

FINAL
**ENVIRONMENTAL CONDITION OF PROPERTY
REPORT**

**WAUKEGAN ARMED FORCES RESERVE CENTER (AFRC)
(IL074)
WAUKEGAN, ILLINOIS 60085**

Prepared For:

**U.S. Army Corps of Engineers – Louisville District
Engineering Division – Environmental Engineering Branch
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APRIL 2007

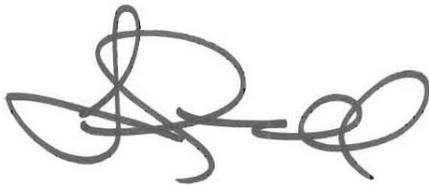
CERTIFICATION

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

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

DATE

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



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

DATE

Executive Summary

CH2MHILL, under contract to the United States Army Corps of Engineers, Louisville District, has prepared this Environmental Condition of Property (ECP) Report for the Waukegan Armed Forces Reserve Center (AFRC) (Facility ID IL074), hereafter referred to as the "Property" or "AFRC." The Property is located at 1721 North McAree Road, Waukegan, Lake County, Illinois, 60085, and encompasses approximately 4.5 acres.

This ECP Report was conducted in conformance with the Department of Defense's Base Redevelopment and Realignment Manual, DoD 4165.66-M, Army Regulation 200-1, and the American Society for Testing and Materials Designation D6008-96 (2005), *Standard Practice for Conducting Environmental Baseline Surveys*.

This ECP Report details the history of the property, including the U.S. Army Reserve and any prior tenant uses of the Property and the resulting environmental condition of the Property. The AFRC is on approximately 4.5 acres of land with seven permanent structures (listed square footages are approximate), including a 3,339-square-foot organizational maintenance shop (OMS) Building, a 7,176-square-foot Administration Building, with an approximate 7,000-square-foot Drill Hall, a 3,680-square-foot Naval Add-On building, a 10,596-square-foot Naval (U.S. Marine Corps [USMC]) Addition, a 4,876-square-foot garage, and a 1,242-square-foot Wash Rack Building. The Property is currently occupied by four units: U.S. Army 6th Brigade (Professional Development), 100th Division (Institutional Training), USMC 2nd Battalion, and 24th Marines Weapons Company.

Based on a review of aerial photographs and U.S. Geological Survey topographical maps dating back to 1908, the Property and adjacent properties were undeveloped. The 1953 aerial shows the Property and adjacent properties as being undeveloped. The Administration and OMS Buildings on the Property were constructed in 1958. The Naval Add-On and the Naval (USMC) Addition were constructed in 1964, the garage was constructed in 1994, and the Wash Rack Building was constructed in 2004. The Property has always served as the AFRC since the U.S. Government acquired the property in 1956.

Areas of potential environmental concern were reviewed and CH2M HILL identified the following relating to the environmental condition of the Property: nine underground storage tanks are or were previously present at the AFRC. Four of the nine tanks contained No. 2 fuel oil and were removed in 1995. A leaking underground storage tank on the Property was remediated and granted no further action in 1996. It is unknown whether the other five tanks remain on the Property.

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

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Abbreviations and Acronyms

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

ACM	asbestos-containing material
AFRC	Armed Forces Reserve Center
AR	army regulation
AST	aboveground storage tank
ASTM	American Society for Testing and Materials
bgs	below ground surface
BRAC	Base Realignment and Closure
BRRM	Base Redevelopment and Realignment Manual
CAT	Category List (Database)
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	CERCLA Information System
CFR	Code of Federal Regulations
CORRACTS	Resource Conservation and Recovery Act corrective action
DoD	Department of Defense
DRMO	Defense Reutilization and Marketing Office
ECP	environmental condition of property
EDR	Environmental Data Resources, Inc.
ERNS	Emergency Response Notification System
FEMA	Federal Emergency Management Agency
HES	Harza Environmental Services, Inc.
HUD	Housing Urban Development
ICUZ	Installation Compatible-Use Zone
IEPA	Illinois Environmental Protection Agency
IL NIPC	Illinois Northeastern Illinois Planning Commission
JTI	Jones Technologies, Inc.
kg	kilogram
LBP	lead-based paint

