTALLATION	SITE #	SITE NAME	RC DATE
No Sites for Iowa			

Encl 2

WESTON STUDY EVALUATION

Not A Permanent Structure

INSTALLATION	SITE #	SITE NAME	RC DATE
USARTC Cherokee, IA	Site 06	Parts Cleaner	199805
USARTC Cherokee, IA	Site 08	Flammable Mat. Storage	199805
USARTC Decorah, IA	Site 01	Waste Oil Trailer	199805
USARTC Decorah, IA	Site 06	Paint Lockers	199804
ASF #60, Des Moines, IA	Site 05	Flammable Mat. Lockers	199805
USARTC Des Moines, IA (B100)	Site 03	Flammable Mat. Lockers	199805
USARTC Des Moines, IA (B100)	Site 09	Storage Trailer	199805
USARTC Des Moines, IA (B100)	Site 12	Mobile Storage Tank	199805
USARTC Middletown, IA	Site 08	Mobile Storage Tank	199805
USARTC Fort Dodge, IA	Site 02	Storage Lockers	199804
USARTC Garner, IA	Site 02	Flammable Storage Lockers	199804
USARTC Sac City, IA	Site 03	Parts Cleaner	199804
AFRC Sioux City, IA	Site 01	Waste Oil Tank	199805
AFRC Sioux City, IA	Site 03	Parts Cleaner	199804
AFRC Sioux City, IA	Site 08	Flammable Mat. Locker	199804
AFRC Sioux City, IA	Site 11	Flammable Mat. Locker	199805
AFRC Sioux City, IA	Site 12	Flammable Mat. Locker	199805
USARTC Washington, IA	Site 04	Parts Cleaner	199804

Encl 3

WESTON STUDY EVALUATION

Site Is Not An Area of Concern For Release

INSTALLATION	SITE #	SITE NAME	RC DATE
USARTC Ames, IA	Site 01	Diesel UST #1	199804
USARTC Ames, IA	Site 04	Hydraulic Lift	199805
USARTC Ames, IA	Site 05	Flammable Storage Room	199804
USARTC Ames, IA	Site 06	Diesel UST #2	199804
USARTC Ames, IA	Site 07	Storage Area	199805
AFRC Cedar Rapids, IA	Site 01	AST	199805
AFRC Cedar Rapids, IA	Site 03	POL Storage Room	199805
USARTC Cherokee, IA	Site 02	Washrack	199805
USARTC Cherokee, IA	Site 03	Diesel UST	199804
USARTC Cherokee, IA	Site 04	Diesel UST #2	199804
USARTC Cherokee, IA	Site 05	Flammable Storage Room	199805
USARTC Davenport, IA	Site 01	Waste Oil UST	199805
USARTC Davenport, IA	Site 02	Fuel Oil UST	199805
USARTC Davenport, IA	Site 03	POL Storage Room	199804
USARTC Des Moines, IA (B100)	Site 01	Firing Range	199804
USARTC Des Moines, IA (B100)	Site 02	Fuel Oil UST	199804
USARTC Decorah, IA	Site 03	POL Store Room	199805
USARTC Des Moines, IA (B100)	Site 04	POL Room	199805
USARTC Des Moines, IA (B100)	Site 06	Brake Changing Area	199805
USARTC Des Moines, IA (B100)	Site 08	Drum Storage Area	199805
USARTC Des Moines, IA (B100)	Site 10	Grease Rack	199805
USARTC Garner, IA	Site 03	Grease Rack	199804
USARTC Garner, IA	Site 04	POL Storage Room	199805
USARTC Garner, IA	Site 05	Drum Storage Area	199805
USARTC Middletown, IA	Site 05	Brake Changing Area	199805
USARTC Mount Pleasant, IA	Site 02	Brake Changing Area	199805
USARTC Mount Pleasant, IA	Site 04	Waste Oil Drum	199805
USARTC Mount Pleasant, IA	Site 03	POL Storage Room	199804
USARTC Pocahontas, IA	Site 02	Fuel Oil UST	199804
USARTC Pocahontas, IA	Site 05	POL Room	199805
USARTC Pocahontas, IA	Site 06	Fuel Oil UST	199804
USARTC Sac City, IA	Site 01	Waste Oil Storage	199805
USARTC Sac City, IA	Site 04	Firing Range	199804
AFRC Sioux City, IA	Site 02	Waste Storage Area	199805
AFRC Sioux City, IA	Site 05	Fuel Oil UST	199804
AFRC Sioux City, IA	Site 06	Fuel Oil UST	199804
AFRC Sioux City, IA	Site 07	POL Storage Room	199805

USARTC Iowa City, IA	Site 01	UST	199804
AFRC Sioux City, IA	Site 09	Battery Storage Area	199805
AFRC Sioux City, IA	Site 13	Antifreeze Drum	199805
AMSA #30 Washington, IA	Site 01	POL Room	199805
AMSA #30 Washington, IA	Site 02	Drum Storage Area	199805
AMSA #30 Washington, IA	Site 03	Battery Room	199805
AMSA #30 Washington, IA	Site 04	Drum Storage Area	199805
AMSA #30 Washington, IA	Site 05	Brake Changing Area	199805
USARTC Washington, IA	Site 02	Hydraulic Lift	199805
USARTC Washington, IA	Site 03	Drum Storage Area	199805
USARTC Washington, IA	Site 05	POL Room	199805

WESTON STUDY EVALUATION

Site Is An Active Facility

INSTALLATION	SITE #	SITE NAME	RC DATE
No sites for Iowa			

Encl 5

WESTON STUDY EVALUATION

Site Is Not Army Reserve Property

INSTALLATION	SITE #	SITE NAME	RC DATE
USARTC Ames, IA	Site 05	Transformer	199805
USARTC Des Moines, IA (Bldgs 63/64/139)	Site 01	Gas UST	199805
USARTC Des Moines, IA (Bldgs 63/64/139)	Site 02	Diesel UST	199805
ASF #60, Des Moines, IA	Site 01	Engine Cleaning Area	199805
ASF #60, Des Moines, IA	Site 02	Drum Storage Area	199805
ASF #60, Des Moines, IA	Site 03	Battery Storage Area	199805
ASF #60, Des Moines, IA	Site 04	Parts Cleaner	199805
ASF #60, Des Moines, IA	Site 06	UST	199805
ASF #60, Des Moines, IA	Site 07	Aircraft Wash Area	199805
USARTC Fort Dodge, IA	Site 01	Septic Tank	199805
USARTC Garner, IA	Site 01	Transformer	199805
USARTC Middletown, IA	Site 01	Transformer	199805
USARTC Muscatine, IA	Site 01	Septic Tank	199805
USARTC Ottumwa, IA	Site 01	POL Storage Room	199804
USARTC Ottumwa, IA	Site 02	Washrack with OWS	199805
USARTC Pocahontas, IA	Site 03	Transformer	199805
USARTC Washington, IA	Site 07	Transformer	199805

WESTON STUDY EVALUATION

Sites Requiring Further Evaluation

INSTALLATION	SITE #	SITE NAME
USARTC Ames, IA	Site 03	Firing Range
USARTC Ames, IA	Site 08	Vehicle Washrack with OWS
AFRC Cedar Rapids, IA	Site 02	Washrack
AFRC Cedar Rapids, IA	Site 04	Firing Range
USARTC Cherokee, IA	Site 01	Hydraulic Lift
USARTC Cherokee, IA	Site 07	Firing Range
USARTC Davenport, IA	Site 04	Firing Range
USARTC Decorah, IA	Site 04	Washrack
USARTC Decorah, IA	Site 05	Firing Range
USARTC Middletown, IA	Site 02	Firing Range
USARTC Middletown, IA	Site 03	POL Storage Room
USARTC Middletown, IA	Site 04	Lift Station
USARTC Middletown, IA	Site 06	Grease Rack
USARTC Middletown, IA	Site 07	Vehicle Washrack with OWS
USARTC Mount Pleasant, IA	Site 01	Vehicle Washrack with OWS
USARTC Pocahontas, IA	Site 01	Firing Range
USARTC Pocahontas, IA	Site 04	Vehicle Washrack with OWS
USARTC Pocahontas, IA	Site 07	Septic Tank
USARTC Sac City, IA	Site 02	Vehicle Washrack with OWS
AFRC Sioux City, IA	Site 04	Vehicle Wash Area
AFRC Sioux City, IA	Site 10	Engine Cleaning Area
USARTC Washington, IA	Site 01	Washrack
USARTC Washington, IA	Site 06	Firing Range
USARTC Des Moines, IA (B100)	Site 05	Vehicle Wash Area
USARTC Des Moines, IA (B100)	Site 11	Vehicle Wash Area

OWS INVESTIGATION

MIDDLETOWN

Site Visit, Description, and Location

This site is located at 17879 Highway 79, PO Box #220, Middletown, Iowa 52368 (figure 56). The main contact for this facility was Richard Hester. The site was visited on August 1 and August 3, 2000, by Robb Ramos (89th Environmental Specialist, Des Moines, Iowa, August 1), (Ken Hedmark, USGS, Iowa City, Iowa, August 1 and 3), Doug Schnoebelen (USGS, Iowa City, Iowa, August 3), and Kent Becher (USGS, Iowa City, Iowa, August 1).

A single wash rack drains to a oil/water separator (figure 57). The separator was dry when opened and is missing one of its the baffles. During the flow test, it was apparent that the oil flowed straight through the system. In addition, the site was revisited a few days after the initial visit and the sump area below the outflow pipe was dry. This may indicate that the separator is not intact.

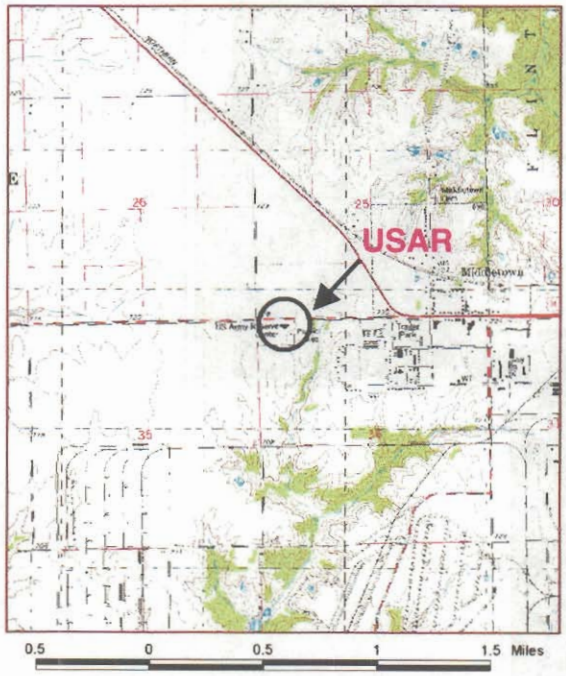


Figure 56: Location of the U.S. Army Reserve Center in Middletown, Iowa (base: USGS 7.5 Minute Topographic Map, Danville (1981)).

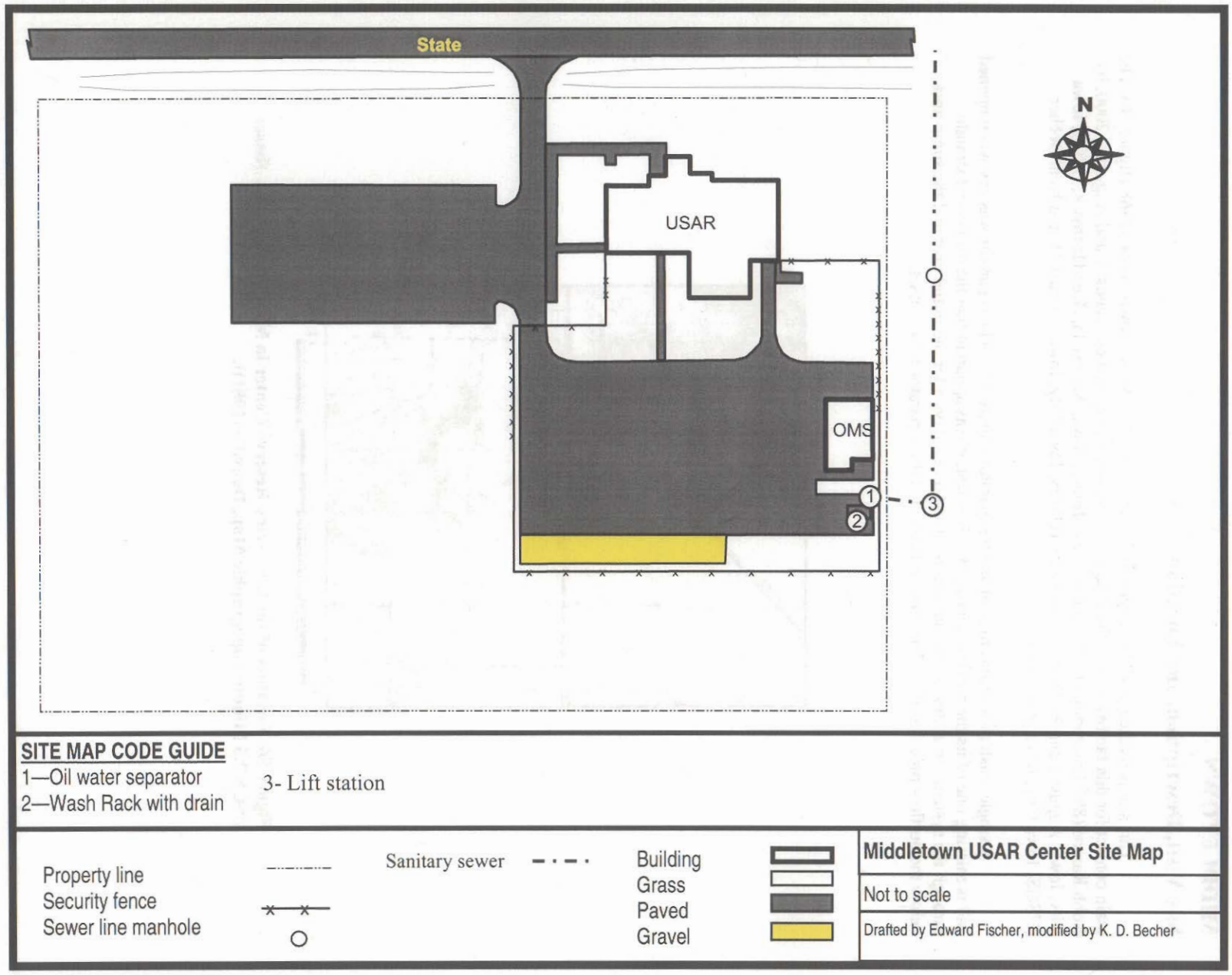


Figure 57: Schematic of U.S. Army Reserve Center in Middletown, Iowa.

Soil Borehole Locations and Results

Figure 58 shows the location of each soil borehole and a generalized schematic diagram of the oil/water separators plumbing. Table 52 lists soil TVOC concentration, depth, lithology, and a description of the location for each soil borehole. Table 53 lists the results for BTEX, GRO, and DRO of the composite soil samples collected at the site.

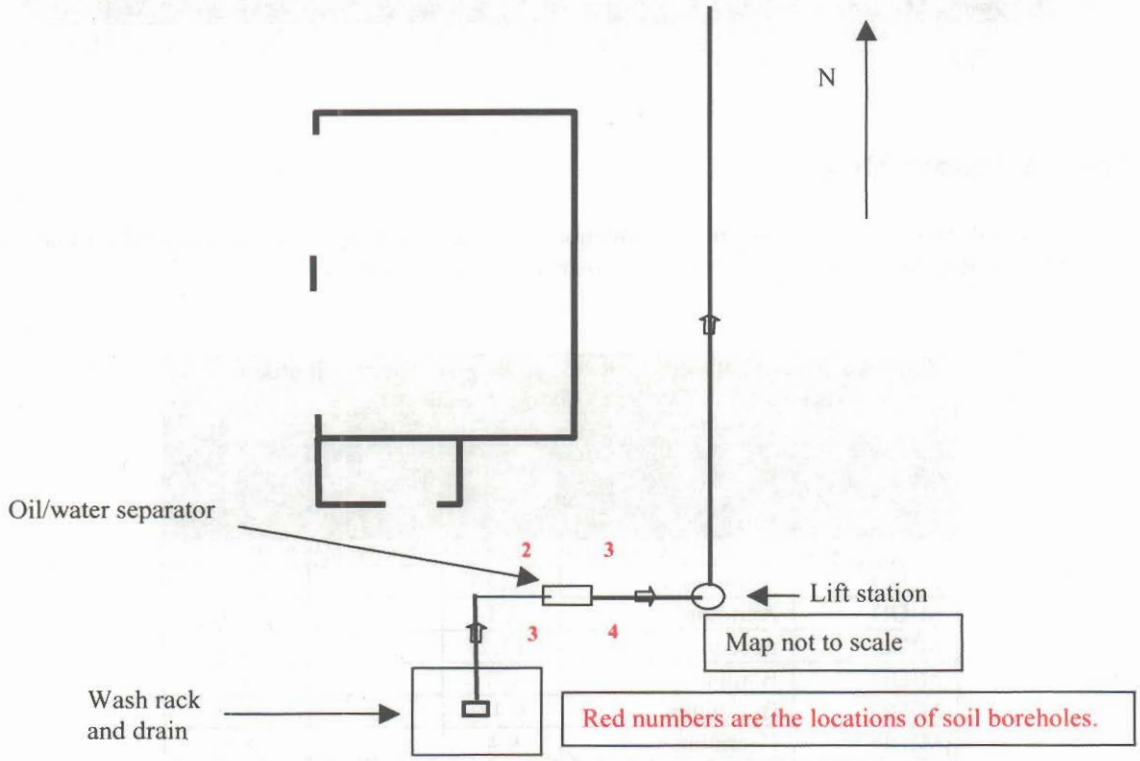


Figure 58: Detailed site map of oil/water separator and soil borehole locations at U.S. Army Reserve Center, Middletown, Iowa.

Table 52: Total volatile organic compound concentrations, depth, lithology, and location of boreholes at U.S. Army Reserve Center, Middletown, Iowa

Soil borehole	TVOC (mg/kg)	Depth (ft.)	Lithology	Soil borehole locations
1	34.8	6.0-6.7	Sand (upper 6 inches), coarse, moist Clay (lower 2 inches), bluish gray, no fuel odors	Located 1 foot 10 inches from the southwest corner of separator
2	<1.0	6.0-6.7	Sand (upper 6 ½ inches), coarse, moist Clay (lower 1 ½ inches), bluish-gray, no fuel odors	Located 1 foot 11 inches from the northwest corner of separator
3	98.7	6.0 - 6.8	Sand (upper 6 inches), coarse, moist Clay (lower 2 inches), bluish-gray, no fuel odors	Located 2 feet 6 inches from the northeast corner of separator
4	<1.0	6.0-6.8	Poor retrieval, estimated to have same lithology at hole number 3	Located 3 feet 9 inches from the southeast corner of separator

Table 53: Analytical results for BTEX, GRO, and DRO of composite samples collected at U.S. Army Reserve Center in Middletown, Iowa						
Composite sample	Benzene/ reporting limit (mg/kg)	Toluene/ reporting limit (mg/kg)	Xylenes/ reporting limit (mg/kg)	Ethylbenzene/ reporting limit (mg/kg)	Gasoline range organics/ reporting limit (mg/kg)	Diesel range organics/ reporting limit (mg/kg)
MIDD	ND/0.030	ND/0.030	ND/0.030	ND/0.030	ND/0.61	ND/12
ND; no detection						

Trace and Heavy Metals

Samples were obtained from the first chamber of the oil/water separator and analyzed for trace and heavy metals. Results of this analysis for Middletown are listed in table 54.

Table 54: Analytical results of metals sampled from grit chamber at U.S. Army Reserve Center in Middletown, Iowa				
Metals				
Site ID	Compound name	Result (mg/kg)	Lab qualifier	Reporting limit (mg/kg)
[ND; no detection, B; Estimated result, value is less than reporting limit]				
MIDD	Aluminum	7,250		13.3
MIDD	Antimony	2.1		1.3
MIDD	Arsenic	11.2		1.3
MIDD	Barium	107		1.3
MIDD	Beryllium	0.47	B	0.66
MIDD	Cadmium	9.4		0.66
MIDD	Chromium	26.6		1.3
MIDD	Cobalt	5.3		1.3
MIDD	Copper	52.3		2.7
MIDD	Lead	79.4		1.1
MIDD	Manganese	448		1.3
MIDD	Nickel	16.9		5.3
MIDD	Selenium	0.66	B	1.7
MIDD	Silver	ND		1.3
MIDD	Thallium	ND		1.6
MIDD	Zinc	645		2.7

Dye Trace and Oil Test

Wash drain is connected to the separator with outflow to a lift station, which is connected to the sanitary sewer. Visual observation during oil test observed that no oil was retained in the separator and flowed through to the sanitary sewer. The separator is not working properly. Results of oil test are listed in table 55.

Table 55: Analytical results of oil tests sampled from outflow at U.S. Army Reserve Center, Middletown, Iowa

Site ID	Total suspended solids/ reporting limit (mg/L)	Hexane extractable material, oil and grease compounds/ reporting limit (mg/L)	n-hexane extractable material, sgt/reporting limit (mg/L)
MIDD	**77.6**/4.0	**164**/5.0	**648**/5.0

Observations/Recommendations

Separator does not appear to be working and is missing a baffle. In addition, the separator does not appear to be retaining water during flow tests and after rainfall events. Separator may not be intact.

Site Photographs

Plate 58: Wash rack and drain.

Plate 59: Oil water separator, baffle missing on right side.

Plate 60: Lift station.

Plate 61: Lift station along fence, sewer runs along fence line to street.

Plate 62: Sanitary sewer lift station.

Phase II Oil/Water Separator Investigation at U.S. Army Reserve Facility, Middletown, Iowa

Prepared by:
Kent D. Becher and Jason J. Smith
U.S. Geological Survey
Iowa City, Iowa

For

U.S. Army Reserve
89th Regional Support Command
Wichita, Kansas

March 2003

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Abbreviations

BTEX	Benzene, Toluene, Ethlybenzene, Xylene
DRO	Diesel Range Organics
GPS	Global Positioning System
GRO	Gasoline Range Organics
ID	Identification
LNAPL	Light nonaqueous phased liquid
MP	Measuring point
OMS	Organizational Maintenance Shop
PVC	Polyvinyl chloride
PID	Photo-ionization detector
QA/QC	Quality Assurance and Quality Control
RP	Reference point
RSC	Regional Support Command
TPH	Total Petroleum Hydrocarbons
USAR	U.S. Army Reserve
USGS	U.S. Geological Survey
VOC	Volatile organic compound
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
μg/L	micrograms per liter

EXECUTIVE SUMMARY

The U.S. Army Reserve 89th Regional Support Command (RSC) is responsible for the management of U.S. Army Reserve (USAR) facilities within the four-state region which includes Iowa, Kansas, Missouri, and Nebraska. In Iowa, there are USAR facilities that conduct maintenance on military vehicles and equipment in support of various Reserve Units. Most all of these maintenance facilities have oil/water separators as part of their liquid waste management equipment. Many of these separators have been in place since the facility was originally constructed and have deteriorated over time. Also, some separators may have design problems that have affected their operational integrity. The 89th RSC is concerned that these oil/water separators may be leaking or overflowing to the environment. Therefore, the 89th RSC requested in the summer of 2000 the U.S. Geological Survey (USGS) to investigate the status of all of its current oil/water separators, sand traps, and grease traps in Iowa. The USGS reported soil, grit chamber, and separator outflow data to the 89th RSC in March of 2001 in the report entitled "*Oil/Water separator investigations at U.S. Army Reserve Centers in Iowa*". Based on the results of the initial Phase I investigation, the 89th RSC decided to complete a more thorough investigation (Phase II) at a few of the sites to determine if the minimal soil contamination that was observed in 2000 was affecting ground-water quality. This report documents the Phase II data collected at the USAR facility in Middletown, Iowa.

The oil/water separator that is located at the USAR in Middletown, Iowa was suspected of leaking during a Phase I study during 2000. In the phase I report, it was documented that this separator did not seem to retain water/oil during the outlflow tests. Based on this observation, it was apparent that the separator was most likely not intact. Total volatile organic compounds concentrations ranged from less than 1.0 to 98.6 mg/kg in soils that surrounded the base of the separator. However, composite soil collected from soil samples collected for gasoline range organics (GRO), diesel range organics (DRO), benzene, toluene, xylenes, and ethylbenzene (BTEX) were not detected. The 89th RSC was concerned that there could be ground-water contamination from this leaking oil/water separator.