LUST	leaking underground storage tank
MEC	munitions and explosives of concern
MEP	military equipment parking
msl	mean sea level
NFA	no further action
NPL	National Priorities List
NRHP	National Register of Historic Places
OMS	organizational maintenance shop
OWS	oil/water separator
PCB	polychlorinated biphenyl
pCi/L	picoCuries per liter of air
PID	photoionization detector
POL	petroleum, oil, and lubricant
POV	privately owned vehicle
RCRA	Resource Conservation and Recovery Act
RCRIS	RCRA Information System
ROD	Record of Decision
RRC	Regional Readiness Command
SHWS	State Hazardous Waste Site
STATSGO	State Soil Geographic Database
TACO	Tiered Approach to Corrective Actions Objectives
TSD	treatment, storage, or disposal
US ENG	U.S. Engineering (Controls)
USACE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency
USGS	U.S. Geological Survey
USMC	U.S. Marine Corps
UST	underground storage tank
VOC	volatile organic compound
VWF	vehicle wash facility
WSR	wild and scenic river
WWES	WW Engineering & Science, Inc.

1 Introduction

CH2M HILL, under contract to the U.S. Army Corps of Engineers (USACE) Louisville District Engineering Division, was authorized to conduct an Environmental Condition of Property (ECP) report for the Waukegan Armed Forces Reserve Center (AFRC) (Facility ID IL 074). The facility is located at 1721 North McAree Road, Waukegan, Lake County, Illinois, and is hereafter referred to as the "Property" or "AFRC." CH2M HILL prepared this ECP report under contract number W912QR-04-D-0020, Task Order No. 0018, with the Louisville District USACE.

A visual non-intrusive reconnaissance of the Property was conducted on July 27, 2006, in support of the ECP. The reconnaissance purpose was to visually obtain information indicating the likelihood of recognized environmental conditions associated with the Property or adjacent properties.

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

1.1 Purpose of Environmental Condition of Property

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

- Provide the Army with information it may use to make disposal decisions.
- Provide the public with information relative to the environmental condition of the Property.
- Assist in community planning for the reuse of Base Realignment and Closure (BRAC) property.
- Assist federal agencies during the property screening process.
- Provide information for prospective buyers.
- Assist prospective new owners in meeting the requirements under U.S. Environmental Protection Agency's (USEPA) "All Appropriate Inquiry" regulations.
- Provide information about completed remedial and corrective actions at the property.

- Assist in determining appropriate responsibilities, asset valuation, and liabilities with other parties to a transaction.

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

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

1.2 Scope of Services

This ECP report covers the 4.5-acre AFRC located at 1721 North McAree Road, Waukegan, Illinois 60085. All site maps, figures and aerial photographs referenced herein are provided in Appendix A, while Appendix B contains the photographs taken on the July 27, 2006 site reconnaissance. Appendix C contains Property records and chain of title information. Relevant historical environmental documents and reports are provided in Appendix D, while Appendix E contains the Environmental Data Resources, Inc. (EDR) radius search reports commissioned for this effort.

This ECP report classifies the property into one of seven DoD Environmental ECP categories as defined by the DoD policy defining the classifications (see Sherri Goodman Memorandum dated 21 October 1996). The property classification categories are as follows:

- ECP Area Type 1— An area or parcel of real property where no release or disposal of hazardous substances or petroleum products or their derivatives has occurred (including no migration of these substances from adjacent properties).
- ECP Area Type 2— An area or parcel of real property where only the release or disposal of petroleum products or their derivatives has occurred.
- ECP Area Type 3— An area or parcel of real property where release, disposal, or migration, or some combination thereof, of hazardous substances has occurred, but at concentrations that do not require a removal or remedial action.
- ECP Area Type 4— An area or parcel of real property where release, disposal, or migration, or some combination thereof, of hazardous substances has occurred and all

remedial actions necessary to protect human health and the environment have been taken.

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

2 Site Location and Physical Description

2.1 Site Location

The Waukegan AFRC is located in Lake County, on the northwestern side of the city of Waukegan, Illinois, at 1721 North McAree Road (Appendix A, Figure 1). The 4.5-acre property is situated off of the main thoroughfare, North McAree Road, and is surrounded on other property boundaries by an access road and open field for high-voltage electrical power lines, an elementary school, and residential development.

2.2 Asset Information

Facility Name and Address:	Waukegan AFRC 1721 North McAree Road Waukegan, Illinois
Property Owner:	U.S. Government
Date of Ownership:	1956
Current Occupant:	U.S. Army 6th Brigade (Professional Development), 100th Division (Institutional Training), U.S. Marine Corps (USMC) 2nd Battalion, 24th Marines Weapons Company
Zoning:	Not Subject to County Zoning
County, State:	Lake, Illinois
U.S. Geological Survey (USGS) Quadrangle(s):	Zion, Illinois
Section/Township/Range:	Section 17, Township 45 North, Range 12 East
Latitude/longitude:	42 23' 3.8"N; 87 51'54.7"W
Legal Description:	The AFRC includes 4 parcels of land, described in the warranty deed as Tracts A-100, A-100-E-1, A-100-E-2, and A-101-E.

2.3 Physical Description

The Waukegan AFRC is located on a 4.5-acre property on the northwestern side of the city of Waukegan, Illinois. The Property is located on the USGS 7.5-Minute Zion Quadrangle map, at an average elevation of 687 feet mean sea level (msl). The topography is generally flat, with a slight decrease in elevation toward the southwest corner of the parcel.

The AFRC contains a military equipment parking (MEP) area, a privately owned vehicle (POV) parking area, and four permanent structures (Appendix A, Figures 2-4):
1) organizational maintenance shop (OMS) Building; 2) Administration Building, with

respective Drill Hall, Naval Add-On, and Naval (USMC) Addition; 3) a garage; and 4) a Wash Rack Building. Construction of the Administration Building and OMS Building was completed in 1958. In 1960, the OMS Building was expanded. In 1964, the Naval Add-On and Naval (USMC) Addition were constructed. More recent development included the construction of a garage in 1994 and Wash Rack Building in 2004. All structures are on concrete foundations and, with the exception of the garage, the buildings consist of concrete block walls covered with a brick veneer. The garage consists of aluminum walls. An MEP area and a POV parking area also are contained within the Property. Chain-link security fencing topped with barbed wire encloses the perimeter of the Property.

Impervious surface features such as asphalt parking areas, driveways, concrete walkways, and building footprints cover approximately one-third of the Property. The remaining land is grassed with a sparse population of deciduous trees and bushes throughout the Property.

The Administration Building is an approximately 7,176-square-foot, irregular-shaped, one-level structure, with a large, two-story, 7,000-square-foot Drill Hall connected by a one-story enclosed corridor and is occupied by the U.S. Army 6th Brigade (Professional Development), 100th Division (Institutional Training) (Appendix B, Photograph 1). The building's interior consists of office space, classrooms, kitchen area, storage, Drill Hall, and a sublevel boiler room. According to the AFRC personnel, the boiler room underwent infrastructural modifications prior to 1996. Examples of the main items removed include two boilers, with associated concrete pads, two hot water converters, one condensate pump, with associated concrete pad, and a natural gas fuel train.

Naval Add-On

The Naval Add-On is an approximately 3,680-square-foot, one-story structure that was constructed in 1964. It is connected by the Administration Building and Naval (USMC) addition, and it is occupied by the U.S. Army 6th Brigade (Professional Development), 100th Division (Institutional Training). The building consists of administrative office space, classrooms, and the former Arms Vault. The former Arms Vault is presently used as storage.

Naval (USMC) Addition

The Naval (USMC) addition, with a respective garage, is an approximately 10,596-square-foot, two-story structure that was constructed in 1964. It is connected by the Naval Add-On and currently is occupied by the USMC 2nd Battalion, 24th Marines Weapons Company. The building's interior consists of office space, classrooms, storage, and armory. The garage is presently used for storage.

Garage

The garage, built in 1994, is an approximately 4,876-square-foot, large, open, two-story structure that is constructed on a concrete foundation, with aluminum walls and roof (Appendix B, Photograph 2). Its current uses predominately include the storage of miscellaneous boxes and bicycles. However, it may have been used for vehicle storage in the past.

OMS Building

The OMS Building is an approximately 3,339-square-foot vehicle maintenance building that was constructed in 1958 simultaneously with the Administration Building and attached Drill

Hall (Appendix B, Photograph 3). This building is constructed of a concrete foundation, asphalt roof, concrete block interior, and brick exterior. In 1960, the OMS Building was expanded. At the time of the site reconnaissance, the OMS Building was predominately used for the storage of equipment. However, there was limited storage of tires, oils, and gasoline in designated areas, along with solvents and paints in flammable materials storage cabinets located in the rear of the building. Historical uses included light vehicle maintenance, the operation of an oil water separator (OWS), vehicle wash facility (VWF), and a VWF grit trap, all of which were removed in 2001.