Three wells were drilled near the vicinity of the oil/water separator to determine if there was any ground-water contamination occurring from the oil/water separator and to determine the ground-water flow direction. In addition, a split-spoon steel core sampler was used to investigate soils while the wells were being installed. Soil samples were analyzed for GRO (plus BTEX) and DRO at various depths to the water table. No detections of GRO (plus BTEX) or DRO were detected in the soils. The shallow ground-water flow in the southeast corner of the facility is flowing to the southeast. Ground-water samples were collected from each well and were analyzed for GRO (plus BTEX) and DRO. There were no detections above the detection level of GRO (plus BTEX) or DRO. However, there were two estimated values of DRO that were reported below the method reporting level. The soils and ground water at this site do not require any remedial action based on the State's regulations and fall well below any State regulation. Based on visual observations of oil/water not being retained in the oil/water separator in

the Phase I study and on a high specific conductance in well IA019-2, it is possible that the oil/water separator is leaking, but it is not impairing soil and ground water due to the low volume of use of the wash rack and oil/water separator at this site.

INTRODUCTION

The U.S. Army Reserve 89th Regional Support Command (RSC) is responsible for the management of U.S. Army Reserve (USAR) facilities within the four-state region which includes Iowa, Kansas, Missouri, and Nebraska. In Iowa, there are USAR facilities that conduct maintenance on military vehicles and equipment in support of various Reserve Units. Most all of these maintenance facilities have oil/water separators as part of their liquid waste management equipment. Many of these separators have been in place since the facility was originally constructed and have deteriorated over time. Also, some separators may have design problems that have affected their operational integrity. The 89th RSC is concerned that these oil/water separators may be leaking or overflowing to the environment. Therefore, the 89th RSC requested to have the U.S. Geological Survey (USGS) in the summer of 2000 investigate the status of all of its current oil/water separators, sand traps, and grease traps in Iowa. The USGS reported soil, grit chamber, and separator outflow data to the 89th RSC in March of 2001 in the report entitled "*Oil/Water separator investigations at U.S. Army Reserve Centers in Iowa*". Based on the results of the initial Phase I investigation, the 89th RSC decided to complete a more thorough investigation (Phase II) at a few of the sites to determine if the minimal soil contamination that was observed in 2000 was affecting ground-water quality. This report documents the Phase II data collected at the USAR facility in Middletown, Iowa (figure 1).

In the phase I report, it was documented that this separator did not seem to retain oil/water during the outlflow tests. Based on this observation, it was apparent that the separator was most likely not intact. Total volatile organic compounds concentrations ranged from less than 1.0 to 98.6 mg/kg in soils that surrounded the base of the separator. However, composite soil collected from soil samples collected for gasoline range organics (GRO), diesel range organics (DRO), benzene, toluene, xylenes, and ethylbenzene (BTEX) were not detected. Figure 2 shows the facility's layout and oil /water separator location.

Objectives

The objectives are to determine if there is any soil or ground-water contamination that may be resulting from leakage of the oil/water separator and to determine the ground- water flow direction in the area around the oil/water separator. Data collected from this study will be used by the 89th RSC to determine if the oil/water separators can continue to be used to support the mission of the 89th RSC USAR and to determine if any remedial action is needed.

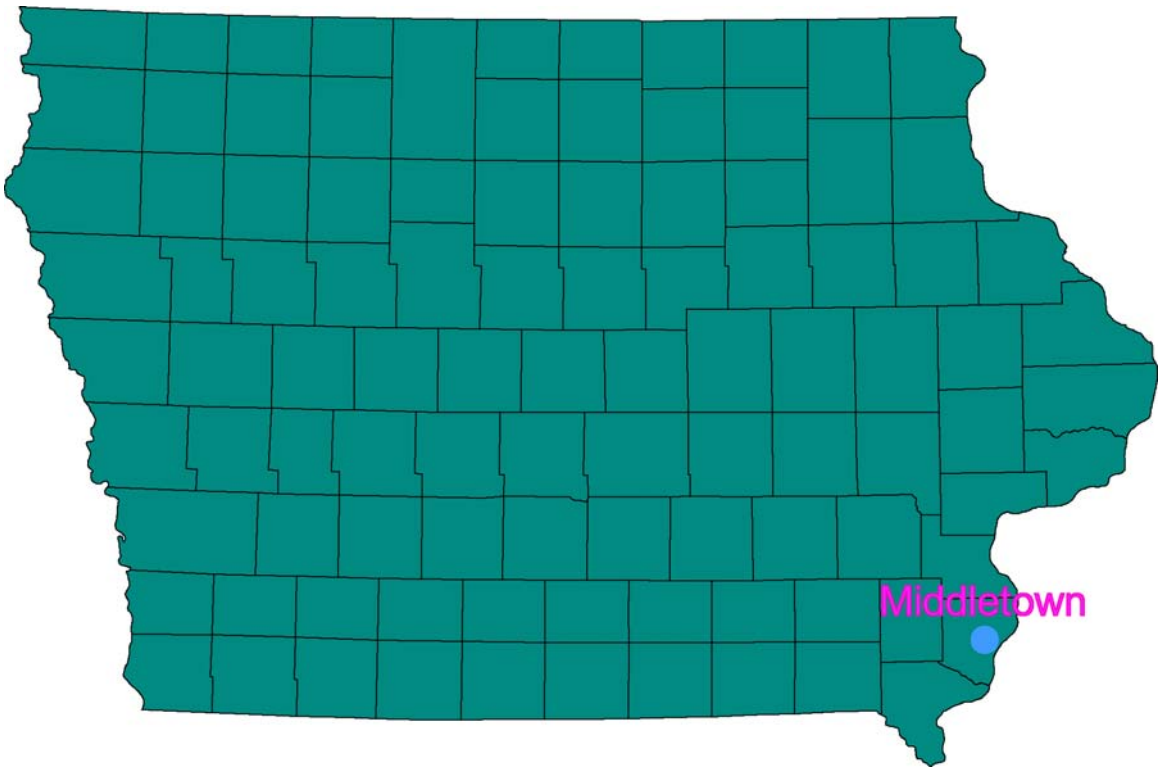


Figure 1: Location of Middletown U.S. Army Reserve Center, Iowa

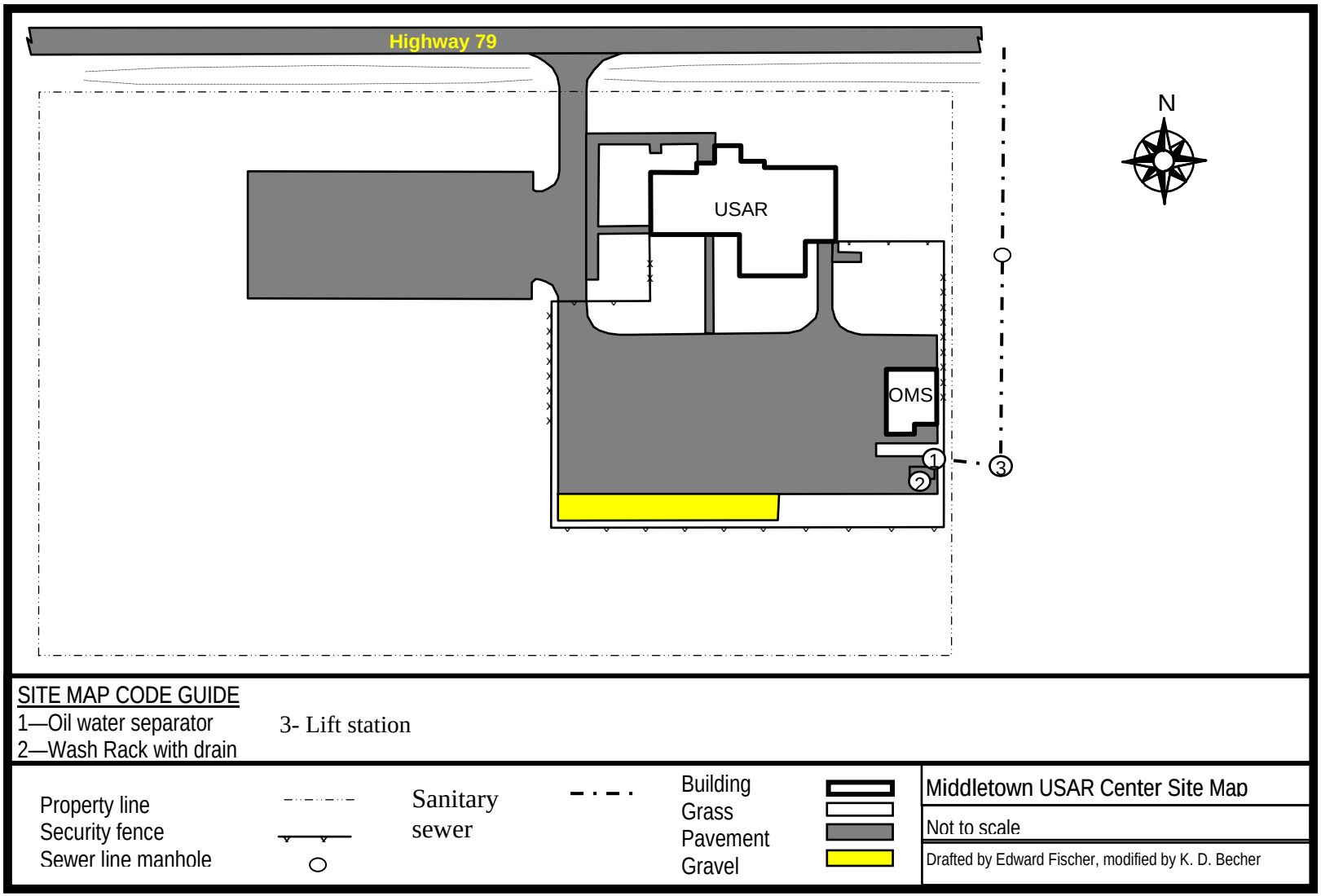


Figure 2: Schematic of U.S. Army Reserve Center in Middletown, Iowa

Hydrogeology

The Middletown USAR facility is located in a landform region called the Southern Iowa Drift Plain in which shallow and surficial deposits were formed by glacial processes. The Southern Iowa Drift Plain is characterized by steeply rolling terrain with moderate relief separated by flat, tabular divides. Surficial material consists of pre-Illinoian glacial deposits mantled by loess. Soils on the lower slopes commonly are derived from till, whereas soils on the higher slopes and upland flats are derived from loess. Alluvium is found in association with streams that form well-developed drainage patterns. Figure 3 shows the location of the Middletown USAR facility on a portion of the USGS 7.5 minute topographic map. The facility lies on the eastern edge of one of the flat tabular divides.

(base: USGS 7.5 Minute Topographic Map, Danville (1981))

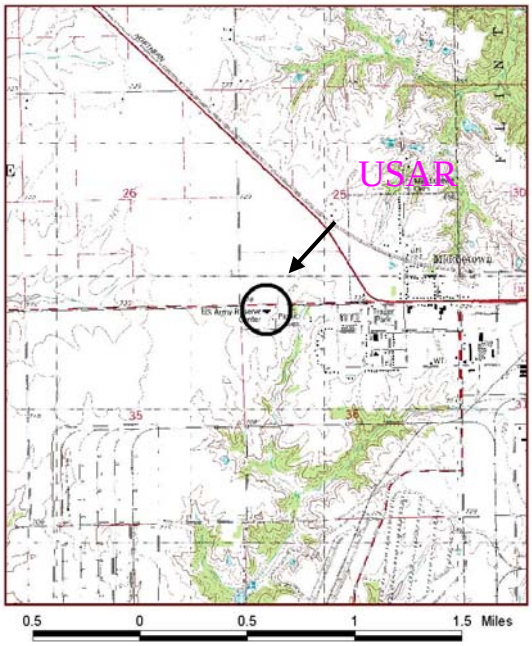


Figure 3: Topographic and location of U.S. Army Reserve Center Middletown, Iowa

METHODS

This section describes the procedures and analytical methods used for soil sampling, well installation, and ground-water samples that were collected at the Middletown, Iowa USAR facility.

Soil Sample Collection

Soil borehole/well locations and target depths were selected at each site based on the results from the Phase I study. Iowa One Call, the underground utility checking service for all of Iowa, was contacted at least 48 hours prior to each site visit, and they coordinated with local utility companies who marked electric, gas, phone, sewer, and water lines near each drilling location.

Soil cores were collected from various depth intervals with a 2-foot steel split-spoon sampler that was inserted into an 8.25-inch outer diameter hollow-stem auger that was powered by a drill rig. The split spoons, hollow-stem augers, and soil sampling equipment were thoroughly decontaminated before each use to ensure potential contamination from previous use was not introduced. The decontamination procedure was conducted as follows: high-pressure hot water spray, washed with Liquinox solution, rinsed using a high-pressure hot water sprayer, and finally rinsed with de-ionized water. New latex gloves were always used while handling the split spoons for each interval to ensure that no cross-contamination could occur. Once the split spoon was cleaned it was attached to the drill rig rod and forced into the ground by using the weight of the rig or from a 150-pound slide hammer. The split spoon was pushed or pounded to a pre-selected depth in 2-foot intervals.

After each target depth and sample interval was reached, the split spoon was then brought to the surface and removed from the drilling rods. The split spoon was opened upwind of the drill rig on a clean table to avoid any contamination from exhaust fumes from the rig. A photo-ionization detector (PID) capable of detecting volatile organic compounds (VOC's) in parts per billion was then scanned across the open core barrel to determine if there was any VOC contamination within the core. A clean stainless-steel knife was used to transfer a composite soil sample from the 2-foot core to the appropriate sample bottles, thus avoiding contact with the gloves. A soil sample was collected from selected cores and placed in a 4-ounce glass jar and 16-ounce glass jar, chilled on ice, and sent to Severn Trent Laboratories in Arvada, Colorado using an overnight air carrier. The laboratory analyzed samples for Gasoline Range Organics (GRO, including BTEX compounds (benzene, ethylbenzene, toluene, and xylenes)) and Diesel Range Organics (DRO). Detailed descriptions of laboratory methods are described in the laboratory methods section of this report. An onsite geologist described detailed lithologies of the soil cores and drill cuttings in a logbook. Sediment type, color, size, sorting, and moisture content were documented as well as any visual staining of the soil or obvious odors. Drill cuttings and left over cores were placed onto tarps and kept onsite until soil test results assured the soil was considered non-hazardous. All tools that were used to handle the soil samples were properly decontaminated before use on the next core sample.

A laboratory chain-of-custody form was completed by project personnel to ensure that samples were analyzed for the correct constituents. The sample ID, date, time, analytical method, and name of sample collector were written on sample bottle labels and placed on the chain-of-custody form. The chain-of-custody form also included the proper contacts at the lab and at the USGS, the type of sample matrix, and any preservatives

used for the samples. Appendix A includes copies of all of the chain-of-custody forms that were submitted to Severn Trent Laboratories.

Well Construction

An 8.25-inch outside diameter hollow-steam auger powered by a drill rig was used to drill to a target depth of about five feet into the water table. Well screens, casing, sand, and bentonite were installed with the augers in place unless the conditions allowed the hole to stay open (high clay content) in which the entire auger assembly was removed before well installation. The drill bit and auger flights were decontaminated between holes following the procedures that were stated previously. No lubricants (with the exception of vegetable oil spray) were used on the joints of the drilling rods or on the augers to avoid any contamination from the drilling process.

A generalized monitor-well construction diagram is shown in figure 4. The total depth of each well was determined by the onsite geologist who based the depth on previous investigations at the site and moisture content of the drill cuttings and cores. The wells were designed to have at least a 2-foot screen interval above the water table to capture the presence of potential light nonaqueous phased liquids (LNAPL's) and to allow for water-table fluctuations. All wells consisted of a screen and casing that was made of 2-inch-diameter flush-jointed polyvinyl chloride (PVC) pipe. Iowa shallow geology usually consists of very-fine grained material; so 10-slot PVC screens were used in the construction of these wells to keep out as many fines as possible in the wells. A 2-inch PVC threaded well cap was attached to the bottom of each screen. PVC well casing was threaded onto the top of the screen to about 6 inches below land surface. A PVC well cap with an air vent was then screwed on top.

A sand pack consisting of fine to medium sand was placed around the screen to at least 2-feet above the screen. The sand pack was course enough, so it would not clog the screen and will act as permeable material to keep formation sediments from entering the well and keep the well centralized within the original borehole. A 2-foot bentonite environmental seal was placed on top of the sand pack to create an impermeable layer. In some cases, natural formation material was backfilled from the top of the bentonite seal to a depth of about 2-feet below the surface. Concrete was placed into the remaining space in the annulus and was used to support a 9-inch diameter steel capped flush mount that was placed over the well. Flush mount installations were used to protect the wells from areas of high traffic in parking lots.

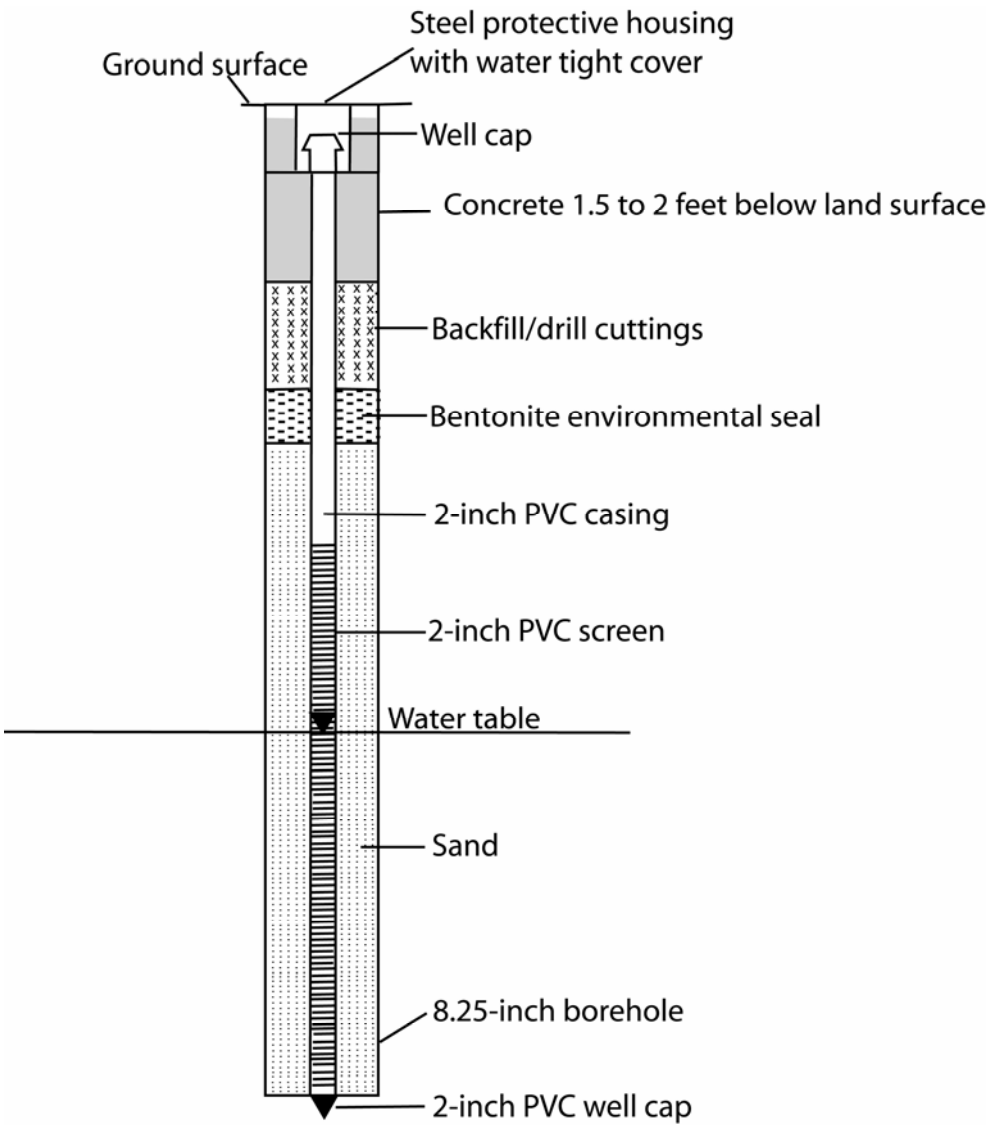


Figure 4: Generalized well-construction diagram

During drilling activities the formation walls are often smeared and clogged with fines, so well development is needed to open up the formation to conditions that represent the natural material. In addition, fines are often introduced to the sand pack and the actual well during construction. A trash pump was used to develop the wells unless the depth of the well was too deep for the trash pump. A bailer was used in the cases where the trash pump was not capable of lifting the well water. The water within the well was agitated with both methods to cause water to go in and out of the sand pack thus removing fines from the sand pack and the well itself. The overall process produces a lower turbidity in the well water.

Surveying the Wells

To get an understanding of the ground-water flow direction, a common vertical datum survey point was established to obtain relative differences in ground-water table elevations between wells. There were no known benchmarks in the nearby vicinity, so a temporary reference point (RP) was established with an arbitrary value of 100 feet. Measuring points (MP) were marked on the top of each well casing. Theses MP's will always be the point from where water-level measurements should be made. A transit level was used to determine the vertical elevation of each ground-water measuring point (MP) by calculating the value of the MP from the newly established RP of 100 feet. A global position system (GPS) unit was used to obtain horizontal coordinates for each well. All vertical elevations and horizontal coordinates were recorded in a field notebook.

Water Sample Collection

An electronic calibrated measuring tape was used to measure the static water level inside the well which was recorded in a field note book A new and clean dedicated bailer with clean bailer rope was lowered into the well until it penetrated the top of the water column. The bailer was then removed and a visual observation was used to determine if there were any LNAPL's within the bailer. Latex gloves were used while bailing to ensure that no cross contamination would occur. Care was taken to ensure that the sampling rope only touched gloved samplers or the inside of the well casing. Based on the depth of the well, current water level within the well, and the diameter of the well, a single well volume could be calculated. Before sampling began, three well volumes were removed from the well using the dedicated bailer to assure fresh formation water in the well. The well was allowed to recover before sampling would begin.

After recovery, a multi-probe down hole measuring device was lowered into the well to the top of the water table to collect the following parameters: pH, specific conductance, water temperature, dissolved oxygen, and oxygen percent saturation. The parameter readings were recorded in the field notebook after the parameters were allowed to stabilize.

The dedicated bailer was also used as the sampling device. Once a full dedicated bailer was brought to the surface a low-flow sampler tip was gently inserted into the bottom of the bailer and the sample was allowed to flow into three 40 mL volatile organic acidified bottles. The bottles were filled slowly at an angle to prevent agitation of the water to prevent loss of the VOC's. After the VOC samples were collected, two 1-liter glass bottles were filled from bailer retrievals for GRO and DRO. All of the sample bottles were chilled on ice, and sent to Severn Trent Laboratories in Arvada, Colorado using an overnight air carrier. The samples were analyzed for BTEX compounds (benzene, ethylbenzene, toluene, and xylenes), GRO, and DRO. Upon completion of sampling the dedicated bailer and bailer rope was inserted back in the well. The top of the

nylon rope was then tied to a hook on the well cap, which suspended the bailer in the well. The well cap was installed and the flush mount cover was bolted on to ensure water would not penetrate into the well.

Laboratory Analysis

Soil and water samples that were collected were delivered to Severn Trent Laboratories for analysis. A quality assurance and quality control (QA/QC) specialist verified that the proper analyses were conducted on each sample. In addition, the QA/QC specialist verified that all of samples that were sent to Severn Trent Laboratories met various QA/QC standards. The QA/QC specialist also noted if the analytical holding times were exceeded. The following sections describe the methods used by the laboratories for analysis for GRO (including BTEX) and DRO.

Gasoline Range Organics

Soil samples from each selected soil core were analyzed for GRO using U.S. Environmental Protection Agency method modified 8015. This method includes the analysis of BTEX compounds. GRO consists of organic compounds with the following general characteristics: alkane range of C_6 to C_{10} and a boiling point range between 60 to 170 degrees Celsius. This method uses a purge and trap procedure. GRO quantification by this method is based on the flame ionization detector response to a gasoline-component standard or commercial gasoline. GRO concentrations are the sum of all the compounds detected within the method range. A photo-ionization detector is used in conjunction with this method to analyze for BTEX compounds that are commonly found in gasoline.

Diesel Range Organics

Modified method 8015 is used to determine the concentration of DRO in soils and water samples. DRO consists of organic compounds with following general characteristics: alkane range of C_{10} to C_{28} and a boiling point between 170 and 430 degrees Celsius. This method uses extraction with methylene chloride for sample preparation and only uses a flame ionization detector. DRO quantification is based on average flame ionization detector response determined from ten components in a diesel-component standard. DRO concentrations are the sum of all of the compounds detected within the method range.

Quality Assurance and Quality Control

Typically, field replicates are collected during sampling. The objective of a replicate sample is to estimate the precision of concentration values from sample processing and analysis. No QA/QC samples were collected at this site, but there were replicates collected at another site that will be reported in a separate report.

RESULTS OF SITE INVESTIGATION

Soil

Soil samples were collected at various depths from each borehole. A PID that is capable of detecting VOC's in parts per billion was used to determine if there was any obvious contamination in each core. No VOC's were detected on site with the PID. Lithologic descriptions of soil cores and drill cuttings were noted in field notebooks. The first attempt at drilling IA019-1 was ended due to drill bit refusal. Crushed limestone and possible buried debris caused refusal during the first hole at about 2 feet in depth. The hole was moved over a few feet and samples were collected from the top interval (0 to 2 feet) and one deeper interval (5 to 7.5) for soil analyses. Crushed limestone fill at other depths impeded the core barrel from retaining soil. Lithology from these points where no core samples were collected was determined from drill cutting logging. Lithology within this area consisted mostly of silts and clays. Table 1 lists the lithology encountered from soil cores and drilling for each well.

No DRO or GRO were detected in any of the soil samples that were collected. Table 2 lists the results of DRO and GRO for each borehole and sample interval. BTEX analysis of soils at this site was planned, but due to a miscommunication no BTEX was collected for the soils at this site. BTEX probably would not have been detected at any high values since no GRO was detected in the soil. BTEX was analyzed on ground-water samples and results are reported in the next section.

Table 1: Lithology of wells drilled at Middletown U.S. Army Reserve Center, Iowa [ft; feet]		
Depth (ft)	**Thickness (ft)**	**Lithology**
Well- IA019-1		
0.0-1.0	1.0	Clay, some silt, tannish green
1.0-1.25	.25	Sand, fine to medium, tan, well sorted
1.25-2.0	.75	Clay, tannish green
2.0-5.0	3.0	Limestone, fill
5.0-7.0	2.0	Clay, gray, includes iron staining towards bottom
7.0-7.5	.50	Clay, black
7.5-10.0	2.5	Clay, slightly silty, tan to grey, wet
10.0-13.5	3.5	Clay, black to greenish blue
Well-IA019-2		
0.0-0.5	0.5	Topsoil, root zone
0.5-1.5	1.0	Silt, clayey, tan
1.5-2.5	1.0	Silt, clayey, dark brown to black, with some oxidation stains
2.5-4.5	2.0	Clay, slightly silty, tan, oxidized
4.5-5.0	0.5	Lost core, no recovery of cuttings
5.0-7.5	2.5	Clay, tannish-green, moist
7.5-9.5	2.0	Clay, some silt, grey, moist
9.5-13.0	4.5	Clay, grey to tan
Well-IA019-3		
0.0-0.5	0.5	Topsoil, brown, root zone
0.5-2.0	1.5	Silt, clayey, organic layers, dry
2.0-5.0	3.0	Clay, silty, greenish with oxidation stains
5.0-7.5	2.5	Clay, silty, brown, oxidation, slightly moist
7.5-10.0	2.5	Clay, silty, black, slightly moist
10.0-12.5	2.5	Clay, brown, wet at 12.5 feet
12.5-17.5	5.0	Clay, medium grey, plastic, wet

Table 2: Analytical results for DRO and GRO of soils at various depths collected at Middletown U.S. Army Reserve Center, Iowa

(ND; no detection, mg/kg; milligrams per kilogram)

Soil sample ID (sample depth interval)	Date	Compounds	Result	Units	Reporting limit
IA019-1-0-2	10/17/2002	Diesel Range Organics	ND	mg/kg	12
IA019-1-0-2	10/17/2002	Gasoline Range Organics	ND	mg/kg	1.5
IA019-1-5-7.5	10/17/2002	Diesel Range Organics	ND	mg/kg	13
IA019-1-5-7.5	10/17/2002	Gasoline Range Organics	ND	mg/kg	1.6
IA019-2-0-2.5	10/17/2002	Diesel Range Organics	ND	mg/kg	13
IA019-2-0-2.5	10/17/2002	Gasoline Range Organics	ND	mg/kg	1.6
IA019-2-2.5-4.5	10/17/2002	Diesel Range Organics	ND	mg/kg	13
IA019-2-2.5-4.5	10/17/2002	Gasoline Range Organics	ND	mg/kg	1.6
IA019-2-5.0-2.5	10/17/2002	Diesel Range Organics	ND	mg/kg	14
IA019-2-5.0-2.5	10/17/2002	Gasoline Range Organics	ND	mg/kg	1.6
IA019-3-0-2	10/16/2002	Diesel Range Organics	ND	mg/kg	12
IA019-3-0-2	10/16/2002	Gasoline Range Organics	ND	mg/kg	1.5
IA019-3-2-5	10/16/2002	Diesel Range Organics	ND	mg/kg	12
IA019-3-2-5	10/16/2002	Gasoline Range Organics	ND	mg/kg	1.5
IA019-3-7.5-10.0	10/16/2002	Diesel Range Organics	ND	mg/kg	12
IA019-3-7.5-10.0	10/16/2002	Gasoline Range Organics	ND	mg/kg	1.5

Ground-water flow direction and quality

Table 3 lists each well number, well location, well construction, reference point surveyed elevation, and well depth. Three wells were installed and sampled. The general ground-water flow direction is to the southeast (figure 5). Field parameter data collected (table 4) from the three wells indicated that there might be some differences in water quality between the wells due to pH, specific conductance, temperature, and dissolved oxygen differences, however, instrumentation problems the day of sampling may be the reason for the differences in pH. The pH values are deemed unreliable at this site. The extremely high pH at IA019-1 has the potential to be correct since there was some limestone fill in that well and the site was a former grease rack and it could have had some detergents used that may caused the pH to rise. An attempt has been made to recheck the pH at this location, but two of the wells are currently covered with ice and snow. The higher specific conductance in IA019-2 may be explainable, because it is the closest well to the oil/water separator. Water coming from the wash rack through the separator could be high in total dissolved solids since vehicles have road salts and other conductive elements washed off them thus increasing the specific conductance. Even though well IA019-2 appears to be mostly cross-gradient from the oil/water separator, there could be a path of preferential ground-water flow that is either natural (small sand layer) or man made. Construction of the sanitary sewer line, lift station, and connection

to the oil/water separator could have provided a conduit for water leaking out of the separator.

There were no detections of DRO, GRO, or BTEX above the method detection limit in the wells sampled; however, two samples contained laboratory estimated detections of DRO below the detection limit.

Table 3: Location, physical characteristics, and water depth for three wells at Middletown U.S. Army Reserve Center, Iowa

Well number	GPS well location	Total depth (feet below land surface	Screen length, 10-slot (feet)	Top of sand (feet below land surface)	Top of bentonite seal (feet below land surface)	Elevation of measuring point from 100 feet surveyed base (feet)	Depth of water table below measuring point (feet)	Elevation of water table based on 100 foot arbitrary reference point
IA019-1	N 40° 49’ 33.9” W 91° 16’ 24.6“	13.5	7.5	5.0	2.0	98.52	4.76	93.76
IA019-2	N 40° 49’ 33.7” W 91° 16’ 23.7“	13.0	7.5	4.2	3.2	99.01	5.32	93.69
IA019-3	N 40° 49’ 32.9” W 91° 16’ 23.6“	17.5	7.5	8.5	3.0	99.48	7.65	91.83

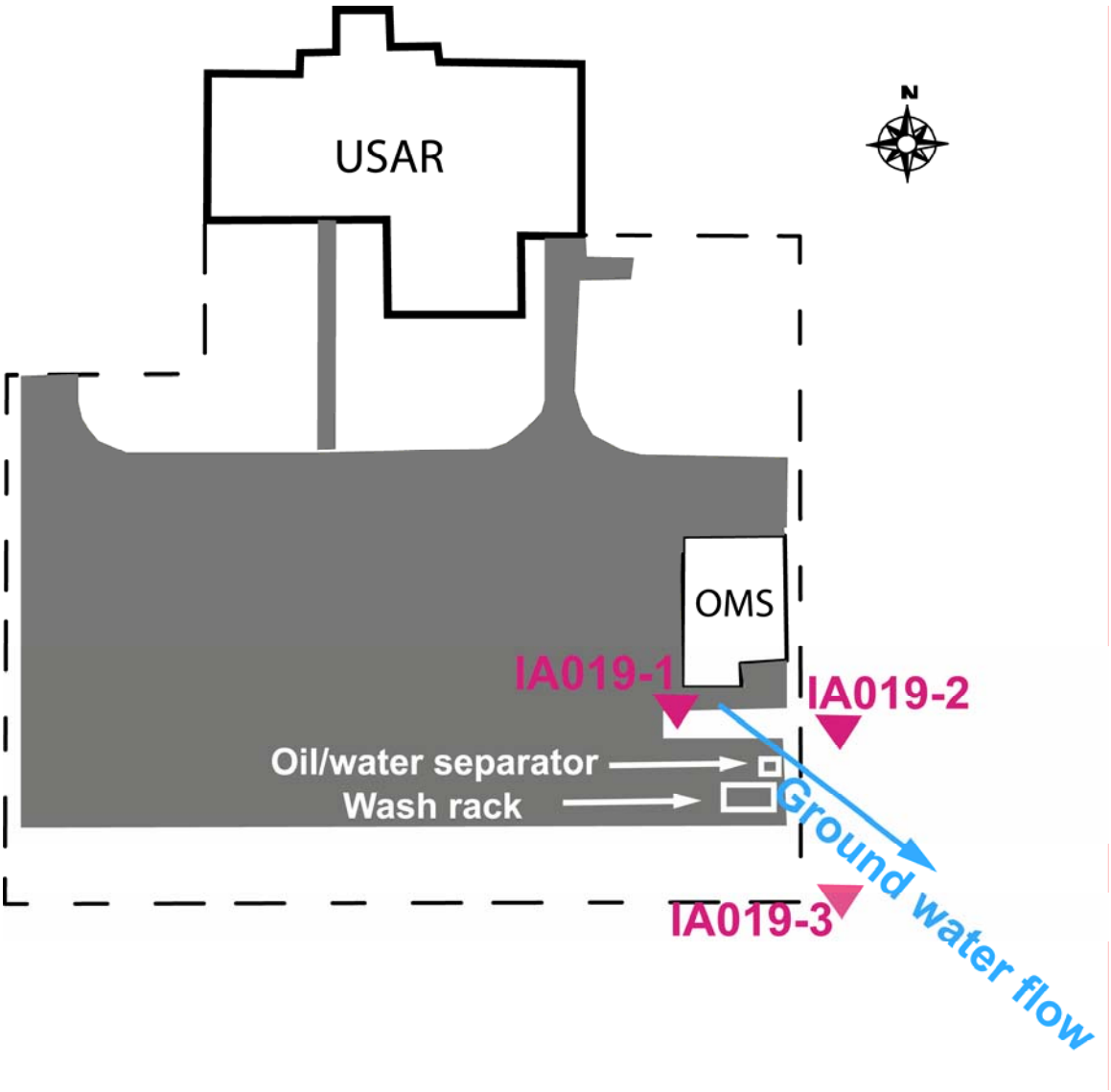


Figure 5: Map showing the location of monitor wells, oil/water separator, wash rack and the general direction of ground water flow.

Table 4: Field parameters collected at wells sample at Middletown U.S. Army Reserve Center, Iowa

[mg/L; milliliters per Liter)

Well number	pH	Temperature (degrees Celsius)	Specific Conductance (microsiemens)	Dissolved oxygen (mg/L)	Dissolved oxygen (percent saturation)	Remarks
IA019-1	10.16	16.5	379	3.55	36.8	Water appeared to effervesce, pH reading is very questionable
IA019-2	6.87	13.8	607	1.32	12.8	pH meter responding slowly, questionable
IA019-3	6.88	13.8	337	2.85	27.6	pH meter responding slowly, questionable

Table 5: Analytical resulst for BTEX, GRO, and DRO of ground water samples collectd at U.S. Army Reserve Center in Middletown, Iowa

[ug/l: micrograms per Liter, mg/L; milligrams per Liter, J; estimated result, result is less than reporting limit]

Ground water sample ID (well number)	Date	Compounds	Result	Units	Reporting limit
IA019-1	11/7/2002	Benzene	ND	ug/L	0.5
IA019-1	11/7/2002	Diesel Range Organics	0.061 **J**	mg/L	0.25
IA019-1	11/7/2002	Ethylbenzene	ND	ug/L	0.5
IA019-1	11/7/2002	Gasoline Range Organics	ND	ug/L	10
IA019-1	11/7/2002	Toluene	ND	ug/L	0.5
IA019-1	11/7/2002	Xylenes (total)	ND	ug/L	0.5
IA019-2	11/7/2002	Benzene	ND	ug/L	0.5
IA019-2	11/7/2002	Diesel Range Organics	0.11 **J**	mg/L	0.25
IA019-2	11/7/2002	Ethylbenzene	ND	ug/L	0.5
IA019-2	11/7/2002	Gasoline Range Organics	ND	ug/L	10
IA019-2	11/7/2002	Toluene	ND	ug/L	0.5
IA019-2	11/7/2002	Xylenes (total)	ND	ug/L	0.5
IA019-3	11/7/2002	Benzene	ND	ug/L	0.5
IA019-3	11/7/2002	Diesel Range Organics	ND	mg/L	0.25
IA019-3	11/7/2002	Ethylbenzene	ND	ug/L	0.5
IA019-3	11/7/2002	Gasoline Range Organics	ND	ug/L	10
IA019-3	11/7/2002	Toluene	ND	ug/L	0.5
IA019-3	11/7/2002	Xylenes (total)	0.5	ug/L	0.5

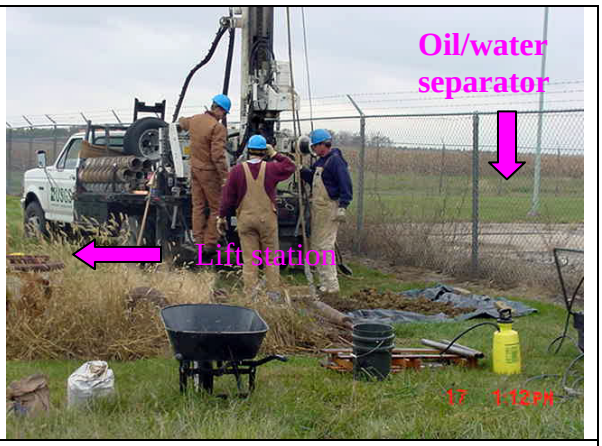
Table 6 lists the soil and ground water BTEX, GRO, and DRO action level criteria from regulations of the Iowa Department of Natural Resources. There were no soil or ground-water samples that exceeded any requirements for clean up.

Table 6: State of Iowa contaminant corrective action levels for soils and ground water according to underground storage tank criteria (Iowa Department of Natural Resources, Underground Storage Tank Section, DNR Tanks, Volume 6, April 1997			
Contaminant	**Action level for soils (mg/kg)**	**Number of soil samples greater than action level**	**Ground water action levels (µg/L)**
Benzene	0.54	0	5.0
Toluene	42	0	1,000
Ethylbenzene	15	0	700
Xylene	No limit	0	10,000
Total Extractable Hydrocarbons (Comparable to DRO)	3,800	0	--
Total Extractable Hydrocarbons (Waste Oil)	--	--	400

SITE PICTURES

Plate 1: Split-spoon sampler being detached while drilling IA019-1

Plate 2: Split-spoon sampler being detached while drilling IA019-1

	
Plate 3: Drilling helper connecting drilling rod.	Plate 4: Drilling well number IA019-2

SUMMARY AND CONCLUSIONS

The oil/water separator that is located at the U.S. Army Reserve Center in Middletown, Iowa was suspected of leaking during a Phase I study during 2001 because of visual observations. The 89th RSC was concerned that there could be ground-water contamination from this leaking oil/water separator and initiated a follow-up Phase II investigation.. Three wells were drilled near the vicinity of the oil/water separator to determine if there was any ground-water contamination occurring from the oil/water separator and to determine the ground-water flow direction. In addition, a split-spoon steel core sampler was used to investigate soils while the wells were being installed. Soil samples were analyzed for GRO (plus BTEX) and DRO at various depths to the water table. No detections of GRO (plus BTEX) or DRO were detected in the soils. Shallow ground-water flow on the southeast corner of the facility is towards the southeast. Ground-water samples were collected from each well and were analyzed for GRO (plus BTEX) and DRO. There were no detections above the detection level of GRO (plus BTEX) or DRO. However, there were two laboratory-estimated values of DRO that were reported below the method reporting level. The soils and ground water at this site do not require any remedial action based on the State's regulations and fall well below any State standard. Based on visual observations of oil/water not being retained in the oil/water separator in the Phase I study and on a high specific conductance in well IA019-2, that the oil/water separator may be leaking, but it is not impairing soil and ground water due to the low volume of use of the wash rack and oil/water separator at this site.

Appendix A

Chain of Custody Forms

[redacted] S.O. of 10/22/02

Chain of Custody Record

SEVERN TRENT SERVICES — Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: USGS - Iowa	Project Manager: Kent Becher	Date: 10/21/02	Chain of Custody Number: 144402
Address: 400 S. Clinton St. Rm 269	Telephone Number (Area Code)/Fax Number: (319) 358-3634	Lab Number	Page 1 of 1
City: Iowa City; State: IA; Zip Code: 52240	Site Contact: Kent Becher; Lab Contact: Kurren Knoppelu		
Project Name and Location (State): Oil - water Separators Iowa	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sled	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): DRO - mod 8015	VOC's	Soil moisture	Special Instructions/ Conditions of Receipt
IA019-3-0-2	10/16/02	0925				X							X	X	X	
IA019-3-2-5	10/16/02	1100				X							X	X	X	
IA019-3-7.5-10.0	10/16/02	1130				X							X	X	X	
IA019-1-0-2	10/17/02	0840				X							X	X	X	
IA019-1-5-7.5	10/17/02	0915				X							X	X	X	
IA019-2-0-2.5	10/17/02	1230				X							X	X	X	
IA019-2-2.5-4.5	10/17/02	1235				X							X	X	X	
IA019-2-5.0-2.5	10/17/02	1300				X							X	X	X	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

1. Relinquished By: Kent D. Becher	Date: 10/21/02	Time: 13:30	1. Received By: [signature]	Date: 10/22/02	Time: 0830
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

5.1°C JH 11/09/02

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: USGS – Iowa	Project Manager: Kent Becher	Date: 11/8/02	Chain of Custody Number: 144419
Address: 400 S. Clinton St.	Telephone Number (Area Code)/Fax Number: (319) 358-3634 (319)358-3606	Lab Number	Page 1 of 1
City: Iowa City; State: IA; Zip Code: 52240	Site Contact: Kent Becher	Lab Contact: Karen Kuoppala	
Project Name and Location (State): oil/water separator	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sled.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): VOC's	Pest 8015-DRO	Special Instructions/ Conditions of Receipt
IA019-1	11/07/02	1045		X						3			3	1	
IA019-2	11/07/02	1115		X						3			3	1	
IA019-3	11/07/02	1330		X						3			3	1	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal: ☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Kent Becher	11/8/02	3:00pm	1. Received By: [signature]	11/9/02	0830
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

United States Department of the Interior

U.S. GEOLOGICAL SURVEY

Water Resources Division
Iowa District
P.O. Box 1230
Iowa City Iowa 52244

October 17, 2005

Mr. Barry McFarland
Environmental Coordinator
U.S. Army Reserve 89th RRC
3130 George Washington Blvd
Wichita, Kansas 67210-1598

Dear Mr. McFarland:

As a part of the Phase II Oil-Water Separator studies conducted between the years 2003 and 2004, thirty small-diameter monitor wells were installed at nine U.S. Army Reserve installations throughout Iowa. In October 2004, the Army's 89th RRC in Wichita, KS requested the USGS remove all Phase II monitor wells. During the period of May 12 to July 27, 2005, thirty monitor wells were plugged in accordance with rules 567-39.8 and 567-110.12(2)a as set forth in the Iowa Administrative Code (IAC). In those instances where the casing could not be extracted, rule 567-110.12(2) was followed for well plugging. When never possible, bentonite was used in place of filling material. All surface casings were removed and replaced with either native soil and grass or cement, depending on well location. Enclosed please find copies of Abandoned Water Well plugging records for the following Phase II Oil-Water Separator monitor wells:

Location	Well Nos	Date plugged	Plugging Method
Ames, IA	IA001-1,-2,-3	5-12-05	567-39.8
Cedar Rapids, IA	IA003-1	7-18-05	567-110.12(2)a
	IA003-2,-3	7-18-05	567-39.8
Council Bluffs, IA	IA007-1,-2,-3,-4	7-27-05	567-110.12(2)a
Decorah, IA	IA010-1,-2,-3,-4	6-30-05	567-110.12(2)a
Middletown, IA	IA019-1,-2,-3	5-18-05	567-39.8
Pocahontas, IA	IA024-1,-2,-3	7-26-05	567-39.8
Sac City, IA	IA025-1,-2,-3	7-26-05	567-39.8
Waterloo, IA	IA030-1,-3	7-07-05	567-39.8
Washington, IA	IA027-1,-2,-3,-4	5-18-05	567-39.8

If you have any questions or desire additional information, please call me at (319) 358-3609.

Sincerely,

Greg Littin
Hydrologist

Enclosure

IA019
Burlington

Iowa Department of Natural Resources

Abandoned Water Well
Plugging Record

1. **Owner**:

Name: USARC 89TH RRC City: WICHITA State: KS
Address: 3130 GEO WASHINGTON BLVD Zip: 67210 Phone: (316) 681-1759

2. **Well (Cistern) Location**:

NE 1/4 of, NW 1/4 of, NW 1/4 of, Section 36, Twp. 70 N, Range 4 West/East (circle one)
DES MOINES County, Describe well location on property: 20 FT SW OF SW CORNER OF OMS BLDG

3. **Description:**

Well depth:	13.5 ft.	Casing material: steel, plastic, concrete, clay, brick, stone (circle one)	
Depth to water:	4.76 ft.		
Casing diameter:	2 in.	Type of construction: drilled, driven, bored, dug, augered (circle one)	
Yr. or decade constrd.:	2002		
Depth of casing:	13.5 ft.	Check ☑ if this is a Monitoring Well	Well I D.: IA019-1

Check ☐ if Cistern depth: _____ ft. diameter: _____ ft.

I certify this well has been plugged as required by rule 567-39.8 of the Iowa Administrative Code (IAC). I agree to provide any additional information the county or department may need concerning this well.

Signature of Owner: _____ Date Plugged: _____

If plugged by certified well contractor, complete this box:

I have plugged this well as required by rule 567-39.8 of the Iowa Administrative Code (IAC).

Signature of Contractor: G. R. Stitu, USGS Cert. No. 7678

OR, If plugged by well owner, complete this box:

The property owner has plugged this well following requirements in rule 567-39.8 of the Iowa Administrative Code with the oversight and assistance of the designated county agent.

Signature of County Agent: _____ Date Approved: _____

Eligible for Grants-to-Counties cost share: ☐ YES ☐ NO (Determined by County Agent)

Complete one form for each well plugged and submit within 30 days to the local county agent:	or, only if no county agent is available, to:
	Water Supply Section **Department of Natural Resources** **900 East Grand Avenue** **Des Moines, IA 50319-0034**

Iowa Department of Natural Resources

Abandoned Water Well
Plugging Record

1. Owner:

Name: USARC 89TH RRC City: WICHITA State: KS
Address: 3130 Geo Washington Blvd Zip: 67210 Phone: (316) 681-1759

2. Well (Cistern) Location:

NE 1/4 of, NW 1/4 of, NW 1/4 of, Section 36, Twp. 70 N, Range 4 West/East (circle one)
DES MOINES County, Describe well location on property: IN GRASSY AREA OUTSIDE COMPOUND FENCE ~ 30 FT SE OF OMS BLDG.

3. Description:

Well depth:	13.0 ft.	Casing material: steel, plastic, concrete, clay, brick, stone (circle one)	
Depth to water:	5.32 ft.		
Casing diameter:	2 in.	Type of construction: drilled, driven, bored, dug, augered (circle one)	
Yr. or decade constrd.:	2002		
Depth of casing:	13.0 ft.	Check ☑ if this is a Monitoring Well	Well I D.: IA019-2

Check ☐ if Cistern depth: _____ ft. diameter: _____ ft.

I certify this well has been plugged as required by rule 567-39.8 of the Iowa Administrative Code (IAC). I agree to provide any additional information the county or department may need concerning this well.

Signature of Owner: _____ Date Plugged: _____

If plugged by certified well contractor, complete this box:

I have plugged this well as required by rule 567-39.8 of the Iowa Administrative Code (IAC).

Signature of Contractor: G. M. Fitton, USGS Cert. No. 7678

OR, If plugged by well owner, complete this box:

The property owner has plugged this well following requirements in rule 567-39.8 of the Iowa Administrative Code with the oversight and assistance of the designated county agent.