Vehicle Wash Area

The approximately 1,247-square-foot Wash Rack Building was completed in 2004. The structure contains a trench with a grit trap that is connected to an OWS located directly west of the building exterior (Appendix B, Photographs 4 and 5). The OWS discharges to the sanitary sewer. The southwestern wall possesses a large-diameter exhaust vent, which may be used for exhausting water vapor from the wash rack. There were also boxes of solvents and a fume hood that appeared to be unused at the time of the site reconnaissance. The remainder of the interior space is empty.

Grey and Green Container Express Boxes

These large Container Express containers were used to hold military equipment; however, interviews with AFRC personnel indicated these boxes were empty and access was denied during the site reconnaissance.

2.4 Site Hydrology and Geology

The Waukegan AFRC and the City of Waukegan is characterized by nearly level plains to gently rolling hills. Surface elevations range from 651 feet msl to 720 feet msl in the Waukegan area. Both the City of Waukegan and the Waukegan AFRC are displayed on the USGS 7.5-Minute Zion quadrangle map. The geologic environment includes Quaternary glacial deposits at shallow depths underlain by a stratified sequence of Silurian bedrock.

2.4.1 Surface Water Characteristics

Appendix A, Figure 5 provides a portion of the 1993 Zion, Illinois, USGS topographic map, which includes the Property. As shown, the Property is situated at an elevation of approximately 687 feet above msl and is relatively flat. General surface water flows in an easterly direction.

Storm water flows to storm drains located on adjacent properties. A culvert also is located in the grassy area toward the northeast corner of the Property. The direction of stormwater runoff varies with location within the Property, ranging from southwest along the southwestern portion of the site to northeastern along the northeastern portion of the site.

According to the 2005 Natural Resource Survey, there are no wetlands or surface water bodies on the Property. The nearest wetland is located approximately 650 feet south of the Property. Appendix A, Figure 18 provides a map of wetlands in the immediate vicinity of the Property. In addition, a pond is noted as being approximately 250 feet south of the Property (Parsons, 2005). An unnamed stream was also identified approximately 2,000 feet

west of the Property. Lake Michigan is located approximately 3 miles east. Approximately 1 mile east, a narrow intermittent stream is present.

According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map, Community Panel 1703970088F, the Property is not included in the 100-year floodplain elevation. Appendix A, Figure 6 provides a map depicting the extent of the nearest 100-year floodplain in relation to the Property.

2.4.2 Hydrogeological Characteristics

According to information acquired from the Soil Conservation Service's State Soil Geographic Database (STATSGO) for Lake County, specific types of soil at the Property are from the Morley Series. The Morley Series does not meet the requirements to be classified as a hydric soil.

The surface soil is generally a silt loam and is characterized as a soil with fine texture. This soil type has a slow infiltration rate and possesses layers that impede downward movement of water. In a typical profile, the surface layer is a silt loam that is approximately 9 inches thick. The subsoil is a silty clay and silty clay loam and is approximately 51 inches thick. Since the Morley silt loam possesses a low hydraulic conductivity, ranging from 1×10^{-9} to 1×10^{-7} cm/sec, during the months between March and May, a perched water table can occur at approximately 3 to 6 feet below ground surface (bgs). However, the regional water table aquifer is deeper, at a depth of approximately 25 to 50 feet bgs. General groundwater flow direction is to the southeast/east (Environmental Contractors of Illinois, Inc., 1995).

2.5 Site Utilities

Water Service – The City of Waukegan Water Department provides potable water service to the Property.

Sanitary Sewer System – The City of Waukegan provides sanitary sewer service to the Property. The primary source of wastewater that is directed to the city sewer system includes nonprocess wastewater (bathrooms, sinks, and so forth.) and vehicle washing runoff.

Gas and Electric – ComEd provides electric service to the Property. People's Energy provides natural gas service to the Property.

2.6 Water Supply Wells and Septic Systems

Based upon a review of available historical site and agency records and interviews with site personnel, neither a water supply well nor a septic system is or was located at the Property. Sanitary sewer lines were installed on the property by the City of Waukegan shortly after construction of the Administration Building, in 1959, and were extended in 1964, upon construction of the Naval Add-On and Naval (USMC) Addition. Potable water is supplied by the Waukegan Water Department and is derived from Lake Michigan. Water lines were installed by the City of Waukegan upon construction of the Administration and OMS Buildings in 1958 and 1960, respectively.