Signature of County Agent: _____ Date Approved: _____

Eligible for Grants-to-Counties cost share: ☐ YES ☐ NO (Determined by County Agent)

Complete one form for each well plugged and submit within 30 days to the local county agent:	or, only if no county agent is available, to:
	Water Supply Section **Department of Natural Resources** **900 East Grand Avenue** **Des Moines, IA 50319-0034**

Iowa Department of Natural Resources

Abandoned Water Well
Plugging Record

1. **Owner**:

Name:	USARC 89TH RRC	City:	WICHITA	State:	KS
Address:	3130 GEO WASHINGTON BLVD	Zip:	67210	Phone:	(316) 681-1759

2. **Well (Cistern) Location**:

NE 1/4 of, NW 1/4 of, NW 1/4 of, Section 32, Twp. 70 N, Range 4 West/East (circle one)

DES MOINES County, Describe well location on property: IN GRASSY AREA ~10 FT OUTSIDE SE CORNER OF COMPOUND FENCE

3. **Description:**

Well depth:	17.5 ft.	Casing material:	steel, plastic, concrete, clay, brick, stone (circle one)
Depth to water:	7.65 ft.		
Casing diameter:	2 in.	Type of construction:	drilled, driven, bored, dug, augered (circle one)
Yr. or decade constrd.:	2002		
Depth of casing:	17.5 ft.	Check ☑ if this is a Monitoring Well	Well I D.: IA019-3

Check ☐ if Cistern depth: _____ ft. diameter: _____ ft.

I certify this well has been plugged as required by rule 567-39.8 of the Iowa Administrative Code (IAC). I agree to provide any additional information the county or department may need concerning this well.

Signature of Owner:_____ Date Plugged:_____

If plugged by certified well contractor, complete this box:

I have plugged this well as required by rule 567-39.8 of the Iowa Administrative Code (IAC).

Signature of Contractor: G. R. Fitten, USGS Cert. No. 7678

OR, If plugged by well owner, complete this box:

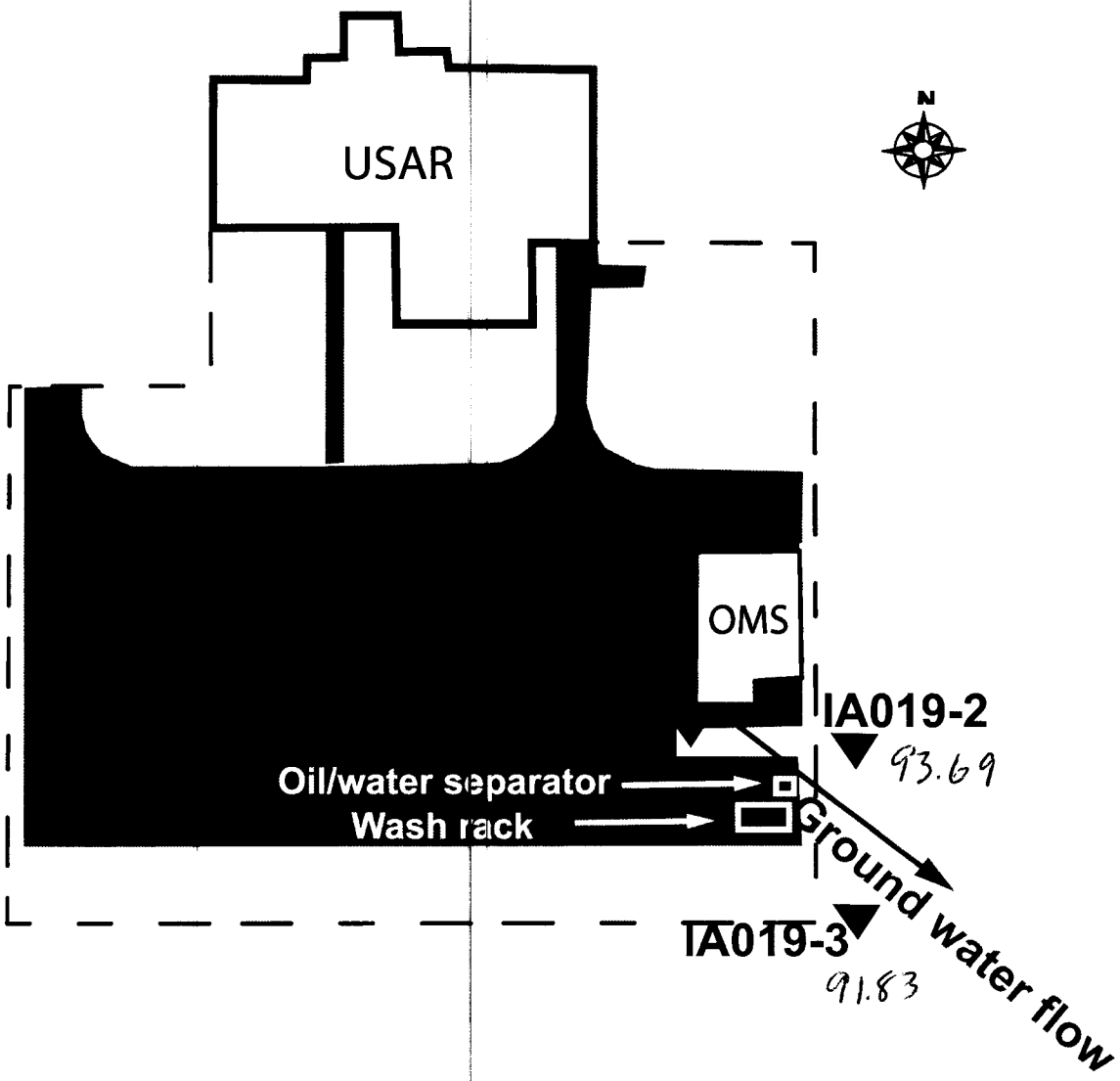
The property owner has plugged this well following requirements in rule 567-39.8 of the Iowa Administrative Code with the oversight and assistance of the designated county agent.

Signature of County Agent:_____ Date Approved:_____

Eligible for Grants-to-Counties cost share: ☐ YES ☐ NO (Determined by County Agent)

Complete one form for each well plugged and submit within 30 days to the local county agent:	or, only if no county agent is available, to:
	Water Supply Section **Department of Natural Resources** **900 East Grand Avenue** **Des Moines, IA 50319-0034**

[redacted]								
IA019-1	N 40° 49' 33.9" W 91° 16' 24.6"	13.5	7.5	5.0	2.0	98.52	4.76	93.76
IA019-2	N 40° 49' 33.7" W 91° 16' 23.7"	13.0	7.5	4.2	3.2	99.01	5.32	93.69
IA019-3	N 40° 49' 32.9" W 91° 16' 23.6"	17.5	7.5	8.5	3.0	99.48	7.65	91.83



Map showing the location of monitor wells, oil/water separator, wash rack and the general direction of ground water flow.

LAWN CARE INFORMATION

POST IN CONSPICUOUS PLACE

NONTRANSFERABLE

STATE OF IOWA

DEPARTMENT OF AGRICULTURE & LAND STEWARDSHIP

DES MOINES

FEE$ 25 PESTICIDE APPLICATOR LICENSE NO. 00 05072 000
PAID

RUBEY LAWN CARE, LLC
BRENDA & JON RUBEY
2942 COUNTRY ACRES DRIVE
DANVILLE, IA 52623-8908

THE AFORESAID, HAVING DEPOSITED THE REQUIRED FEE, IS HEREBY GRANTED THE ABOVE LICENSE PURSUANT TO SECTION 206A, CODE OF IOWA. THIS LICENSE SHALL REMAIN IN FULL FORCE FROM THE DATE OF ISSUE UNTIL ITS EXPIRATION DATE, UNLESS REVOKED OR SUSPENDED FOR CAUSE BY THE SECRETARY OF AGRICULTURE FOR NONCOMPLIANCE WITH IOWA CODE CHAPTER 206 OR RULES PROMULGATED PURSUANT THERETO.

DATE OF ISSUE August 1, 2002.
EXPIRES December 31, 2002.

Patty Judge

SECRETARY OF AGRICULTURE
AND LAND STEWARDSHIP

083105

CLASSIFICATION OF APPLICATORS

AGRI WEED CONTROL	6	RIGHT-OF-WAY PEST CONTROL	
AGRI INSECT CONTROL	7A	GEN & HOUSEHOLD PEST CONTROL	
AGRI CROP DISEASE CONTROL	7B	STRUCTURAL PEST CONTROL	
FRUIT & VEG PEST CONTROL	7C	FUMIGATION	
ANIMAL PEST CONTROL	7D	COMMUNITY INSECT CONTROL	
FOREST PEST CONTROL	7E	WOOD PRESERVATIVES	
ORNAMENTAL AND TURF PEST CONTROL	7F	ANTI-FOULING PAINTS	
TURF PEST CONTROL	8	PUBLIC HEALTH PEST CONTROL	
GREENHOUSE PEST CONTROL	9	REGULATORY PEST CONTROL	
SEED TREATMENT	10	DEMO. & RESEARCH PEST CONTROL	
AQUATIC PEST CONTROL	11	AERIAL APPLICATION	

Punch card out along this line.

RUBEY LAWN CARE, LLC
BRENDA & JON RUBEY
2942 COUNTRY ACRES DRIVE
DANVILLE, IA 52623-8908

IOWA DEPARTMENT OF AGRICULTURE
AND LAND STEWARDSHIP
COMMERCIAL PESTICIDE APPLICATOR

THE UNDERSIGNED APPLICANT IS CERTIFIED TO PURCHASE AND APPLY RESTRICTED USE PESTICIDES ONLY FOR THOSE USES COVERED BY THE CERTIFICATION CODES LISTED BELOW

RUBEY, JON
CERTIFICATE NUMBER 26537
ISSUED 08/01/02
EXPIRES 12/31/04
IOWA CODE 206
CERTIFICATION CODES 10T

Patty Judge
Secretary of Agriculture

009-0666 1/99

Punch card out along this line.

05072 000 S 00
RUBEY LAWN CARE, LLC
2942 COUNTRY ACRES DRIVE
DANVILLE, IA 52623-8908

POST IN CONSPICUOUS PLACE

NONTRANSFERABLE

STATE OF IOWA

DEPARTMENT OF AGRICULTURE & LAND STEWARDSHIP

DES MOINES

FEE$ 25
PAID

PESTICIDE APPLICATOR LICENSE

NO. 00 03345 000

PERFECT IMAGE LAWN CARE
MIKE ENGLISH
22992 HIGHWAY 79
DANVILLE, IA 52623

THE AFORESAID, HAVING DEPOSITED THE REQUIRED FEE, IS HEREBY GRANTED THE ABOVE LICENSE PURSUANT TO SECTION 206, CODE OF IOWA. THIS LICENSE SHALL REMAIN IN FULL FORCE FROM THE DATE OF ISSUE UNTIL ITS EXPIRATION DATE, UNLESS REVOKED OR SUSPENDED FOR CAUSE BY THE SECRETARY OF AGRICULTURE, FOR NONCOMPLIANCE WITH IOWA CODE CHAPTER 206 OR RULES PROMULGATED PURSUANT THERETO.

DATE OF ISSUE February 22, 2006.
EXPIRES December 31, 2006.

Patty Judge

SECRETARY OF AGRICULTURE
AND LAND STEWARDSHIP

This sample label is current as of 8/27/99. The product descriptions and recommendations provided in this sample label are for background information only. Always refer to the label on the product before using Monsanto or any other agrichemical product.

21183Y2-1/CG

TRANSORB

Roundup ULTRAMAX™ HERBICIDE

Complete Directions for Use

EPA Reg. No. 524-512

HERBICIDE FOR ROUNDUP READY® CROPS. Selective, broad-spectrum weed control in Roundup Ready crops. Non-selective, broad-spectrum weed control for many cropping systems, farmsteads, and Conservation Reserve Program acres.

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS (EXCEPT AS SPECIFIED FOR INDIVIDUAL ROUNDUP READY CROPS), DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

Roundup UltraMAX, TranSorb, Monsanto and the Vine symbol are trademarks and Roundup Ready is a registered trademark of Monsanto Company.

2000-1

Read the entire label before using this product.

Use only according to label instructions.

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

Read the "LIMIT OF WARRANTY AND LIABILITY" statement at the end of the label before buying or using. If terms are not acceptable, return at once unopened.

THIS IS AN END-USE PRODUCT. MONSANTO DOES NOT INTEND AND HAS NOT REGISTERED IT FOR REFORMULATION. SEE INDIVIDUAL CONTAINER LABEL FOR REPACKAGING LIMITATIONS.

1.0 INGREDIENTS

ACTIVE INGREDIENT:

*Glyphosate, N-(phosphonomethyl) glycine, in the form of its isopropylamine salt 50.2%

OTHER INGREDIENTS: 49.8%

100.0%

*Contains 600 grams per litre or 5 pounds per U.S. gallon of the active ingredient glyphosate, in the form of its isopropylamine salt.

This product is protected by U.S. Patent No. 4,405,531 and by U.S. Patent No. 5,703,015. Other patents pending. No license granted under any non-U.S. patent(s).

2.0 IMPORTANT PHONE NUMBERS

1. FOR PRODUCT INFORMATION OR ASSISTANCE IN USING THIS PRODUCT, CALL TOLL-FREE.

   1-800-332-3111

2. IN CASE OF AN EMERGENCY INVOLVING THIS PRODUCT, OR FOR MEDICAL ASSISTANCE, CALL COLLECT, DAY OR NIGHT.

   (314) 694-4000

3.0 PRECAUTIONARY STATEMENTS

3.1 Hazards to Humans and Domestic Animals

Keep out of reach of children.

CAUTION!

CAUSES MODERATE EYE IRRITATION.

Avoid contact with eyes or clothing.

FIRST AID: IF IN EYES, flush with plenty of water. Get medical attention if irritation persists.

DOMESTIC ANIMALS: This product is considered to be relatively nontoxic to dogs and other domestic animals; however, ingestion of this product or large amounts of freshly sprayed vegetation may result in temporary gastrointestinal irritation (vomiting, diarrhea, colic, etc.). If such symptoms are observed, provide the animal with plenty of fluids to prevent dehydration. Call a veterinarian if symptoms persist for more than 24 hours.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear: long-sleeved shirt and long pants, shoes plus socks. Follow manufacturer's instructions for cleaning/maintaining PPE (Personal Protective Equipment). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

3.2 Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

3.3 Physical or Chemical Hazards

Spray solutions of this product should be mixed, stored and applied using only stainless steel, aluminum, fiberglass, plastic or plastic-lined steel containers.

DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulations.

APPENDIX E
BURLINGTON MEMORIAL USAR CENTER
IA 019

EDR REPORTS

The EDR Radius Map
with GeoCheck®

BURLINGTON MEMORIAL USARC
17879 HIGHWAY 79
MIDDLETOWN, IA 52638

Inquiry Number: 01715536.177r

July 14, 2006

EDR® Environmental Data Resources Inc

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

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GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

17879 HIGHWAY 79
MIDDLETOWN, IA 52638

COORDINATES

Latitude (North):	40.827100 - 40˚ 49' 37.6''
Longitude (West):	91.274400 - 91˚ 16' 27.8''
Universal Tranverse Mercator:	Zone 15
UTM X (Meters):	645511.3
UTM Y (Meters):	4520785.0
Elevation:	723 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	40091-G3 DANVILLE, IA
Most Recent Revision:	1981

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
U S ARMY RESERVE CENTER 17879 HWY 79 MIDDLETOWN, IA 52638	RCRA-SQG FINDS	IA0000601021

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

Proposed NPL..... Proposed National Priority List Sites
Delisted NPL..... National Priority List Deletions
NPL RECOVERY..... Federal Superfund Liens

EXECUTIVE SUMMARY

CERC-NFRAP CERCLIS No Further Remedial Action Planned
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
FUDS Formerly Used Defense Sites
US BROWNFIELDS A Listing of Brownfields Sites
CONSENT Superfund (CERCLA) Consent Decrees
UMTRA Uranium Mill Tailings Sites
ODI Open Dump Inventory
TRIS Toxic Chemical Release Inventory System
TSCA Toxic Substances Control Act
FTTS FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
SSTS Section 7 Tracking Systems
ICIS Integrated Compliance Information System
PADS PCB Activity Database System
MLTS Material Licensing Tracking System
MINES Mines Master Index File
RAATS RCRA Administrative Action Tracking System

STATE AND LOCAL RECORDS

SHWS Registry of Hazardous Waste or Hazardous Substance Disposal Sites
SWF/LF Permitted Solid Waste Management Facilities
LAST Leaking Aboveground Storage Tank Sites
AST Aboveground Storage Tank Sites
SPILLS Spills Database
INST CONTROL Sites with Institutional Controls
VCP Land Recycling Program Sites
DRYCLEANERS Iowa Drycleaner List
BROWNFIELDS Brownfields Site Listing
AIRS Minor and Title V Sources Listing

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.

EXECUTIVE SUMMARY

FEDERAL RECORDS

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 04/19/2006 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
IOWA ARMY AMMUNITION PLANT	***17571 STATE HWY 79***	***0 - 1/8 E***	***0***	***6***

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System 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.

A review of the CERCLIS list, as provided by EDR, and dated 02/01/2006 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
IOWA ARMY AMMUNITION PLANT	***17571 STATE HWY 79***	***0 - 1/8 E***	***0***	***6***

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 03/15/2006 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
IOWA ARMY AMMUNITION PLANT	***17571 STATE HWY 79***	***0 - 1/8 E***	***0***	***6***

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-TSDF list, as provided by EDR, and dated 03/09/2006 has revealed that there is 1 RCRA-TSDF site within approximately 0.5 miles of the target property.

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
IOWA ARMY AMMUNITION PLANT	***17571 STATE HWY 79***	***0 - 1/8 E***	***0***	***6***

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-LQG list, as provided by EDR, and dated 03/09/2006 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
IOWA ARMY AMMUNITION PLANT	***17571 STATE HWY 79***	***0 - 1/8 E***	***0***	***6***

DOD: 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.

A review of the DOD list, as provided by EDR, and dated 12/31/2004 has revealed that there is 1 DOD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
IOWA ARMY AMMUNITION PLANT		0 - 1/8 S	0	6

RODS: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, and dated 04/13/2006 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
IOWA ARMY AMMUNITION PLANT	***17571 STATE HWY 79***	***0 - 1/8 E***	***0***	***6***

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 Department of Natural Resources' Underground Storage Tank Data list.

A review of the LUST list, as provided by EDR, and dated 04/27/2006 has revealed that there is 1 LUST

site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
IOWA ARMY AMMUNITION PLANT Lust Current: No Action Required	17571 STATE HIGHWAY 79	1/8 - 1/4 E	A2	29

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 Department of Natural Resources' Underground Storage Tank Data list.

A review of the UST list, as provided by EDR, and dated 04/27/2006 has revealed that there are 2 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
IOWA ARMY AMMUNITION PLANT	***17571 STATE HWY 79***	***0 - 1/8 E***	***0***	***6***

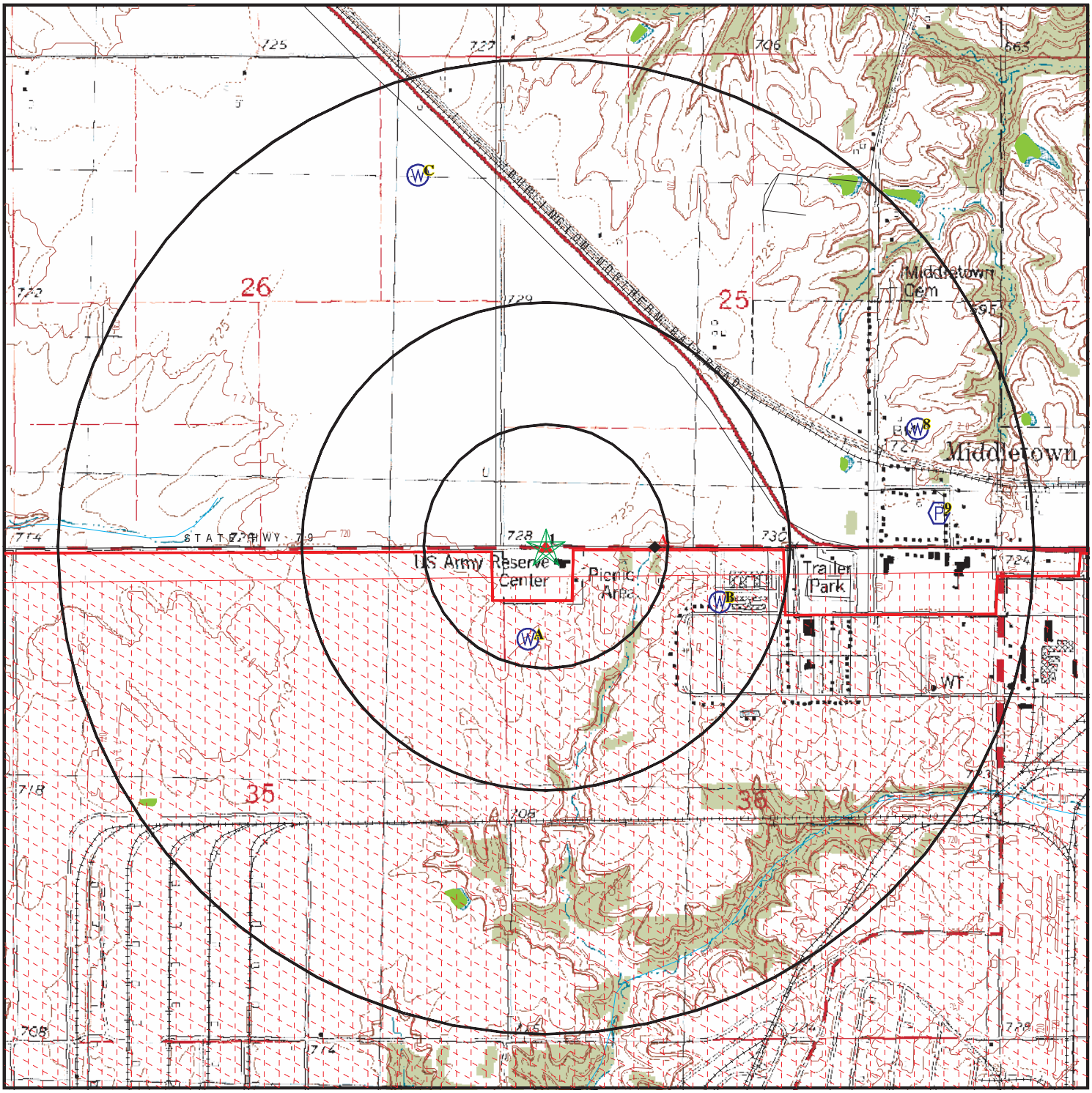
Lower Elevation	Address	Dist / Dir	Map ID	Page
IOWA ARMY AMMUNITION PLANT	17571 STATE HIGHWAY 79	1/8 - 1/4 E	A3	36

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
DANVILLE MILL & SUPPLY CO	RCRA-SQG, CERC-NFRAP, SSTS
CASEY'S GENERAL STORE	LUST, UST
MIDDLETOWN POST OFFICE	LUST

OVERVIEW MAP - 01715536.177r



- 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: BURLINGTON MEMORIAL USARC	CLIENT: FMSM Engineers
ADDRESS: 17879 HIGHWAY 79	CONTACT: Robert Newman
MIDDLETOWN IA 52638	INQUIRY #: 01715536.177r
LAT/LONG: 40.8271 / 91.2744	DATE: July 14, 2006

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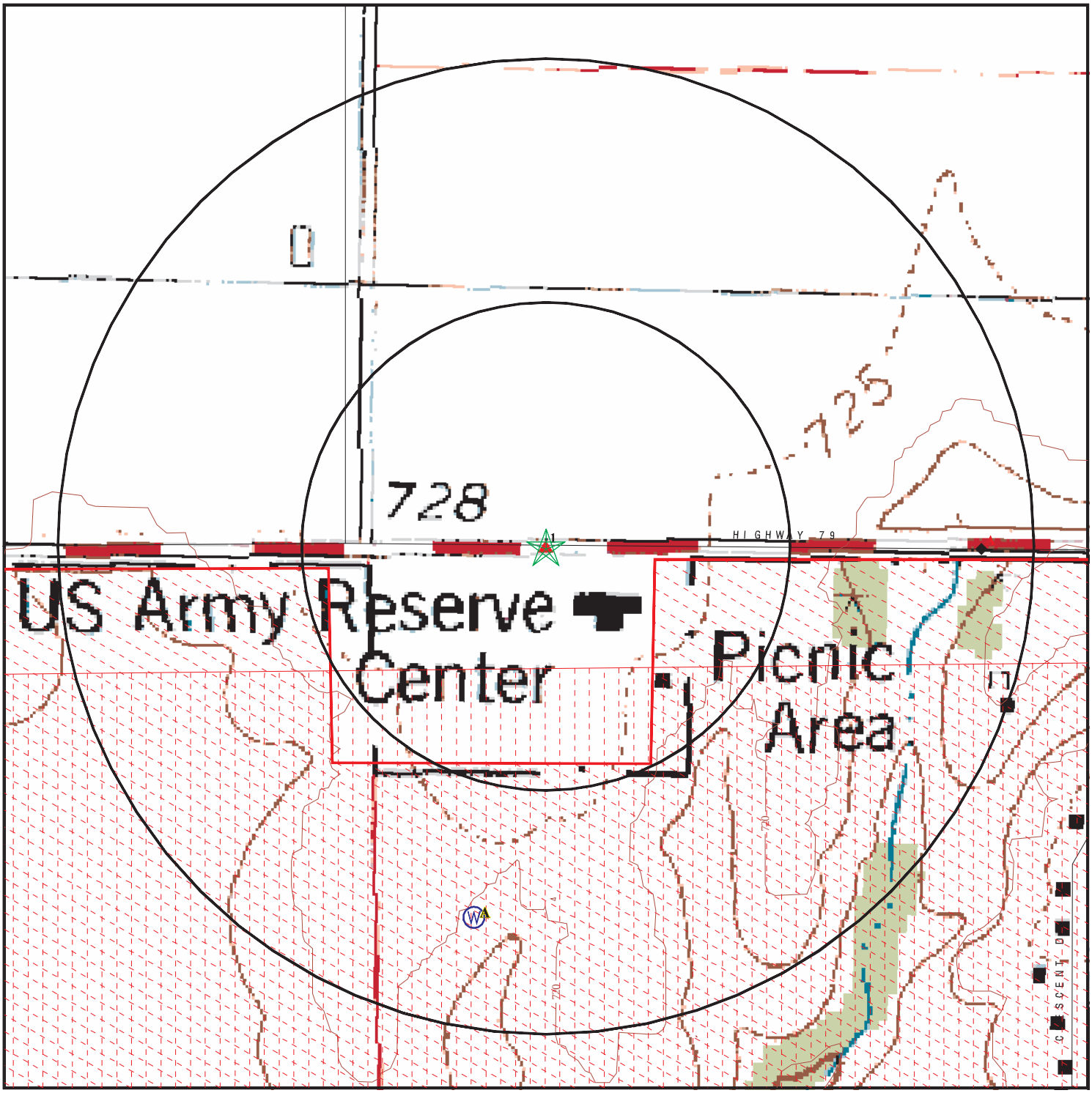
DETAIL MAP - 01715536.177r



- 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

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: BURLINGTON MEMORIAL USARC	CLIENT: FMSM Engineers
ADDRESS: 17879 HIGHWAY 79 MIDDLETOWN IA 52638	CONTACT: Robert Newman INQUIRY #: 01715536.177r
LAT/LONG: 40.8271 / 91.2744	DATE: July 14, 2006

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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	1	0	0	0	NR	1
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	1	0	0	NR	NR	1
CERC-NFRAP		0.500	0	0	0	NR	NR	0
CORRACTS		1.000	1	0	0	0	NR	1
RCRA TSD		0.500	1	0	0	NR	NR	1
RCRA Lg. Quan. Gen.		0.250	1	0	NR	NR	NR	1
RCRA Sm. Quan. Gen.	X	0.250	0	0	NR	NR	NR	0
ERNS		TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
DOD		1.000	1	0	0	0	NR	1
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	1	0	0	0	NR	1
UMTRA		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
FINDS	X	TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
STATE AND LOCAL RECORDS								
State Haz. Waste		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
LUST		0.500	0	1	0	NR	NR	1
UST		0.250	1	1	NR	NR	NR	2
LAST		0.500	0	0	0	NR	NR	0
AST		0.250	0	0	NR	NR	NR	0
SPILLS		TP	NR	NR	NR	NR	NR	0
INST CONTROL		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
BROWNFIELDS		0.500	0	0	0	NR	NR	0
AIRS		TP	NR	NR	NR	NR	NR	0
TRIBAL RECORDS								
INDIAN RESERV		1.000	0	0	0	0	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
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

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
1 **Target Property** **Actual: 723 ft.**	**U S ARMY RESERVE CENTER** **17879 HWY 79** **MIDDLETOWN, IA 52638**	**RCRA-SQG** **FINDS**	**1001493042** **IA0000601021**

RCRAInfo:
Owner: 89TH ARMY RESERVE COMMAND
(316) 681-1759
EPA ID: IA0000601021

Contact: Not reported

Classification: Conditionally Exempt Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

DOD **Region South** **< 1/8** **330 ft.**	**IOWA ARMY AMMUNITION PLANT** **IOWA ARMY AMMUNITION PLAN (County), IA**	**DOD**	**CUSA025965** **N/A**

FEDERAL LANDS:

Feature 1:	Army DOD
Feature 2:	Not reported
Feature 3:	Not reported
Agency:	DOD
URL:	Not reported
Name 1:	Iowa Army Ammunition Plant
Name 2:	Not reported
Name 3:	Not reported
State:	IA

NPL **Region East** **< 1/8** **298 ft.**	**IOWA ARMY AMMUNITION PLANT** **17571 STATE HWY 79** **MIDDLETOWN, IA 52638**	**PADS** **CERCLIS** **FINDS** **NPL** **RCRA-LQG** **RCRA-TSDF** **UST** **RAATS** **CORRACTS** **ROD** **NY MANIFEST** **WI MANIFEST**	**1000141617** **IA7213820445**

CERCLIS Classification Data:

Federal Facility:	Federal Facility
Non NPL Status:	Not reported
NPL Status:	Currently on the Final NPL
Site Description:	The Iowa Army Ammunition Plant (IAAAP) is a load, assemble, and pack (LAP) munitions facility located in Middletown, a rural area of eastern Iowa. The IAAAP is approximately 19,000 acres. Approximately 8,000 acres are leased for agricultural use, about 7,500 acres are

IOWA ARMY AMMUNITION PLANT (Continued) **1000141617**

forested, and the remaining area is used for administrative and industrial operations. The IAAAP contains four watersheds: Brush Creek, Spring Creek, Long Creek, and the 85-acre George H. Mathes Lake. Use of this lake by the p lant as a water source was discontinued in January 1977. The IAAAP produced munitions for World War II from the plant's inception in September 1941 until August 1945, and munitions for military activities in southeast Asia in the 1960s and ea rly 1970s. Activities at the IAAAP continued at a reduced level during peacetime. The plant was operated from 1941-1946 by Day & Zimmerman Corporation. The former Atomic Energy Commission operated at Line 1 from 1948 through mid-1975, at which tim e operation reverted to U.S. Army (Army) control. The Army continues to own the IAAAP, which has been operated by the private contractor Mason & Hanger Corporation since 1951. The IAAAP currently is producing LAP munitions, including projectiles, m ortar rounds, warheads, demolition charges, anti-tank mines, anti-personnel mines, and the components of these munitions, including primers, detonators, fuses, and boosters. The primary source of contamination at the site is attributable to p ast operating practices in which explosives-contaminated wastewaters and sludges were discharged to uncontrolled, on-site lagoons and impoundments. Additional sources of contamination include open burning of explosive materials and munitions, and la ndfilling of waste material. The Army, as an agency within the Department of Defense (DOD), is the lead agency for implementing the interim remedial action at the IAAAP. As the support agency, the Environmental Protection Agency (EPA) overs
ees cleanup activities conducted by the Army. The EPA and the Army signed a Federal Facilities Agreement (FFA) for site cleanup, which became effective in December 1990, following public comment. The State of Iowa has declined to participate as a signatory party to this FFA. The IAAAP has been divided into a Soils Operable Unit (OU) as OU1, a Groundwater OU as OU3, and an Installation-Wide OU as OU4 to facilitate management of contamination at the site. OU1 addresses contamination in the soils. OU3 addresses contamination of groundwater within the IAAAP boundaries and potentially off site. OU4 addresses other unacceptable risks not addressed in either OU1 or OU3. OU2 was originally established for the soils interim action, b ut was subsequently merged into OU1 for simplicity and completeness. Numerous investigations have been conducted at the site by the Army from 1975 to the present to investigate soil and groundwater contamination. Based on data collected at the site, the Army has initiated response actions at the IAAAP to address soil contamination at several areas across the IAAAP. These actions are documented in several Action Memoranda from 1995 through 1997. During removal actions completed at th e former Line 1 impoundment and the Line 800 pinkwater lagoon, cumulative risk levels were determined for soils. Soils with the highest contaminant concentrations were excavated and stockpiled in a lined storage facility known as a Corrective Action Management Unit (CAMU) for subsequent treatment. Moderately contaminated soils were excavated and disposed in an on-site Soil Repository. Lightly contaminated soils were disposed under the synthetic cap of the Inert Landfill on-site. An Interim A ction Record of Decision (ROD) signed in March 1998 calls for the temporary stockpiling, for future treatment, of the most highly contaminated soils remaining at IAAAP. The Final ROD, signed in September 1998, presents the remedial action intended

IOWA ARMY AMMUNITION PLANT (Continued) **1000141617**

to provide for treatment and ultimate disposal of contaminated soils.

CERCLIS Assessment History:

Assessment:	DISCOVERY	Completed:	10/01/1979
Assessment:	PRELIMINARY ASSESSMENT	Completed:	10/01/1979
Assessment:	SITE INSPECTION	Completed:	03/01/1981
Assessment:	HRS PACKAGE	Completed:	04/10/1984
Assessment:	HRS PACKAGE	Completed:	04/26/1988
Assessment:	PROPOSAL TO NPL	Completed:	07/14/1989
Assessment:	FINAL LISTING ON NPL	Completed:	08/30/1990
Assessment:	IAG NEGOTIATIONS	Completed:	09/20/1990
Assessment:	FEDERAL INTERAGENCY AGREEMENT	Completed:	09/30/1991
Assessment:	ENGINEERING EVAL/COST ANALYSIS	Completed:	10/26/1992
Assessment:	FF REMOVAL	Completed:	03/11/1993
Assessment:	FF REMOVAL	Completed:	11/08/1993
Assessment:	FF REMOVAL	Completed:	03/07/1994
Assessment:	ENGINEERING EVAL/COST ANALYSIS	Completed:	10/18/1994
Assessment:	ENGINEERING EVAL/COST ANALYSIS	Completed:	10/18/1994
Assessment:	STATE SUPPORT AGENCY COOP AGREEMENT	Completed:	01/03/1995
Assessment:	FF REMOVAL	Completed:	06/30/1995
Assessment:	FF REMOVAL	Completed:	07/24/1996
Assessment:	FF REMOVAL	Completed:	12/31/1996
Assessment:	FF FS	Completed:	05/22/1997
Assessment:	FF REMOVAL	Completed:	12/31/1997
Assessment:	RECORD OF DECISION	Completed:	03/04/1998
Assessment:	RECORD OF DECISION	Completed:	09/29/1998
Assessment:	FF RI/FS	Completed:	03/31/1999
Assessment:	FF REMOVAL	Completed:	08/01/1999
Assessment:	HEALTH ASSESSMENT	Completed:	12/28/1999
Assessment:	FF REMOVAL	Completed:	10/15/2001
Assessment:	FF RI	Completed:	05/09/2003
Assessment:	FF FS	Completed:	08/08/2005
Assessment:	RECORD OF DECISION	Completed:	08/08/2005

CERCLIS Site Status:

Not reported

CERCLIS Alias Name(s):

IOWA ARMY AMMUNITION PLANT

CORRACTS Data:

EPA Id:	IA7213820445
Region:	07
Area Name:	ENTIRE FACILITY
Actual Date:	01/28/1992
Corrective Action:	CA075HI - CA Prioritization, Facility or area was assigned a high corrective action priority
2002 NAICS Title:	Ammunition (except Small Arms) Manufacturing

EPA Id:	IA7213820445
Region:	07
Area Name:	ENTIRE FACILITY
Actual Date:	08/20/1992
Corrective Action:	CA225NR - Stabilization Measures Evaluation, This facility is , not amenable to stabilization activity at the, present time for reasons other than (1) it appears to be technically, infeasible or inappropriate (NF) or (2) there is a lack of technical, information (IN). Reasons for this conclusion may be the status of, closure at the facility, the degree of risk, timing considerations, the status of corrective action work at the facility, or other, administrative considerations

IOWA ARMY AMMUNITION PLANT (Continued) **1000141617**

2002 NAICS Title: Ammunition (except Small Arms) Manufacturing

EPA Id: IA7213820445
Region: 07
Area Name: ENTIRE FACILITY
Actual Date: 09/30/1987
Corrective Action: CA070YE - RFA Determination Of Need For An RFI, RFI is Necessary
2002 NAICS Title: Ammunition (except Small Arms) Manufacturing

EPA Id: IA7213820445
Region: 07
Area Name: ENTIRE FACILITY
Actual Date: 09/30/1987
Corrective Action: CA050 - RFA Completed
2002 NAICS Title: Ammunition (except Small Arms) Manufacturing

EPA Id: IA7213820445
Region: 07
Area Name: ENTIRE FACILITY
Actual Date: 11/08/1989
Corrective Action: CA100 - RFI Imposition
2002 NAICS Title: Ammunition (except Small Arms) Manufacturing

Click this hyperlink while viewing on your computer to access
1 additional CORRACTS record(s) in the EDR Site Report.

NPL:
EPA ID: IA7213820445
Region: 07
Federal: Federal
Final Date: 08/30/1990

EPA ID: IA7213820445
Region: 07
Federal: Federal
Final Date: 08/30/1990

Category Details:
Site ID: Not reported
NPL Status: Currently on the Final NPL
Categ. Description: Depth To Aquifer-<= 10 Feet
Categ. Value: 8

Site ID: Not reported
NPL Status: Currently on the Final NPL
Categ. Description: Distance To Nearest Population-> 0 And <= 1/4 Mile
Categ. Value: 10

Site Details:
Site Name: IOWA ARMY AMMUNITION PLANT
Site Status: Final
Status Date: 08/30/1990
Site City: MIDDLETOWN
Site State IA
Federal Site: Federal Facility
HRS Score: 29.73
GW Score: 51.02
SW Score: 6.55
Air Score: Not reported
Soil Score: Not reported

IOWA ARMY AMMUNITION PLANT (Continued) **1000141617**

DC Score:	Not reported
FE Score:	Not reported
Site Name:	IOWA ARMY AMMUNITION PLANT
Site Status:	Final
Status Date:	08/30/1990
Site City:	MIDDLETOWN
Site State	IA
Federal Site:	Federal Facility
HRS Score:	29.85
GW Score:	51.02
SW Score:	8.00
Air Score:	Not reported
Soil Score:	Not reported
DC Score:	Not reported
FE Score:	Not reported

Substance Details:

Site ID:	Not reported
NPL Status:	Currently on the Final NPL
Substance ID:	C365
CAS #:	118-96-7
Substance:	TRINITROTOLUENE (TNT)
Pathway:	GROUND WATER PATHWAY
Scoring:	2
Site ID:	Not reported
NPL Status:	Currently on the Final NPL
Substance ID:	C399
CAS #:	121-82-4
Substance:	RDX (CYCLOTRIMETHYLENETRINITRAMINE)
Pathway:	GROUND WATER PATHWAY
Scoring:	2
Site ID:	Not reported
NPL Status:	Currently on the Final NPL
Substance ID:	C546
CAS #:	25321-14-6
Substance:	DINITROTOLUENE
Pathway:	GROUND WATER PATHWAY
Scoring:	2
Site ID:	Not reported
NPL Status:	Currently on the Final NPL
Substance ID:	D008
CAS #:	7439-92-1
Substance:	LEAD (PB)
Pathway:	GROUND WATER PATHWAY
Scoring:	3
Site ID:	Not reported
NPL Status:	Currently on the Final NPL
Substance ID:	D008
CAS #:	7439-92-1
Substance:	LEAD (PB)
Pathway:	SURFACE WATER PATHWAY
Scoring:	3
Site ID:	Not reported
NPL Status:	Currently on the Final NPL
Substance ID:	Not reported

IOWA ARMY AMMUNITION PLANT (Continued) **1000141617**

CAS #: Not reported
Substance: Not reported
Pathway: Not reported
Scoring: Not reported

Summary Details:

" Conditions at proposal (July 14, 1989): The Iowa Army Ammunition Plant (IAAP) covers 19,127 acres in rural Des Moines County near Middletown, Iowa, approximately 10 miles west of Burlington. IAAP's primary mission since 1941 and intermit
tently to the present has been to load, assemble, and pack a variety of conventional ammunitions and fusing systems. The current operating contractor is Mason and Hanger-Silas Mason Co., Inc. Wastes produced at IAAP consist of various e
xplosive- containing sludges, waste water, and solids; lead-containing sludges; ashes from incineration and open burning of explosives; and waste solvent from industrial and laboratory operations. The explosives include trinitrotoluene (TNT), d
initrotoluene (DNT), and cyclomethylenetrinitramine (RDX). Past operations generated waste pesticides, radioactive wastes that have been removed from the site, and incendiaries. IAAP is participating in the Installation Restoration Progr
am (IRP), established in 1978. Under this program, the Department of Defense seeks to identify, investigate, and clean up contamination from hazardous materials. As part of IRP, the Army has identified a number of potentially contaminated area
s, including a now-unused 4-acre settling lagoon at Line 800 (known as the Line 800 Pink Water Lagoon), which received explosive-containing waste water intermittently during 1943-70. It now holds an estimated 37,000 cubic yards of hazardous sl
udges. A second area under investigation involves an earthen and concrete dam across Brush Creek, which was used during 1948-56. The dam was removed in 1957. Waste water from Line 1 flowed through a 3.6-acre sedimentation area where explosive
s settled out, and the liquids overflowed the dam into Brush Creek. IRP tests conducted in 1981 and 1983 detected TNT, DDT, and RDX in wells downgradient of the lagoon and dam. An estimated 100 people obtain drinking water from private w
ells within 3 miles of hazardous substances at the base. In 1984, IRP tests detected RDX and TNT in water from Brush Creek, and RDX, TNT, and lead in creek sediments. Surface water within 3 miles downstream of the site is used for recrea
tional activities. Three incinerator-furnace units and a spray evaporation pond on IAAP are regulated under Subtitle C of the Resource Conservation and Recovery Act. Status (August 30, 1990): EPA and the Army are negotiating an Int
eragency Agreement under CERCLA Section 120. The agreement requires the Army to submit schedules for addressing all contaminated areas in IAAP and allows for EPA and State comment throughout subsequent response activities."

Site Status Details:
NPL Status: Final
Proposed Date: 07/14/1989
Final Date: 08/30/1990
Deleted Date: Not reported

IOWA ARMY AMMUNITION PLANT (Continued) **1000141617**

ROD:
Full-text of USEPA Record of Decision(s) is available from EDR.

RCRAInfo Corrective Action Summary:

Event: Stabilization Measures Evaluation,This facility is not amenable to stabilization activity at the present time for reasons other than 1) it appears to be technically infeasible or inappropriate (NF) or 2) there is a lack of technical information (IN). Reasons for this conclusion may be the status of closure at the facility, the degree of risk, timing considerations, the status of corrective action work at the facility, or other administrative considerations.
Event Date: 08/20/1992

Event: CA Prioritization, Facility or area was assigned a high corrective action priority.
Event Date: 01/28/1992

Event: CA Responsibility Referred To A Non-RCRA Federal Authority, Corrective Action at the facility or area referred to CERCLA.
Event Date: 12/10/1990

Event: RFI Imposition
Event Date: 11/08/1989

Event: RFA Completed
Event Date: 09/30/1987

Event: RFA Determination Of Need For An RFI, RFI is Necessary;
Event Date: 09/30/1987

RCRAInfo:
Owner: AMERICAN ORNANCE LLC
515
EPA ID: IA7213820445

Contact: LEON BAXTER
(319) 753-7101

Classification: Large Quantity Generator, TSDF
TSDF Activities: Not reported

BIENNIAL REPORTS:
Last Biennial Reporting Year: 2003

Waste	Quantity (Lbs)	Waste	Quantity (Lbs)
D001	35300.00	D003	295149.00
D005	47400.00	D006	34300.00
D007	34300.00	D008	58200.00
D009	34300.00	D030	102962.00
F003	25700.00	F005	25700.00
K044	9915.00	K045	52600.00

Violation Status: Violations exist

Regulation Violated: 40 CFR 264.15(d)
Area of Violation: GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined: 12/17/2003
Actual Date Achieved Compliance: 12/18/2003

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/17/2003
Penalty Type: Not reported

Regulation Violated: 40 CFR 262.34(a)(1)(i) & (2)

IOWA ARMY AMMUNITION PLANT (Continued) **1000141617**

Area of Violation: GENERATOR-PRE-TRANSPORT REQUIREMENTS
Date Violation Determined: 09/26/2000
Actual Date Achieved Compliance: 09/26/2000

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 10/15/2001
Penalty Type: Not reported

Regulation Violated: CFR 278.7(b)(4)(ii)
Area of Violation: TSD-LAND BAN REQUIREMENTS
Date Violation Determined: 08/12/1997
Actual Date Achieved Compliance: 08/28/1997

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 08/14/1997
Penalty Type: Not reported

Regulation Violated: CFR 268.7(b)(4)(iii)
Area of Violation: TSD-LAND BAN REQUIREMENTS
Date Violation Determined: 08/12/1997
Actual Date Achieved Compliance: 08/28/1997

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 08/14/1997
Penalty Type: Not reported

Regulation Violated: CFR 265.174
Area of Violation: TSD-CONTAINERS REQUIREMENTS
Date Violation Determined: 08/12/1997
Actual Date Achieved Compliance: 08/28/1997

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 08/14/1997
Penalty Type: Not reported

Regulation Violated: CFR 262.11
Area of Violation: GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined: 08/12/1997
Actual Date Achieved Compliance: 09/21/1998

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 08/14/1997
Penalty Type: Not reported

Regulation Violated: CFR 262.23(b)
Area of Violation: GENERATOR-MANIFEST REQUIREMENTS
Date Violation Determined: 08/12/1997
Actual Date Achieved Compliance: 08/28/1997

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 08/14/1997
Penalty Type: Not reported

Regulation Violated: Permit Section IV E.1.
Area of Violation: TSD-CONTAINERS REQUIREMENTS
Date Violation Determined: 08/12/1997
Actual Date Achieved Compliance: 08/28/1997

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 08/14/1997
Penalty Type: Not reported

Regulation Violated: CFR 262.34(a)(2)
Area of Violation: GENERATOR-PRE-TRANSPORT REQUIREMENTS

IOWA ARMY AMMUNITION PLANT (Continued) **1000141617**

Date Violation Determined: 08/12/1997
Actual Date Achieved Compliance: 08/20/1997

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 08/14/1997
Penalty Type: Not reported

Regulation Violated: CFR 279.22(d)
Area of Violation: GENERATOR-OTHER REQUIREMENTS
Date Violation Determined: 08/12/1997
Actual Date Achieved Compliance: 08/28/1997

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 08/14/1997
Penalty Type: Not reported

Regulation Violated: CFR 262.11
Area of Violation: GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined: 08/07/1996
Actual Date Achieved Compliance: 10/08/1996

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 08/07/1996
Penalty Type: Not reported

Regulation Violated: CFR 265.118
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 08/07/1996
Actual Date Achieved Compliance: 08/22/1996

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 08/07/1996
Penalty Type: Not reported

Regulation Violated: Permit Condition II.E.1
Area of Violation: TSD-GENERAL STANDARDS
Date Violation Determined: 08/07/1996
Actual Date Achieved Compliance: 08/22/1996

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 08/07/1996
Penalty Type: Not reported

Regulation Violated: CFR 279.22(c)
Area of Violation: TSD-OTHER REQUIREMENTS
Date Violation Determined: 08/07/1996
Actual Date Achieved Compliance: 08/22/1996

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 08/07/1996
Penalty Type: Not reported

Regulation Violated: Permit Condition II.F.
Area of Violation: TSD-GENERAL STANDARDS
Date Violation Determined: 08/07/1996
Actual Date Achieved Compliance: 08/22/1996

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 08/07/1996
Penalty Type: Not reported

Regulation Violated: Permit Condition III.G.
Area of Violation: TSD-CONTAINERS REQUIREMENTS
Date Violation Determined: 08/07/1996

IOWA ARMY AMMUNITION PLANT (Continued) **1000141617**

Actual Date Achieved Compliance: 08/22/1996

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 08/07/1996
Penalty Type: Not reported

Regulation Violated: Permit Condition III.F.
Area of Violation: TSD-CONTAINERS REQUIREMENTS
Date Violation Determined: 08/07/1996
Actual Date Achieved Compliance: 08/22/1996

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 08/07/1996
Penalty Type: Not reported

Regulation Violated: Permit Condition VII(A).C.7.b.
Area of Violation: TSD-INCINERATOR REQUIREMENTS
Date Violation Determined: 08/07/1996
Actual Date Achieved Compliance: 08/22/1996

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 08/07/1996
Penalty Type: Not reported

Regulation Violated: Permit Condition III.G.
Area of Violation: TSD-CONTAINERS REQUIREMENTS
Date Violation Determined: 08/07/1996
Actual Date Achieved Compliance: 08/22/1996

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 08/07/1996
Penalty Type: Not reported

Regulation Violated: Permit Condition III.E.
Area of Violation: TSD-CONTAINERS REQUIREMENTS
Date Violation Determined: 08/07/1996
Actual Date Achieved Compliance: 08/22/1996

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 08/07/1996
Penalty Type: Not reported

Regulation Violated: Permit Condition VII(A)D
Area of Violation: TSD-INCINERATOR REQUIREMENTS
Date Violation Determined: 06/20/1995
Actual Date Achieved Compliance: 06/27/1995

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 06/20/1995
Penalty Type: Not reported

Regulation Violated: CFR 265.15(d)
Area of Violation: TSD-GENERAL STANDARDS
Date Violation Determined: 06/20/1995
Actual Date Achieved Compliance: 06/27/1995

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 06/20/1995
Penalty Type: Not reported

Regulation Violated: CFR 265.15(d)
Area of Violation: TSD-GENERAL STANDARDS
Date Violation Determined: 06/20/1995
Actual Date Achieved Compliance: 06/27/1995

IOWA ARMY AMMUNITION PLANT (Continued) **1000141617**

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 06/20/1995
Penalty Type: Not reported

Regulation Violated: CFR 268.7(a)
Area of Violation: TSD-LAND BAN REQUIREMENTS
Date Violation Determined: 06/24/1994
Actual Date Achieved Compliance: 06/01/1999

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 06/24/1994
Penalty Type: Not reported

Regulation Violated: RELEASES OF ASH FROM EWI
Area of Violation: TSD-INCINERATOR REQUIREMENTS
Date Violation Determined: 06/28/1993
Actual Date Achieved Compliance: 06/01/1999

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 08/10/1993
Penalty Type: Not reported

Regulation Violated: HW DETERMINATION
Area of Violation: GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined: 03/12/1992
Actual Date Achieved Compliance: 08/09/1993

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 03/12/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: INITIAL NOTICE OF NON-COMPLIANCE, FEDERAL FACILITY
Enforcement Action Date: 12/31/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 03/08/1994
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 03/08/1994
Penalty Type: Final Monetary Penalty

Regulation Violated: ILLEGAL STORAGE
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 03/12/1992
Actual Date Achieved Compliance: 04/06/1993

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 03/12/1992
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined: 03/12/1992
Actual Date Achieved Compliance: 03/18/1992

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 03/12/1992
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 01/30/1992

IOWA ARMY AMMUNITION PLANT (Continued) **1000141617**

Actual Date Achieved Compliance: 09/30/1995

Enforcement Action: INITIAL NOTICE OF NON-COMPLIANCE, FEDERAL FACILITY
Enforcement Action Date: 12/31/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 03/08/1994
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 03/08/1994
Penalty Type: Final Monetary Penalty

Regulation Violated: CFR 265.112
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 10/24/1990
Actual Date Achieved Compliance: 04/06/1993

Enforcement Action: INITIAL NOTICE OF NON-COMPLIANCE, FEDERAL FACILITY
Enforcement Action Date: 12/31/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 03/08/1994
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 03/08/1994
Penalty Type: Final Monetary Penalty

Regulation Violated: INSPECTIONS, HW DETE
Area of Violation: TSD-GENERAL STANDARDS
Date Violation Determined: 10/24/1990
Actual Date Achieved Compliance: 10/31/1990

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 10/24/1990
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined: 10/24/1990
Actual Date Achieved Compliance: 10/31/1990

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 10/24/1990
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined: 03/22/1990
Actual Date Achieved Compliance: 03/29/1990

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 03/22/1990
Penalty Type: Not reported

Regulation Violated: CFR 265.112
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 03/22/1990
Actual Date Achieved Compliance: 04/06/1993

Enforcement Action: INITIAL NOTICE OF NON-COMPLIANCE, FEDERAL FACILITY
Enforcement Action Date: 12/31/1992

IOWA ARMY AMMUNITION PLANT (Continued) **1000141617**

Penalty Type: Final Monetary Penalty

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 03/08/1994
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 03/08/1994
Penalty Type: Final Monetary Penalty

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 05/17/1989
Actual Date Achieved Compliance: 06/01/1989

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 05/23/1989
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 02/01/1989
Actual Date Achieved Compliance: 06/01/1999

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 05/10/1989
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 08/16/1988
Actual Date Achieved Compliance: 02/16/1989

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 01/17/1989
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 08/16/1988
Actual Date Achieved Compliance: 02/16/1989

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 01/17/1989
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined: 08/16/1988
Actual Date Achieved Compliance: 02/16/1989

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 01/17/1989
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 08/16/1988
Actual Date Achieved Compliance: 06/01/1999

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 01/17/1989
Penalty Type: Not reported

Regulation Violated: Not reported

IOWA ARMY AMMUNITION PLANT (Continued) **1000141617**

Area of Violation: TSD-LAND BAN REQUIREMENTS
Date Violation Determined: 08/16/1988
Actual Date Achieved Compliance: 02/16/1989

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 01/17/1989
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 09/17/1987
Actual Date Achieved Compliance: 02/16/1989

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 08/18/1988
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 04/22/1986
Actual Date Achieved Compliance: 09/30/1988

Enforcement Action: FINAL FEDERAL FACILITY COMPLIANCE AGREEMENT
Enforcement Action Date: 04/29/1988
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 04/22/1986
Actual Date Achieved Compliance: 09/30/1988

Enforcement Action: FINAL FEDERAL FACILITY COMPLIANCE AGREEMENT
Enforcement Action Date: 04/29/1988
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 04/22/1986
Actual Date Achieved Compliance: 09/30/1988

Enforcement Action: FINAL FEDERAL FACILITY COMPLIANCE AGREEMENT
Enforcement Action Date: 04/29/1988
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 04/01/1986
Actual Date Achieved Compliance: 04/16/1986

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 04/10/1986
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 06/06/1985
Actual Date Achieved Compliance: 06/14/1985

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 06/06/1985
Penalty Type: Not reported

Penalty Summary:

Penalty Description	Penalty Date	Penalty Amount	Lead Agency

IOWA ARMY AMMUNITION PLANT (Continued) **1000141617**

Final Monetary Penalty	3/8/1994	75704	EPA
Proposed Monetary Penalty	3/8/1994	201640	EPA

There are 47 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance
Compliance Evaluation Inspection	GENERATOR-PRE-TRANSPORT REQUIREMENTS	20031218
Compliance Evaluation Inspection	GENERATOR-PRE-TRANSPORT REQUIREMENTS	20000926
Compliance Evaluation Inspection	TSD-LAND BAN REQUIREMENTS	19970828
	TSD-LAND BAN REQUIREMENTS	19970828
	TSD-CONTAINERS REQUIREMENTS	19970828
	TSD-CONTAINERS REQUIREMENTS	19970828
	GENERATOR-MANIFEST REQUIREMENTS	19970828
	GENERATOR-GENERAL REQUIREMENTS	19980921
	GENERATOR-PRE-TRANSPORT REQUIREMENTS	19970820
	GENERATOR-OTHER REQUIREMENTS	19970828
Compliance Evaluation Inspection	GENERATOR-GENERAL REQUIREMENTS	19961008
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19960822
	TSD-OTHER REQUIREMENTS	19960822
	TSD-GENERAL STANDARDS	19960822
	TSD-GENERAL STANDARDS	19960822
	TSD-CONTAINERS REQUIREMENTS	19960822
	TSD-CONTAINERS REQUIREMENTS	19960822
	TSD-CONTAINERS REQUIREMENTS	19960822
	TSD-CONTAINERS REQUIREMENTS	19960822
	TSD-INCINERATOR REQUIREMENTS	19960822
RCRA CEI done W/ Screening Checklist	TSD-INCINERATOR REQUIREMENTS	19950627
	TSD-GENERAL STANDARDS	19950627
	TSD-GENERAL STANDARDS	19950627
Compliance Evaluation Inspection	TSD-LAND BAN REQUIREMENTS	19990601
Other Evaluation	TSD-INCINERATOR REQUIREMENTS	19990601
Compliance Evaluation Inspection	GENERATOR-GENERAL REQUIREMENTS	19930809
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19930406
	GENERATOR-GENERAL REQUIREMENTS	19920318
Non-Financial Record Review	TSD-GOUNDWATER MONITORING REQUIREMENTS	19950930
Compliance Evaluation Inspection	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19930406
	TSD-GENERAL STANDARDS	19901031
	GENERATOR-GENERAL REQUIREMENTS	19901031
Compliance Evaluation Inspection	GENERATOR-GENERAL REQUIREMENTS	19900329
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19930406
Non-Financial Record Review	TSD-GOUNDWATER MONITORING REQUIREMENTS	19890601
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19990601
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19890216
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19890216
	GENERATOR-LAND BAN REQUIREMENTS	19890216
	TSD-LAND BAN REQUIREMENTS	19890216
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19990601
Compliance Evaluation Inspection	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19890216
Non-Financial Record Review	TSD-GOUNDWATER MONITORING REQUIREMENTS	19880930
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19880930
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19880930
Other Evaluation	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19860416
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19850614
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19850614

IOWA ARMY AMMUNITION PLANT (Continued) **1000141617**

FINDS:

Other Pertinent Environmental Activity Identified at Site:

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

IDNR-EFD (Iowa Department Of Natural Resources - Emission Factor Documentation) provides information about existing emission factors

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

PCS (Permit Compliance System) is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

UST:

Facility ID:	198606344
Tank Number:	001
Tank Status:	**Non-regulated heating oil tank - r/f**
Currently In Use:	No
Temp Closed Date:	Not reported
Site Install Date:	6/1/82 0:00:00
Date Removed:	9/11/91 0:00:00
Filled Inert:	Not reported
Date Filled in Place:	Not reported
Inert Material:	Not reported

IOWA ARMY AMMUNITION PLANT (Continued) **1000141617**

Date Last Contained Product:	Not reported
Tank Type:	Other
Tank Capacity:	10000
Tank Contents:	Petroleum other
No Further Action Date:	1/1/00 0:00:00
Permanently Out of Use:	Not reported
Compartment Case:	Not reported
Compartments:	No
Compartment Capacity:	0
Compartment 1 Contents:	Not reported
Compartment 1 Case:	Not reported
Tank Material and Construction Other:	FRP
Tank Material and Construction Other:	Not reported
Tank Internal Protection Fiberglass:	Not reported
TIP Internal Lining:	Not reported
TIP None:	Not reported
TIP Internal Unknown:	Not reported
TIP Internal Other:	Not reported
Tank External Protection Cathodic:	Yes
TEP Asphaltic:	Not reported
TEP Fiberglass Reinforced Plastic:	Not reported
TEP Field Install Cathodic Protection:	Not reported
TEP Factor Install Cathodic Protection:	Not reported
TEP Impressed Current:	Not reported
TEP Coal for Epoxy:	Not reported
TEP Fiberglass Reinforced Urethane:	Not reported
TEP Agency Specify:	Not reported
TEP None:	Not reported
TEP Unknown:	Not reported
Date Cathodic Protection Tested:	Not reported
TEP Other:	Not reported
Other Method Cathodic Protection:	Not reported
Leak Detection System Vapor Monitoring Wells:	Not reported
LDS Ground Monitoring Wells:	Not reported
LDS Interstitial:	Not reported
LDS Interstitial Containments:	Not reported
LDS Auto-Guaging:	Not reported
LDS Tank Tightness Testing:	Not reported
LDS Statistical:	Not reported
LDS Manual Guaging:	Not reported
LDS None:	Not reported
LDS Other:	Not reported
Piping Construction and Protection Bare Steel:	Not reported
PCP Double Wall Steel:	Not reported
PCP Galvanized Steel:	Yes
PCP Fiberglass Reinforced Plastic:	Not reported
PCP Double Wall Fiberglass Reinforced Plastic:	Not reported
PCP Double Wall:	Not reported
PCP Flex Wall:	Not reported
PCP Cathodic Protection:	Not reported
PCP Unknown:	Not reported
Type of Piping Pressurized Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Safer Suction:	Not reported
PLD Automatic Line Leak Mechanical:	Not reported
PLD Automatic Electronic:	Not reported
PLD Automatic Line Tightness:	Not reported

IOWA ARMY AMMUNITION PLANT (Continued) **1000141617**

PLD Interstitial:	Not reported
PLD Secondary Barrier:	Not reported
Piping Leak Detection Vapor:	Not reported
PLD Ground Water Monitoring:	Not reported
PLD Suction:	Not reported
PLD Suction:	Not reported
PLD Statistical:	Not reported
PLD None:	Not reported
PLD Other:	Not reported
Spill Protection:	Not reported
Catchment Basin Size:	Not reported
Catchment Basin None:	Not reported
Catchment Basin Unknown:	Not reported
Overfill Protection:	Not reported
Automatic Shutoff Device:	Not reported
Flow Restrictor:	Not reported
High Level Alarm:	Not reported
Installer Cert. by Tank/Pipe Manufacturers:	Not reported
Installation Cert. by Professional Engineers:	Not reported
Manufacturer Checklist Completed:	Not reported
Tanks/Pipes Tested for leaks during/after Install:	Not reported
Other Installation:	Not reported
Installer Cert. by LUST Board:	Not reported
Installation Cert. by LUST Board Cert. Inspector:	Not reported
Site Status:	**Non Regulated Heating Oil Tanks -R/F**
Region:	6
Facility Tel:	Not reported
Extension:	Not reported
Facility Fax:	Not reported
Owner Name:	IOWA ARMY AMMUNITION PLANT
Owner Address:	17571 STATE HIGHWAY 79
Owner Address 2:	Not reported
Owner City,St,Zip:	MIDDLETOWN, IA 526380000
Owner Tel:	3197537101
Extension:	Not reported
Owner Fax:	Not reported
Owner Type:	Federal
Date Owner Signed:	4/21/86 0:00:00
Multiple Owners:	0
Undeliverable Address:	No
Owner Certification Last Name:	Not reported
Owner Certification First Name:	Not reported
Owner Certification Middle Initial:	Not reported
Owner Certification Title:	Not reported
Authorized Name:	Not reported
Authorized Address:	Not reported
Authorized Address 2:	Not reported
Authorized City,St,Zip:	000000000
Authorized Person Tel:	0000000000
Extension:	Not reported
Authorized Fax:	Not reported
Contact Last Name:	BAXTER
Contact First Name:	LEON
Contact Middle Initial:	D
Contact Title:	Not reported
Contact Tele:	3197537101
Contact Ext:	Not reported

IOWA ARMY AMMUNITION PLANT (Continued) **1000141617**

Contact Fax:	Not reported
Operator Company:	Not reported
Operator Last Name:	Not reported
Operator First Name:	Not reported
Operator Middle Name:	Not reported
Operator Title:	Not reported
Operator Address:	Not reported
Operator Address 2:	Not reported
Operator City,St,Zip:	Not reported
Operator Tele:	Not reported
Operator Extension:	Not reported
Operator Fax:	Not reported
Installers Last Name:	FAVATI
Installers First Name:	VICTOR
Installers Middle Init:	A
Installers Company:	Not reported
Installers Date:	Not reported
Financial Date:	Not reported
Insurance Name:	Not reported
Policy Number:	Not reported
Policy Date:	Not reported
Policy End Date:	Not reported
Tank Count:	1
Number Of Lust:	0001
Tanks with capacity more than 1100 Gallons:	000
Updated 911:	Y
Memo:	Not reported

NY MANIFEST:

Document ID:	NYO1376307
Manifest Status:	K
Trans1 State ID:	Not reported
Trans2 State ID:	Not reported
Generator Ship Date:	840706
Trans1 Recv Date:	840706
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	840709
Part A Recv Date:	840719
Part B Recv Date:	840817
Generator EPA ID:	IA7213820445
Trans1 EPA ID:	NYD088658646
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B011 - PCB CONTAMINATED TRANS CONT >500 PPM
Quantity:	00600
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	84
Facility Type:	Generator
EPA ID:	IA7213820445
Facility Name:	UNITED STATES MILITARY
Facility Address:	ROCK ISLAND ARSENAL BLDG 154
Facility City:	ROCK ISLAND
Facility Zip 4:	Not reported

IOWA ARMY AMMUNITION PLANT (Continued) **1000141617**

Country:	Not reported
County:	Not reported
Mailing Name:	UNITED STATES MILITARY
Mailing Contact:	IOWA ARMY AMMO DEPOT
Mailing Address:	ROCK ISLAND ARSENAL BLDG 154
Mailing City:	ROCK ISLAND
Mailing State:	IL
Mailing Zip:	61209
Mailing Zip4:	Not reported
Mailing Country:	Not reported
Mailing Phone:	309-794-5613

Click this hyperlink while viewing on your computer to access
4 additional NY MANIFEST: record(s) in the EDR Site Report.

WI MANIFEST:

Year:	04
EPA ID:	IA7213820445
FID:	999566590
ACT Code:	201
ACT Status:	A
ACT Code 1:	201
ACT Name:	HW Generator - Large
Contact First Name:	MATHES
Contact Last Name:	GEORGE/CHIEF
Contact Title:	CHIEF ENGR
Contact Address:	HWY 34
Contact State:	IA
Contact City:	MIDDLETOWN
Contact Zip:	52638
Contact Telephone:	3097946269
Contact Extention:	Not reported
Contact Email Address:	Not reported
WI MANIFEST SHIP:	-
Year:	04
Manifest DOC ID:	0
Copy Type:	3
Gen EPA ID:	IA7213820445
Gen Date:	03/01/2004
TSD Date:	03/02/2004
TSD EPA ID:	WID988580056
GEN Copy Revd Date:	Not reported
TSG Copy Revd Date:	03/16/2004
Year:	Not reported
Manifest DOC ID:	Not reported
Waste Page No:	Not reported
Waste Line No:	Not reported
Waste Code:	Not reported
Waste Amount:	Not reported
Unit of Measure:	Not reported
Waste LBS:	Not reported

Year:	04
Manifest DOC ID:	0
Copy Type:	3
Gen EPA ID:	IA7213820445
Gen Date:	03/01/2004

IOWA ARMY AMMUNITION PLANT (Continued) **1000141617**

TSD Date:	03/02/2004
TSD EPA ID:	WID988580056
GEN Copy Revd Date:	3/4/2004
TSG Copy Revd Date:	03/16/2004
Year:	Not reported
Manifest DOC ID:	Not reported
Waste Page No:	Not reported
Waste Line No:	Not reported
Waste Code:	Not reported
Waste Amount:	Not reported
Unit of Measure:	Not reported
Waste LBS:	Not reported

Year:	04
Manifest DOC ID:	0
Copy Type:	3
Gen EPA ID:	IA7213820445
Gen Date:	03/01/2004
TSD Date:	03/02/2004
TSD EPA ID:	WID988580056
GEN Copy Revd Date:	3/4/2004
TSG Copy Revd Date:	03/16/2004
Year:	Not reported
Manifest DOC ID:	Not reported
Waste Page No:	Not reported
Waste Line No:	Not reported
Waste Code:	Not reported
Waste Amount:	Not reported
Unit of Measure:	Not reported
Waste LBS:	Not reported

Year:	04
Manifest DOC ID:	0
Copy Type:	3
Gen EPA ID:	IA7213820445
Gen Date:	05/10/2004
TSD Date:	05/18/2004
TSD EPA ID:	WID988580056
GEN Copy Revd Date:	1/19/2005
TSG Copy Revd Date:	05/27/2004
Year:	Not reported
Manifest DOC ID:	Not reported
Waste Page No:	Not reported
Waste Line No:	Not reported
Waste Code:	Not reported
Waste Amount:	Not reported
Unit of Measure:	Not reported
Waste LBS:	Not reported

Year:	04
Manifest DOC ID:	0
Copy Type:	3
Gen EPA ID:	IA7213820445
Gen Date:	05/10/2004
TSD Date:	05/18/2004
TSD EPA ID:	WID988580056
GEN Copy Revd Date:	1/19/2005

IOWA ARMY AMMUNITION PLANT (Continued) **1000141617**

TSG Copy Revd Date:	06/10/2004
Year:	Not reported
Manifest DOC ID:	Not reported
Waste Page No:	Not reported
Waste Line No:	Not reported
Waste Code:	Not reported
Waste Amount:	Not reported
Unit of Measure:	Not reported
Waste LBS:	Not reported
WI MANIFEST SHIP:	Has 23 more record(s) for this section. Please contact your EDR Account Executive for more information

WI MANIFEST TRANS:	-
Year:	Not reported
Mifest DOC ID:	Not reported
TRAN EPA ID:	Not reported
TRAN ORDER NO:	Not reported
TRAN Date:	Not reported

Year:	Not reported
Manifest DOC ID:	Not reported
Waste Page No:	Not reported
Waste Line No:	Not reported
Waste Code:	Not reported
Waste Amount:	Not reported
Unit of Measure:	Not reported
Waste LBS:	Not reported

Year:	05
EPA ID:	IA7213820445
FID:	999566590
ACT Code:	201
ACT Status:	A
ACT Code 1:	201
ACT Name:	HW Generator - Large
Contact First Name:	MATHES
Contact Last Name:	GEORGE/CHIEF
Contact Title:	CHIEF ENGR
Contact Address:	HWY 34
Contact State:	IA
Contact City:	MIDDLETOWN
Contact Zip:	52638
Contact Telephone:	3097946269
Contact Extention:	Not reported
Contact Email Address:	Not reported
WI MANIFEST SHIP:	-
Year:	04
Manifest DOC ID:	0
Copy Type:	3
Gen EPA ID:	IA7213820445
Gen Date:	03/01/2004
TSD Date:	03/02/2004
TSD EPA ID:	WID988580056
GEN Copy Revd Date:	Not reported
TSG Copy Revd Date:	03/16/2004
Year:	Not reported

IOWA ARMY AMMUNITION PLANT (Continued) **1000141617**

Manifest DOC ID:	Not reported
Waste Page No:	Not reported
Waste Line No:	Not reported
Waste Code:	Not reported
Waste Amount:	Not reported
Unit of Measure:	Not reported
Waste LBS:	Not reported

Year:	04
Manifest DOC ID:	0
Copy Type:	3
Gen EPA ID:	IA7213820445
Gen Date:	03/01/2004
TSD Date:	03/02/2004
TSD EPA ID:	WID988580056
GEN Copy Revd Date:	3/4/2004
TSG Copy Revd Date:	03/16/2004
Year:	Not reported
Manifest DOC ID:	Not reported
Waste Page No:	Not reported
Waste Line No:	Not reported
Waste Code:	Not reported
Waste Amount:	Not reported
Unit of Measure:	Not reported
Waste LBS:	Not reported

Year:	04
Manifest DOC ID:	0
Copy Type:	3
Gen EPA ID:	IA7213820445
Gen Date:	03/01/2004
TSD Date:	03/02/2004
TSD EPA ID:	WID988580056
GEN Copy Revd Date:	3/4/2004
TSG Copy Revd Date:	03/16/2004
Year:	Not reported
Manifest DOC ID:	Not reported
Waste Page No:	Not reported
Waste Line No:	Not reported
Waste Code:	Not reported
Waste Amount:	Not reported
Unit of Measure:	Not reported
Waste LBS:	Not reported

Year:	04
Manifest DOC ID:	0
Copy Type:	3
Gen EPA ID:	IA7213820445
Gen Date:	05/10/2004
TSD Date:	05/18/2004
TSD EPA ID:	WID988580056
GEN Copy Revd Date:	1/19/2005
TSG Copy Revd Date:	05/27/2004
Year:	Not reported
Manifest DOC ID:	Not reported
Waste Page No:	Not reported
Waste Line No:	Not reported

IOWA ARMY AMMUNITION PLANT (Continued) **1000141617**

Waste Code:	Not reported
Waste Amount:	Not reported
Unit of Measure:	Not reported
Waste LBS:	Not reported

Year:	04
Manifest DOC ID:	0
Copy Type:	3
Gen EPA ID:	IA7213820445
Gen Date:	05/10/2004
TSD Date:	05/18/2004
TSD EPA ID:	WID988580056
GEN Copy Revd Date:	1/19/2005
TSG Copy Revd Date:	06/10/2004
Year:	Not reported
Manifest DOC ID:	Not reported
Waste Page No:	Not reported
Waste Line No:	Not reported
Waste Code:	Not reported
Waste Amount:	Not reported
Unit of Measure:	Not reported
Waste LBS:	Not reported
WI MANIFEST SHIP:	Has 23 more record(s) for this section. Please contact your EDR Account Executive for more information

WI MANIFEST TRANS:	-
Year:	Not reported
Mifest DOC ID:	Not reported
TRAN EPA ID:	Not reported
TRAN ORDER NO:	Not reported
TRAN Date:	Not reported

Year:	Not reported
Manifest DOC ID:	Not reported
Waste Page No:	Not reported
Waste Line No:	Not reported
Waste Code:	Not reported
Waste Amount:	Not reported
Unit of Measure:	Not reported
Waste LBS:	Not reported

A2 **IOWA ARMY AMMUNITION PLANT** **LUST** **U003929014**
East **17571 STATE HIGHWAY 79** **N/A**
1/8-1/4 **MIDDLETOWN, IA 52638**
1179 ft.

Site 1 of 2 in cluster A

Relative:
Lower

Actual:
720 ft.

LUST:

Facility ID:	198606344	Leak Number:	8LTQ63
Facility Addr 2:	Not reported		
Facility Phone:	Not reported	Facility Fax:	Not reported
Owner Name:	IOWA ARMY AMMUNITION PLANT		
Owner Type:	Federal		
Owner Addr:	17571 STATE HIGHWAY 79		
Owner City,St,Zip:	MIDDLETOWN, IA 526380000		
Owner Phone:	3197537101	Owner Fax:	Not reported
Lead:	Responsible Party	Coordinator:	VKS

IOWA ARMY AMMUNITION PLANT (Continued) **U003929014**

Staff Initials:	VKS	Spill Number:	Not reported
Leak Entry Date:	10/17/91 0:00:00		
Leak Contact:	LEON BAXTER		
Leak Address:	Not reported		
Leak City,St,Zip:	Not reported		
Leak Phone:	3197537101		
Record Name:	LESLEY CAMPBELL	Record Date:	10/17/91 0:00:00
Record Location:	UST		
Reporter Name:	LEON BAXTER		
Rprtr Business:	IAAP		
Reporter Date:	10/17/91 0:00:00		
Reporter Addr:	Not reported		
Rprtr City,St,Zip:	MIDDLETOWN, IA 526380000		
Reporter Phone:	3197537101		
Discover Date:	9/11/91 0:00:00	Discover Time:	Not reported
Occur Date:	Not reported	Occur Time:	Not reported
Responsible Party	Not reported		
RP Company:	Not reported		
RP Address:	Not reported		
RP City,St,Zip:	Not reported		
RP Phone:	Not reported	RP Ext:	Not reported
RP Fax:	Not reported		
ER Date:	Not reported	Delete:	0

Ground Water professional ID:	Not reported
Ground Water Professional Due Date:	6/30/92 0:00:00
Ground Water Professional Received Date:	Not reported
Corrective Action Design Report Id:	Not reported
Corrective Action Design Due Date:	Not reported
Corrective Action Design Record Date:	Not reported

IA LUST MISC:

Misc Due Date:	Not reported	Misc Rec Date:	Not reported
Misc Other:	Not reported	Misc Title:	Not reported

IA LUST Site Monitoring Report:

Site Monitoring Report Due Date:	Not reported
Site Monitoring Report Rec Date:	Not reported
Site Monitoring Report Reg Date:	Not reported
Site Monitoring Report Rejected Date:	Not reported
Site Monitoring Report Type:	Not reported
Reclassification Request Type:	Not reported
Site Monitoring Report Revd By:	Not reported
GW professional ID:	Not reported

IA LUST REMEDIATION:

Heat Treatment:	No
Land Application:	No
On Site:	No
Achieved Over-Excavation:	No
Soil Venting Passive:	No
Soil Venting Active:	No
Bioremediation Passive:	No
Bioremediation Active:	No
In Situ GW Treatment - Air Sparging:	No
Ground Water:	No
Fresh Water:	No
IGT - pH Adjustment:	No

IOWA ARMY AMMUNITION PLANT (Continued) **U003929014**

Nutrient:	No
Oxygen:	No
Biological:	No
Permit Date:	Not reported
Other:	No
Surface Treatment - Carbon Absorption:	No
Biological:	No
ST Other:	No
TDT Sanitary Sewer:	No
TDT Storm Sewer:	No
Stream:	No
TDT Other:	No
Reduced Risk Plugged Well:	No
RR Replace:	No
RR Relocate:	No
RR Other:	No
Delete:	No

IA LUST FREE PRODUCT RECOVERY:

FPR Report Assesment Due:	Not reported
FPR Report Received:	Not reported
FPR Report Accepted:	Not reported
FPR Report Rejected:	Not reported
FPR Report Revised:	Not reported

IA LUST Corrective Action Design Report:

Corrective Action Design Record Date:	Not reported
Corrective Action Design Received:	Not reported
Corrective Action Design Accepted:	Not reported
Corrective Action Design Rejected:	Not reported
Revised Report Received:	Not reported

IA LUST Tier 1 Report:

T1 Assesment Due:	Not reported
T1 Received:	Not reported
Tier 1 Consultant Recommends:	Not reported
T1 Accepted:	Not reported
T1 Rejected:	Not reported
T1 Revised:	Not reported
T1 Reviewed:	Not reported

IA LUST Tier 2 Report:

T2 Assesment Due:	Not reported
T2 Received:	Not reported
T2 Accepted:	Not reported
T2 Rejected:	Not reported
T2 Reviewed:	Not reported

IA LUST Tier 3 Report:

T3 Assesment Due:	Not reported
T3 Received:	Not reported
T3 Accepted:	Not reported
T3 Rejected:	Not reported

IOWA ARMY AMMUNITION PLANT (Continued) **U003929014**

IA LUST ADMINISTRATION:

ID:	2910
Owner Identified:	Yes
Responsible Party Found:	Yes
RP Date:	10/17/91 0:00:00
Owner Broke:	No
ER Date:	Not reported
Cost Recovery Start Dt:	Not reported
CR Notice of Intent Dt:	Not reported
CR Appeal of NOI Dt:	Not reported
CR Final Decision Dt:	Not reported
CR EP Comm Lien Approval Dt:	Not reported
CR Lien:	Not reported
CR Ten Yr Renewal Dt:	Not reported
CR Lien Named:	No
crtyrdate:	Not reported
CR Remediation:	Not reported
Delete:	0
CR Amnt Received:	Not reported
CR End Date:	Not reported

IA LUST TRACK:

ID:	2910
Site Assesment Start Date:	3/27/92 0:00:00
Free Product Recvry End Date:	Not reported
FP Letter Sent Date:	Not reported
FP Report Frequency:	Not reported
Assesment Report Due:	Not reported
Assesment Report Received:	Not reported
Assesment Report Approved:	Not reported
Achieved Over-Excavation:	Not reported
Release Not Verified Date:	Not reported
Ref to Contaminated Site Section:	Not reported
Cleanup Start Date:	3/7/94 0:00:00
Cleanup Complete Date:	11/21/94 0:00:00
Cleanup Report Due Date:	2/27/94 0:00:00
Cleanup Report Received Date:	2/14/94 0:00:00
Cleanup Report Approved Date:	3/7/94 0:00:00
Check Report Due Date:	Not reported
Check Report Received Date:	Not reported
Check Report Rejected Date:	Not reported
Check Report Approved Date:	Not reported
Date Classified:	11/21/94 0:00:00
Risk Classification -NFA:	Yes
Class - Low Risk:	No
Class - High Risk:	No
Lust Current:	No Action Required
Tier 1 Consultant Recommends:	Not reported
T1 Actual GW Ingestion:	No
T1 Poten GW Ingestion from Protected GW:	No
T1 Poten GW Ingestion from Protected GW:	No
T1 GW Vapor to Enclosed Space:	No
T1 GW to Plastic Water Line:	No
T1 Surface Water:	No
T1 Soil Leaching to GW:	No
T1 Soil Vapor to Enclosed Space:	No

IOWA ARMY AMMUNITION PLANT (Continued) **U003929014**

T1 Soil to Plastic Line:	No
Tier 2 Consultant Recommends:	Not reported
T2 Actual GW Ingestion:	Not reported
T2 Poten GW Ingestion from Protected GW:	Not reported
T2 Poten GW Ingestion from Protected GW:	Not reported
T2 GW Vapor to Enclosed Space:	Not reported
T2 GW to Plastic Water Line:	Not reported
T2 SW General Use:	Not reported
T2 SW Designated Use:	Not reported
T2 Soil Leaching to GW:	Not reported
T2 Soil Vapor to Enclosed Space:	Not reported
T2 Soil to Plastic Line:	Not reported
Institutional Control Obtained:	No
NFA Certificate Sent:	Not reported
No Action Required:	**No**
Priority Ranking:	Not reported
Delete:	0

IA LUST 28E:

Counter:	Not reported
Staff Initials:	Not reported
Type:	Not reported
County:	Not reported
Part Of State:	Not reported
Priority Number:	Not reported
Reason:	Not reported
Responsible Party:	Not reported
rfpno:	Not reported
Removed:	Not reported
Date Removed:	Not reported
Field Office:	Not reported
Newlist:	Not reported
State Lead:	Not reported
Access Letter Mailed:	Not reported
Owner Signed Access:	Not reported
Signed Access to Contractor:	Not reported
Contractor Signed Access:	Not reported
Final Access Mailed:	Not reported
nfr:	Not reported
Start Date:	Not reported

IL LUST AOSU:

Seq Number:	Not reported
Distribution:	Not reported
UST/LUST Other:	Not reported
Order Type:	Not reported
Legal Ref Start:	Not reported
Division ADM Date:	Not reported
CE Bureau Date:	Not reported
AO Issue Date:	Not reported
AO Number:	Not reported
Name Of Parties:	Not reported
Penalty Due Date:	Not reported
Penalty Amount:	Not reported
Penalty Paid Date:	Not reported
Penalty Amount Paid:	Not reported

IOWA ARMY AMMUNITION PLANT (Continued) **U003929014**

AO Appeal Date:	Not reported
ALJ Decision Date:	Not reported
EPC Decision Date:	Not reported
Attorney Gen Ref Date:	Not reported
Final Court Decision:	Not reported
Case Number:	Not reported
County:	Not reported
Action Required:	Not reported
Compliance Due:	Not reported
In Compliance Date:	Not reported
Removed:	Not reported
Staff Initials:	Not reported

IA LUST STATUS:

ID:	2910
Discovered During:	Removal
Tanks Removed:	01
Leak Cause:	UNK
Gas:	Not reported
Diesel:	Not reported
Oil:	Not reported
Kerosene:	Not reported
Released Fuel Oil:	Not reported
Rel Hydraulic Oil:	Not reported
Rel Other Non Petroleum:	Yes
Rel Unknown:	Not reported
releasnonp:	Not reported
Gallons Released:	UNK000000000
Leak Status:	Stopped
Loc Soil:	Yes
Loc Ground Water:	Not reported
Loc Surface Water:	Not reported
Loc Water Supply:	Not reported
Res Public Water Supply:	Not reported
Resources Water Well:	Not reported
Res Actual Drinking WW:	Not reported
Res Non-Drink WW:	Not reported
respotprtg:	Not reported
ressoil:	Not reported
Res Ground Water:	Not reported
Res Surface Water:	Not reported
Res Toxic Vapor:	Not reported
Res Explosive Vapor:	Not reported
Res Other:	Not reported
Res Impacted Soil:	Not reported
Res Impacted Ground Water:	Not reported
Res Impacted Water Well:	Not reported
Res Impacted Pub Water Supply:	Not reported
Res Impacted Surface Water:	Not reported
Res Impacted Toxic Vapor:	Not reported
Res Impacted Explosive Vapor:	Not reported
Res Impacted Other:	Not reported
Res Impacted Drinking WW:	Not reported
Res Impacted Non-Drink WW:	Not reported
Res Impacted Potential Non Drink WW:	Not reported
Officials Onsite Health:	Not reported
Officials Onsite Fire:	Not reported

IOWA ARMY AMMUNITION PLANT (Continued) **U003929014**

Officials Onsite Law:	Not reported
Officials Onsite Civil:	Not reported
Officials Onsite None:	Yes
Officials Onsite Unknown:	Not reported
Officials Onsite Other:	Not reported
AST:	Not reported
UST/LUST Other:	Not reported
Delete:	0

IA LUST ATSU:

Seq Number:	Not reported
Last Name:	Not reported
Priority Rank:	Not reported
Type:	Not reported
Reason:	Not reported
ATP Due:	Not reported
ATP Letter:	Not reported
Financial Documents Recvd:	Not reported
Able/Unable To Pay:	Not reported
Final Letter:	Not reported
Comment:	Not reported
Project Complete:	Not reported
RP Able to Pay:	Not reported
Project Removed:	Not reported
Staff Initials:	Not reported

IA LUST CONTRACT:

Seq Number:	Not reported
Tank City:	Not reported
Staff Initials:	Not reported
Score:	Not reported
Scope Completed:	Not reported
Advertise:	Not reported
Receive Bids:	Not reported
Commission Approval:	Not reported
Contract Approved:	Not reported
Original Contract Amt:	Not reported
Change Orders:	Not reported
Paid to Date:	Not reported
SCR/CADR Received:	Not reported
SCR/CADR Approved:	Not reported
Contract:	Not reported

IA LUST BEDROCK WELL:

ID:	Not reported
Category:	Not reported
Sample Water Supply:	Not reported
GIS Survey:	Not reported

IA LUST CAUSE:

Release Cause:	Unknown

IA LUST Inst Control:

Inst Control Begin:	Not reported
Inst Control Type:	Not reported

A3 East 1/8-1/4 1179 ft. | **IOWA ARMY AMMUNITION PLANT** | **UST** | **U003935574**
17571 STATE HIGHWAY 79 | **N/A**
MIDDLETOWN, IA 52638

Site 2 of 2 in cluster A

Relative: Lower

Actual: 720 ft.

UST:

Facility ID:	198606351
Tank Number:	001
Tank Status:	**Non-regulated heating oil tank - r/f**
Currently In Use:	No
Temp Closed Date:	Not reported
Site Install Date:	2/1/76 0:00:00
Date Removed:	5/1/88 0:00:00
Filled Inert:	Not reported
Date Filled in Place:	Not reported
Inert Material:	Not reported
Date Last Contained Product:	Not reported
Tank Type:	Not reported
Tank Capacity:	5000
Tank Contents:	Petroleum other
No Further Action Date:	Not reported
Permanently Out of Use:	Not reported
Compartment Case:	Not reported
Compartments:	No
Compartment Capacity:	0
Compartment 1 Contents:	Not reported
Compartment 1 Case:	Not reported
Tank Material and Construction Other:	Steel
Tank Material and Construction Other:	Not reported
Tank Internal Protection Fiberglass:	Not reported
TIP Internal Lining:	Not reported
TIP None:	Not reported
TIP Internal Unknown:	Not reported
TIP Internal Other:	Not reported
Tank External Protection Cathodic:	Not reported
TEP Asphaltic:	Not reported
TEP Fiberglass Reinforced Plastic:	Not reported
TEP Field Install Cathodic Protection:	Not reported
TEP Factor Install Cathodic Protection:	Not reported
TEP Impressed Current:	Not reported
TEP Coal for Epoxy:	Not reported
TEP Fiberglass Reinforced Urethane:	Not reported
TEP Agency Specify:	Not reported
TEP None:	Not reported
TEP Unknown:	Not reported
Date Cathodic Protection Tested:	Not reported
TEP Other:	Not reported
Other Method Cathodic Protection:	Not reported
Leak Detection System Vapor Monitoring Wells:	Not reported
LDS Ground Monitoring Wells:	Not reported
LDS Interstitial:	Not reported
LDS Interstitial Containments:	Not reported
LDS Auto-Guaging:	Not reported
LDS Tank Tightness Testing:	Not reported
LDS Statistical:	Not reported
LDS Manual Guaging:	Not reported
LDS None:	Not reported
LDS Other:	Not reported

IOWA ARMY AMMUNITION PLANT (Continued) **U003935574**

Piping Construction and Protection Bare Steel:	Not reported
PCP Double Wall Steel:	Not reported
PCP Galvanized Steel:	Yes
PCP Fiberglass Reinforced Plastic:	Not reported
PCP Double Wall Fiberglass Reinforced Plastic:	Not reported
PCP Double Wall:	Not reported
PCP Flex Wall:	Not reported
PCP Cathodic Protection:	Not reported
PCP Unknown:	Not reported
Type of Piping Pressurized Piping:	Not reported
TOP Suction Piping:	Not reported
TOP Safer Suction:	Not reported
PLD Automatic Line Leak Mechanical:	Not reported
PLD Automatic Electronic:	Not reported
PLD Automatic Line Tightness:	Not reported
PLD Interstitial:	Not reported
PLD Secondary Barrier:	Not reported
Piping Leak Detection Vapor:	Not reported
PLD Ground Water Monitoring:	Not reported
PLD Suction:	Not reported
PLD Suction:	Not reported
PLD Statistical:	Not reported
PLD None:	Not reported
PLD Other:	Not reported
Spill Protection:	Not reported
Catchment Basin Size:	Not reported
Catchment Basin None:	Not reported
Catchment Basin Unknown:	Not reported
Overfill Protection:	Not reported
Automatic Shutoff Device:	Not reported
Flow Restrictor:	Not reported
High Level Alarm:	Not reported
Installer Cert. by Tank/Pipe Manufacturers:	Not reported
Installation Cert. by Professional Engineers:	Not reported
Manufacturer Checklist Completed:	Not reported
Tanks/Pipes Tested for leaks during/after Install:	Not reported
Other Installation:	Not reported
Installer Cert. by LUST Board:	Not reported
Installation Cert. by LUST Board Cert. Inspector:	Not reported
Site Status:	**Non Regulated Heating Oil Tanks -R/F**
Region:	6
Facility Tel:	Not reported
Extension:	Not reported
Facility Fax:	Not reported
Owner Name:	IOWA ARMY AMMUNITION PLANT
Owner Address:	17571 STATE HIGHWAY 79
Owner Address 2:	Not reported
Owner City,St,Zip:	MIDDLETOWN, IA 526380000
Owner Tel:	3197537101
Extension:	Not reported
Owner Fax:	Not reported
Owner Type:	Federal
Date Owner Signed:	4/21/86 0:00:00
Multiple Owners:	0
Undeliverable Address:	No
Owner Certification Last Name:	Not reported
Owner Certification First Name:	Not reported

IOWA ARMY AMMUNITION PLANT (Continued) **U003935574**

Owner Certification Middle Initial:	Not reported
Owner Certification Title:	Not reported
Authorized Name:	Not reported
Authorized Address:	Not reported
Authorized Address 2:	Not reported
Authorized City,St,Zip:	000000000
Authorized Person Tel:	0000000000
Extension:	Not reported
Authorized Fax:	Not reported
Contact Last Name:	BAXTER
Contact First Name:	LEON
Contact Middle Initial:	D
Contact Title:	Not reported
Contact Tele:	3197537101
Contact Ext:	Not reported
Contact Fax:	Not reported
Operator Company:	Not reported
Operator Last Name:	Not reported
Operator First Name:	Not reported
Operator Middle Name:	Not reported
Operator Title:	Not reported
Operator Address:	Not reported
Operator Address 2:	Not reported
Operator City,St,Zip:	Not reported
Operator Tele:	Not reported
Operator Extension:	Not reported
Operator Fax:	Not reported
Installers Last Name:	FAVATI
Installers First Name:	VICTOR
Installers Middle Init:	A
Installers Company:	Not reported
Installers Date:	Not reported
Financial Date:	Not reported
Insurance Name:	Not reported
Policy Number:	Not reported
Policy Date:	Not reported
Policy End Date:	Not reported
Tank Count:	1
Number Of Lust:	0000
Tanks with capacity more than 1100 Gallons:	000
Updated 911:	Not reported

Memo: Not reported

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
DANVILLE	1003876069	DANVILLE MILL & SUPPLY CO	HWY 34	52623	RCRA-SQG, CERC-NFRAP, SSTS
MIDDLETOWN	U003635200	CASEY'S GENERAL STORE	HWY 34 EAST	52638	LUST, UST
MIDDLETOWN	S106058725	MIDDLETOWN POST OFFICE	HWY 34	52638	LUST

EPA Waste Codes Addendum

Code	Description
D001	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
D003	A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.
D005	BARIUM
D006	CADMIUM
D007	CHROMIUM
D008	LEAD
D009	MERCURY
D030	2,4-DINITROTOLUENE
F003	THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F005	THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
K044	WASTEWATER TREATMENT SLUDGES FROM THE MANUFACTURING AND PROCESSING OF EXPLOSIVES
K045	SPENT CARBON FROM THE TREATMENT OF WASTEWATER CONTAINING EXPLOSIVES

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2005
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: Registry of Hazardous Waste or Hazardous Substance Disposal Sites
State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/03/2006
Date Made Active in Reports: 03/30/2006
Number of Days to Update: 27

Source: Department of Natural Resources
Telephone: 515-281-8801
Last EDR Contact: 05/15/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Annually

SWF/LF: Permitted Solid Waste Management 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: 04/05/2006
Date Data Arrived at EDR: 04/25/2006
Date Made Active in Reports: 05/18/2006
Number of Days to Update: 23

Source: Department of Natural Resources
Telephone: 515-281-8801
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Quarterly

LUST: Leaking Underground Storage Tank Data
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: 04/27/2006
Date Data Arrived at EDR: 05/01/2006
Date Made Active in Reports: 05/18/2006
Number of Days to Update: 17

Source: Department of Natural Resources
Telephone: 515-281-6001
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Quarterly

UST: Underground Storage Tank Data
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: 04/27/2006
Date Data Arrived at EDR: 05/01/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 21

Source: Department of Natural Resources
Telephone: 515-281-6001
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Quarterly

LAST: Leaking Aboveground Storage Tank Sites
A listing of leaking aboveground storage tank sites.

Date of Government Version: 04/06/2006
Date Data Arrived at EDR: 04/07/2006
Date Made Active in Reports: 05/18/2006
Number of Days to Update: 41

Source: Department of Natural Resources
Telephone: 515-281-6001
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AST: Aboveground Storage Tank Sites
Bulk fuel facilities, commercial fuel operations, private farm sites, and any other storage facility that meets the Department of Public Safety?s registration criteria. They register any class I, II or III petroleum product (gas, diesel and oil) above 1,100 gallons.

Date of Government Version: 01/17/2006
Date Data Arrived at EDR: 01/20/2006
Date Made Active in Reports: 02/17/2006
Number of Days to Update: 28

Source: Department of Public Safety
Telephone: 515-281-5821
Last EDR Contact: 04/12/2006
Next Scheduled EDR Contact: 07/17/2006
Data Release Frequency: Varies

SPILLS: Spills Database

Date of Government Version: 04/11/2006
Date Data Arrived at EDR: 04/13/2006
Date Made Active in Reports: 05/18/2006
Number of Days to Update: 35

Source: Department of Natural Resources
Telephone: 515-281-4367
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Annually

INST CONTROL: Sites with Institutional Controls
Sites currently enrolled in the Land Recycling Program that have Institutional Controls.

Date of Government Version: 02/16/2006
Date Data Arrived at EDR: 02/16/2006
Date Made Active in Reports: 03/15/2006
Number of Days to Update: 27

Source: Department of Natural Resources
Telephone: 515-242-5818
Last EDR Contact: 07/10/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Varies

VCP: Land Recycling Program Sites
Sites currently enrolled in the Land Recycling Program.

Date of Government Version: 02/14/2006
Date Data Arrived at EDR: 02/14/2006
Date Made Active in Reports: 03/15/2006
Number of Days to Update: 29

Source: Department of Natural Resources
Telephone: 515-242-5818
Last EDR Contact: 07/10/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Varies

DRYCLEANERS: Iowa Drycleaner List
A listing of drycleaners in Iowa.

Date of Government Version: 05/30/2006
Date Data Arrived at EDR: 05/31/2006
Date Made Active in Reports: 06/29/2006
Number of Days to Update: 29

Source: Department of Natural Resources
Telephone: 515-242-5100
Last EDR Contact: 07/10/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Varies

BROWNFIELDS: Brownfields Site Listing
A listing of brownfields sites.

Date of Government Version: 02/16/2006
Date Data Arrived at EDR: 02/16/2006
Date Made Active in Reports: 03/15/2006
Number of Days to Update: 27

Source: Department of Natural Resources
Telephone: 515-281-8489
Last EDR Contact: 07/10/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Quarterly

AIRS: Minor and Title V Sources Listing
A listing of Minor and Title V sources.

Date of Government Version: 04/11/2006
Date Data Arrived at EDR: 05/02/2006
Date Made Active in Reports: 05/18/2006
Number of Days to Update: 16

Source: Department of Natural Resources
Telephone: 515-281-8468
Last EDR Contact: 04/06/2006
Next Scheduled EDR Contact: 07/03/2006
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/14/2005
Date Data Arrived at EDR: 05/19/2006
Date Made Active in Reports: 06/29/2006
Number of Days to Update: 41

Source: EPA Region 7
Telephone: 913-551-7003
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

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 Facilities
Source: Department of Human Services
Telephone: 515-281-4357

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

BURLINGTON MEMORIAL USARC
17879 HIGHWAY 79
MIDDLETOWN, IA 52638

TARGET PROPERTY COORDINATES

Latitude (North):	40.82710 - 40˚ 49’ 37.6’’
Longitude (West):	91.2744 - 91˚ 16’ 27.8’’
Universal Tranverse Mercator:	Zone 15
UTM X (Meters):	645511.3
UTM Y (Meters):	4520785.0
Elevation:	723 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	40091-G3 DANVILLE, IA
Most Recent Revision:	1981

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).

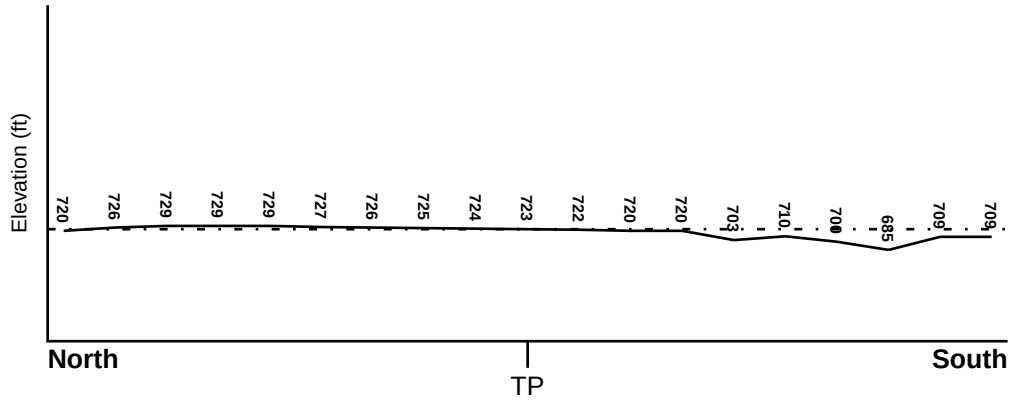
TOPOGRAPHIC INFORMATION

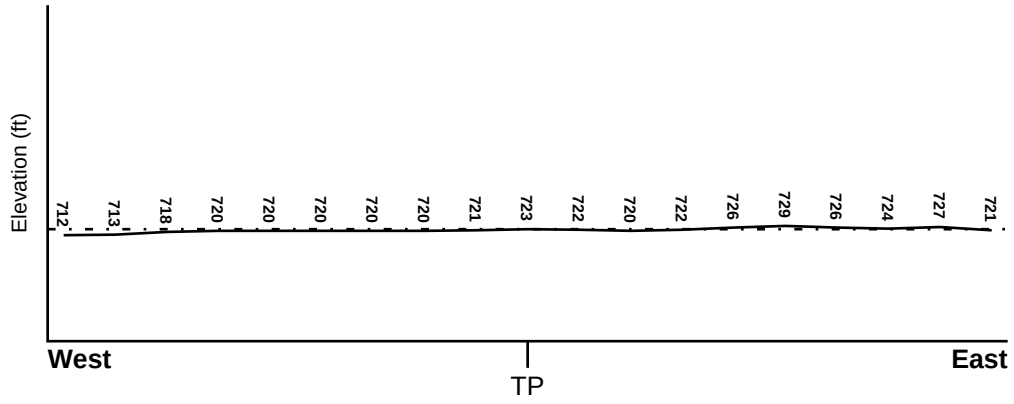
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General South

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 723 ft.

0 1/2 1 Miles

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
DES MOINES, IA	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
DANVILLE	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.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Paleozoic
System:	Mississippian
Series:	Osagean and Kinderhookian Series
Code:	M1 *(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:	TAINTOR
Soil Surface Texture:	silty clay loam
Hydrologic Group:	Class C/D - Drained/undrained hydrology class of soils that can be drained and classified.
Soil Drainage Class:	Poorly. Soils may have a saturated zone, a layer of low hydraulic conductivity, or seepage. Depth to water table is less than 1 foot.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	HIGH
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	9 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 7.30 Min: 5.60
2	9 inches	20 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 7.30 Min: 5.60
3	20 inches	36 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.60 Min: 0.20	Max: 6.50 Min: 5.60
4	36 inches	60 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 7.80 Min: 6.10

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: silt loam

Surficial Soil Types: silt loam

Shallow Soil Types: silt loam

Deeper Soil Types: clay

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
8	USGS2535663	1/2 - 1 Mile ENE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

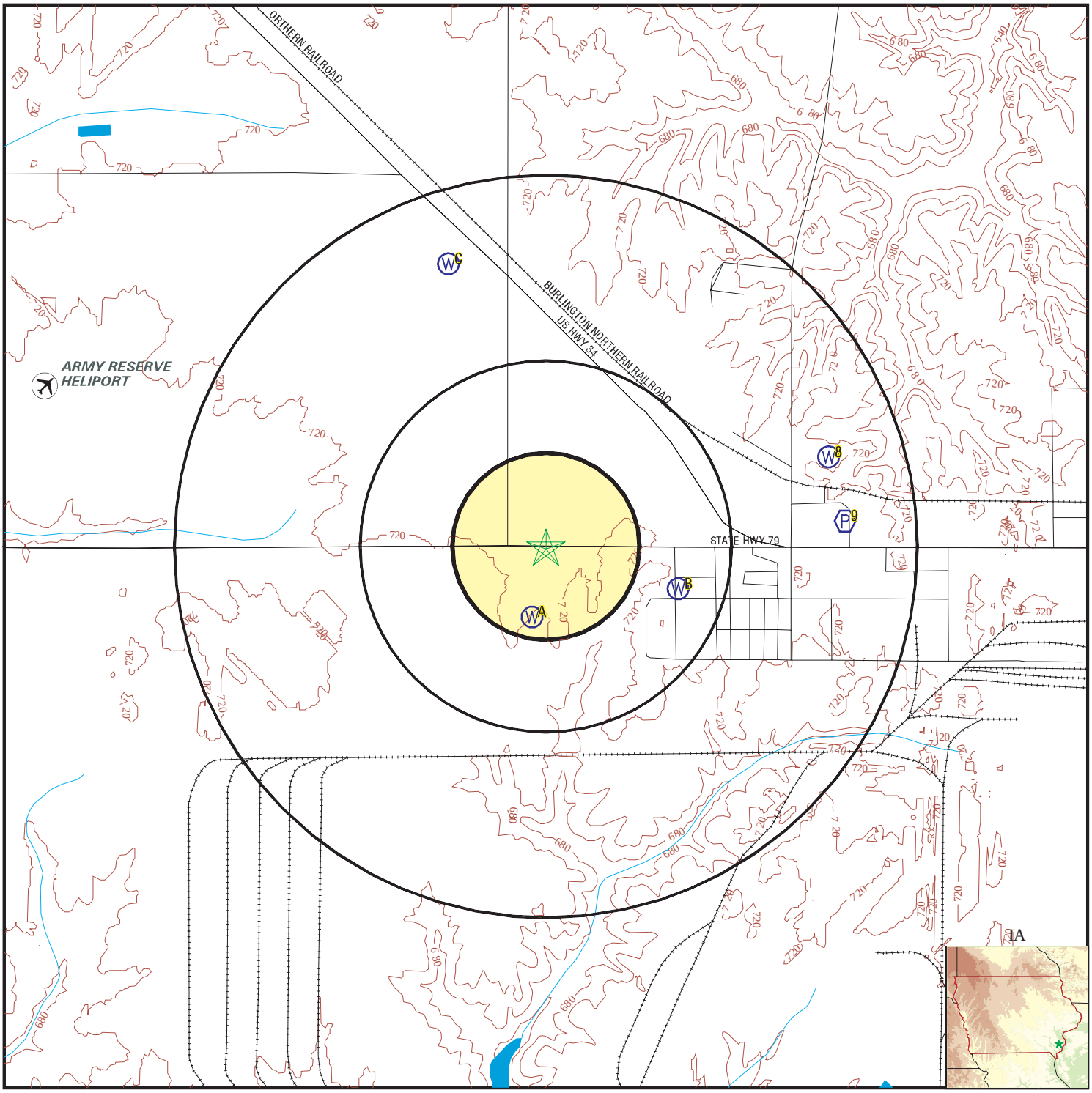
MAP ID	WELL ID	LOCATION FROM TP
9	IA2900604	1/2 - 1 Mile East

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	IA30000956	1/8 - 1/4 Mile SSW
A2	IA30000952	1/8 - 1/4 Mile South
A3	IA30000953	1/8 - 1/4 Mile South
A4	IA30000954	1/8 - 1/4 Mile South
B5	IA30000960	1/4 - 1/2 Mile ESE
B6	IA30000962	1/4 - 1/2 Mile ESE
C7	IA30001021	1/2 - 1 Mile NNW
C10	IA30001022	1/2 - 1 Mile NNW
C11	IA30001023	1/2 - 1 Mile NNW

PHYSICAL SETTING SOURCE MAP - 01715536.177r



0 1/4 1/2 1 Miles

- 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
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location

SITE NAME:	BURLINGTON MEMORIAL USARC	CLIENT:	FMSM Engineers
ADDRESS:	17879 HIGHWAY 79 MIDDLETOWN IA 52638	CONTACT:	Robert Newman
		INQUIRY #:	01715536.177r
LAT/LONG:	40.8271 / 91.2744	DATE:	July 14, 2006

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Map ID Direction Distance Elevation		Database	EDR ID Number
A1 **SSW** **1/8 - 1/4 Mile** **Lower**		**IA WELLS**	**IA30000956**

Well Type:	Private Well Tracking System		
Wellnmbr:	2082994	Permit #:	12180
Tier #:	70	Range #:	4
Range Dir:	W	Section #:	36
Qqqqq:	NW NW NW NW SE	Elevation:	720
Elev acc:	30 m. DEM	Well depth:	0
Water depth:	-99		
Latn:	40.8264		
Longn:	-91.2751		
Date Built:	Not Reported	County #:	0
County:	Des Moines		
Driller:	unknown		
Driller cmpy:	unknown		
Owner name:	Henderson, Todd		
Cnstr mthd:	Not Reported		
Remarks:	Not Reported		
Well use:	Monitoring	Status:	Retired
Heat pump #:	0	Permitted?:	X
Plugged?:	Not Reported	Renovated?:	Not Reported
Test Well:	Not Reported		
Xcoord:	0		
Ycoord:	0		
Use text:	Monitoring	Lithology:	0

A2 **South** **1/8 - 1/4 Mile** **Lower**		**IA WELLS**	**IA30000952**

Well Type:	Private Well Tracking System		
Wellnmbr:	2083001	Permit #:	12182
Tier #:	70	Range #:	4
Range Dir:	W	Section #:	36
Qqqqq:	NW NW NW SW NE	Elevation:	720
Elev acc:	30 m. DEM	Well depth:	0
Water depth:	-99		
Latn:	40.8262		
Longn:	-91.2751		
Date Built:	Not Reported	County #:	0
County:	Des Moines		
Driller:	unknown		
Driller cmpy:	unknown		
Owner name:	Enfield, Jeff		
Cnstr mthd:	Not Reported		
Remarks:	Not Reported		
Well use:	Monitoring	Status:	Retired
Heat pump #:	0	Permitted?:	X
Plugged?:	Not Reported	Renovated?:	Not Reported
Test Well:	Not Reported		
Xcoord:	0		
Ycoord:	0		
Use text:	Monitoring	Lithology:	0

Map ID Direction Distance Elevation		Database	EDR ID Number
A3 **South** **1/8 - 1/4 Mile** **Lower**		**IA WELLS**	**IA30000953**

Well Type:	Private Well Tracking System		
Wellnmbr:	2083002	Permit #:	12182
Tier #:	70	Range #:	4
Range Dir:	W	Section #:	36
Qqqqq:	NW NW NW SW NE	Elevation:	720
Elev acc:	30 m. DEM	Well depth:	0
Water depth:	-99		
Latn:	40.8262		
Longn:	-91.2751		
Date Built:	Not Reported	County #:	0
County:	Des Moines		
Driller:	unknown		
Driller cmpy:	unknown		
Owner name:	Enfield, Jeff		
Cnstr mthd:	Not Reported		
Remarks:	Not Reported		
Well use:	Monitoring	Status:	Retired
Heat pump #:	0	Permitted?:	X
Plugged?:	Not Reported	Renovated?:	Not Reported
Test Well:	Not Reported		
Xcoord:	0		
Ycoord:	0		
Use text:	Monitoring	Lithology:	0

A4 **South** **1/8 - 1/4 Mile** **Lower**		**IA WELLS**	**IA30000954**

Well Type:	Private Well Tracking System		
Wellnmbr:	2083003	Permit #:	12182
Tier #:	70	Range #:	4
Range Dir:	W	Section #:	36
Qqqqq:	NW NW NW SW NE	Elevation:	720
Elev acc:	30 m. DEM	Well depth:	0
Water depth:	-99		
Latn:	40.8262		
Longn:	-91.2751		
Date Built:	Not Reported	County #:	0
County:	Des Moines		
Driller:	unknown		
Driller cmpy:	unknown		
Owner name:	Enfield, Jeff		
Cnstr mthd:	Not Reported		
Remarks:	Not Reported		
Well use:	Monitoring	Status:	Retired
Heat pump #:	0	Permitted?:	X
Plugged?:	Not Reported	Renovated?:	Not Reported
Test Well:	Not Reported		
Xcoord:	0		
Ycoord:	0		
Use text:	Monitoring	Lithology:	0

Map ID Direction Distance Elevation		Database	EDR ID Number
B5 **ESE** **1/4 - 1/2 Mile** **Higher**		**IA WELLS**	**IA30000960**

Well Type:	Private Well Tracking System		
Wellnmbr:	2104292	Permit #:	Not Reported
Tier #:	70	Range #:	4
Range Dir:	W	Section #:	25
Qqqqq:	SW SE SE SW SE	Elevation:	724
Elev acc:	30 m. DEM	Well depth:	150
Water depth:	-99		
Latn:	40.8273		
Longn:	-91.268		
Date Built:	Not Reported	County #:	0
County:	Des Moines		
Driller:	unknown		
Driller cmpy:	unknown		
Owner name:	Kassel, Paul		
Cnstr mthd:	Rotary		
Remarks:	Not Reported		
Well use:	Not Reported	Status:	Active
Heat pump #:	0	Permitted?:	Not Reported
Plugged?:	Not Reported	Renovated?:	Not Reported
Test Well:	X		
Xcoord:	0		
Ycoord:	0		
Use text:	Not Reported	Lithology:	0

B6 **ESE** **1/4 - 1/2 Mile** **Higher**		**IA WELLS**	**IA30000962**

Well Type:	Private Well Tracking System		
Wellnmbr:	2076706	Permit #:	10632
Tier #:	70	Range #:	4
Range Dir:	W	Section #:	25
Qqqqq:	SW SE SE SE SE	Elevation:	723
Elev acc:	30 m. DEM	Well depth:	0
Water depth:	-99		
Latn:	40.8274		
Longn:	-91.2672		
Date Built:	Not Reported	County #:	0
County:	Des Moines		
Driller:	unknown		
Driller cmpy:	unknown		
Owner name:	Ellerhoff, Ronald D.		
Cnstr mthd:	Not Reported		
Remarks:	Not Reported		
Well use:	Household	Status:	Retired
Heat pump #:	0	Permitted?:	X
Plugged?:	Not Reported	Renovated?:	Not Reported
Test Well:	Not Reported		
Xcoord:	0		
Ycoord:	0		
Use text:	Household	Lithology:	0

Map ID Direction Distance Elevation	Database	EDR ID Number
C7 **NNW** **1/2 - 1 Mile** **Higher**	**IA WELLS**	**IA30001021**

Well Type:	Private Well Tracking System		
Wellnmbr:	2105905	Permit #:	Not Reported
Tier #:	70	Range #:	4
Range Dir:	W	Section #:	26
Qqqqq:	NE NE NW SE SW	Elevation:	728
Elev acc:	30 m. DEM	Well depth:	172
Water depth:	45		
Latn:	40.8399		
Longn:	-91.2792		
Date Built:	Not Reported	County #:	0
County:	Des Moines		
Driller:	unknown		
Driller cmpy:	unknown		
Owner name:	Not Reported		
Cnstr mthd:	Unknown		
Remarks:	Not Reported		
Well use:	Not Reported	Status:	Plugged
Heat pump #:	0	Permitted?:	Not Reported
Plugged?:	X	Renovated?:	Not Reported
Test Well:	Not Reported		
Xcoord:	0		
Ycoord:	0		
Use text:	Not Reported	Lithology:	0

---

8 **ENE** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS2535663**

Agency cd:	USGS	Site no:	404950091153501
Site name:	070N04W25DACB 01550 1942MIDDLETOWN NO 1		
Latitude:	404950		
Longitude:	0911535	Dec lat:	40.8305934
Dec lon:	-91.25987205	Coor meth:	M
Coor accr:	U	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	19
State:	19	County:	057
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	722.00	Altitude method:	U
Altitude accuracy:	Not Reported	Altitude datum:	NGVD29
Hydrologic:	FlintHenderson. Illinois, Iowa. Area = 2350 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19420000
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:	PLEISTOCENE SERIES		
Well depth:	200	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:	1942-05-02
Water quality data end date:	1942-05-02	Water quality data count:	1
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

9
East
1/2 - 1 Mile
Higher

FRDS PWS **IA2900604**

PWS ID:	IA2900604	PWS Status:	Active
Date Initiated:	7706	Date Deactivated:	Not Reported
PWS Name:	KERRWOOD MOBILE HOME PARK RURAL ROUTE 1 MIDDLETOWN, IA 52638		
Addressee / Facility:	Not Reported		
Facility Latitude:	40 49 41	Facility Longitude:	091 15 32
City Served:	Not Reported		
Treatment Class:	Untreated	Population:	00000026

PWS currently has or had major violation(s) or enforcement: No

---

C10
NNW
1/2 - 1 Mile
Higher

IA WELLS **IA30001022**

Well Type:	Private Well Tracking System		
Wellnmbr:	2105902	Permit #:	Not Reported
Tier #:	70	Range #:	4
Range Dir:	W	Section #:	26
Qqqqq:	NE NE NW SE SW	Elevation:	728
Elev acc:	30 m. DEM	Well depth:	42
Water depth:	20		
Latn:	40.8401		
Longn:	-91.2795		
Date Built:	Not Reported	County #:	0
County:	Des Moines		
Driller:	unknown		
Driller cmpy:	unknown		
Owner name:	Not Reported		
Cnstr mthd:	Auger		
Remarks:	Not Reported		
Well use:	Not Reported	Status:	Plugged
Heat pump #:	0	Permitted?:	Not Reported
Plugged?:	X	Renovated?:	Not Reported
Test Well:	Not Reported		
Xcoord:	0		
Ycoord:	0		
Use text:	Not Reported	Lithology:	0

Map ID Direction Distance Elevation		Database	EDR ID Number
C11 **NNW** **1/2 - 1 Mile** **Higher**		**IA WELLS**	**IA30001023**

Well Type:	Private Well Tracking System		
Wellnmbr:	2105903	Permit #:	Not Reported
Tier #:	70	Range #:	4
Range Dir:	W	Section #:	26
Qqqqq:	NE NE NW SE SW	Elevation:	728
Elev acc:	30 m. DEM	Well depth:	172
Water depth:	48		
Latn:	40.8401		
Longn:	-91.2795		
Date Built:	Not Reported	County #:	0
County:	Des Moines		
Driller:	unknown		
Driller cmpy:	unknown		
Owner name:	Not Reported		
Cnstr mthd:	Cable		
Remarks:	Not Reported		
Well use:	Not Reported	Status:	Plugged
Heat pump #:	0	Permitted?:	Not Reported
Plugged?:	X	Renovated?:	Not Reported
Test Well:	Not Reported		
Xcoord:	0		
Ycoord:	0		
Use text:	Not Reported	Lithology:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: IA Radon

Radon Test Results

Zip	Min pCi/L	Max	Avg	# sites	# sites<4pCi/L	# sites>=4	# sites>=10	# sites>=20	# sites>=50	# sites>=100
52638	0.1	82.2	2.2	446	404	42	16	7	2	0

Federal EPA Radon Zone for DES MOINES County: 1

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for DES MOINES COUNTY, IA

Number of sites tested: 20

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	9.633 pCi/L	33%	33%	33%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	7.915 pCi/L	30%	65%	5%

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

Iowa Municipal Wells and Surface Water Intakes
Source: Iowa Department of Natural Resources, Geological Survey
Telephone: 319-335-1353

Iowa Permitted Private Wells
Source: Iowa Department of Natural Resources, Geological Survey
Telephone: 319-335-1353

Iowa Private Well Tracking System Wells
Source: Iowa Department of Natural Resources, Geological Survey
Telephone: 319-335-1353

OTHER STATE DATABASE INFORMATION

RADON

State Database: IA Radon
Source: Department of Public Health
Telephone: 515-281-4340
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

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Fax To: FMSM Engineers
Contact: Robert Newman
Fax : 502-212-5055
Date: 07/14/2006

Fax From: Jeff Weiss
EDR
Phone: 1-800-352-0050

EDR PUR-IQ® Report

"the intelligent way to conduct historical research"

for
BURLINGTON MEMORIAL USARC
17879 HIGHWAY 79
MIDDLETOWN, IA 52638
Lat./Long. 40.82710 / 91.27440
EDR Inquiry # 01715536.177r

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 Des Moines County, IA.

2. Fire Insurance Map: When you order online any EDR Package or the EDR Radius Map with EDR Sanborn Map Search/Print, you receive site specific Sanborn Map coverage information at no charge.

3. Aerial Photograph: Aerial photography coverage may exist for portions of Des Moines County. Please contact your EDR Account Executive for information about USGS photos available through EDR.

4. Topographic Map: The USGS 7.5 min. quad topo sheet(s) associated with this site:

Historical: Coverage exists for Des Moines County

Current: Target Property: TP | 1981 | 40091-G3 Danville, IA

EDR's network of professional researchers, located throughout the United States, accesses the most extensive national collections of city directory, fire insurance maps, aerial photographs and historical topographic map resources available for MIDDLETOWN, IA. 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

FMSM Engineers
Robert Newman
Account # 1022764

BURLINGTON MEMORIAL USARC
17879 HIGHWAY 79
MIDDLETOWN, IA 52638
Des Moines County
Lat./Long. 40.82710 / 91.27440
EDR Inquiry # 01715536.177r

Should you wish to change or add to your order, fax this form to your EDR account executive:

Jeff Weiss
Ph: 1-800-352-0050 Fax: 1-800-231-6802

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___ EDR City Directory Abstract

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___ USGS Aerial 5 Package

___ USGS Aerial 3 Package

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___ Paper Current USGS Topo (7.5 min.)

___ Environmental Lien Search

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___ EDR Telephone Interview

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___ Express, Second Day Delivery
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___ U.S. Mail

Thank you

The EDR-City Directory
Abstract

BURLINGTON MEMORIAL USARC
17879 HIGHWAY 79
MIDDLETOWN, IA 52638

Inquiry Number: 1715536.181

Tuesday, July 18, 2006

EDR® Environmental Data Resources Inc

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR City Directory Abstract

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening report designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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SUMMARY

- ***City Directories:***

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1996 through 2005. (These years are not necessarily inclusive.) A summary of the information obtained is provided in the text of this report.

Date EDR Searched Historical Sources: July 18, 2006

Target Property:
17879 HIGHWAY 79
MIDDLETOWN, IA 52638

Year	***Uses***	***Source***
1996	US Army Reserve Ctr	Polk's City Directory
2001	US Army Reserve Ctr	Polk's City Directory
2005	US Army Reserve Ctr	Polk's City Directory

Adjoining Properties

SURROUNDING

Multiple Addresses
MIDDLETOWN, IA 52638

Year	***Uses***	***Source***
1996	****HIGHWAY 79****	Polk's City Directory
	No other addresses 17700-17999	Polk's City Directory
	****180TH AVE****	Polk's City Directory
	Residence (11002)	Polk's City Directory
2001	****HIGHWAY 79****	Polk's City Directory
	No other addresses 17700-17999	Polk's City Directory
	****180TH AVE****	Polk's City Directory
	Not Verified (11002)	Polk's City Directory
2005	****HIGHWAY 79****	Polk's City Directory
	No other addresses 17700-17999	Polk's City Directory
	****180TH AVE****	Polk's City Directory
	Residence (11002)	Polk's City Directory