3 Site History

3.1 History of Ownership

According to the chain of title, the land was sold by the City of Waukegan to the U.S. Government for use by the Waukegan AFRC in 1956. USAR real property records indicate that the Property was transferred to the U.S. Government in 1957.

According to a City Directory provided by EDR, dated July 17, 2006, the address of the AFRC was first listed in the research source (Polk's City Directory) in 1963. Historical documentation supports the 1958 construction date of the AFRC. A copy of the City Directory is included in Appendix E.

3.2 Past Uses and Operations

Construction of the Administration Building, with respective Drill Hall, and OMS Building occurred in 1958. The OMS Building was expanded in 1960. Construction of the Naval Add-On and Naval (USMC) Addition occurred in 1964. A garage was constructed in 1994. Construction of the Wash Rack Building was completed in 2004. Historical information suggests that the Property was formerly an open field, which was owned by the City of Waukegan. The Property has always served as a reserve and mobilization center for the military since the U.S. Government acquired the land.

The Property primarily functioned as an administrative, logistical, educational, and training facility, with limited maintenance of military vehicles occurring in the OMS Building. The Property historically was used by reservists for drill activities on various weekends throughout the year. The U.S. Army 6th Brigade (Professional Development), 100th Division (Institutional Training) and the USMC 2nd Battalion, 24th Marines Weapons Company, presently occupy the AFRC. The mission of the 6th Brigade, 100th Division, is to provide training for officer education, whereas the mission of the 24th Marines is to provide specialized in-class training. At the time of the site reconnaissance, the administration building contained various items, including desks, office furniture, and folding tables.

The OMS Building was used to perform limited maintenance activities on military equipment. Activities inside the OMS Building were limited to preventative maintenance checks, including checking vehicle fluids such as motor oil, water, and antifreeze, and light maintenance activities. A MEP area is located south of the OMS, which served as parking for military vehicles.

At the time of the site reconnaissance, the larger, southernmost bays of OMS building, which are operated by the USMC, were predominately empty. Several military vehicles were observed directly south of the OMS building in the MEP area.

Vehicle washing historically would have occurred directly north of the OMS Building in the MEP area. A 15-foot-by-29.5-foot concrete slab served as the VWF, which included VWF grit trap, 2 feet by 1.5 feet by 6.5 feet in size, and a 350-gallon OWS. The OWS discharged into

the municipal sanitary sewer. The VWF, VWF grit trap, and OWS were removed in 2001 (Appendix A, Figure 7). A new Wash Rack Building, consisting of an exterior OWS and interior VWF grit trap, was constructed in 2004.

Historical aerial photographs and topographic maps were the primary source of information on the past use and operations at the Property. Appendix A, Figures 8–11 provide aerial views of the Property and surrounding areas in 1953, 1972, 1988, and 1994. Appendix A, Figures 12–15 provide USGS topographic maps of the Property and surrounding areas in 1908, 1960, 1960–1972, 1960–1980, and 1993.

The 1908 USGS 15-Minute Topographical Map (Appendix A, Figure 12) showed the regional area surrounding the Property as undeveloped. The City of Waukegan was established to the southeast. The 1953 aerial photograph (Appendix A, Figure 8) showed the Property and areas to the south, west, and east as undeveloped. To the north, electrical power lines were visible in an open field, similar to that of the present. Small-scale structures were visible directly west of McAree Road, suggesting residential use near the Property. The City of Waukegan was established to the southeast and to a lesser extent, to the northeast.

The 1960 USGS 7.5-Minute Topographic Map (Appendix A, Figure 13) displayed the presence of the Administration Building, with Drill Hall, and the OMS Building on the Property. Directly west and south of the Property remained undeveloped. However, to the east, Clearview Elementary School was identified. The 1960–1972 USGS 7.5-Minute Topographic Map (Appendix A, Figure 14) displayed the construction of the Naval Add-On and Naval (USMC) Addition on the Property. The adjacent properties to the west and to the south were identified as possessing structures, such as the Housing Urban Development (HUD) area, apartments, Clearview Park, and other residential buildings that were observed during the site reconnaissance. In the 1972 USGS aerial photograph (Appendix A, Figure 9), the Administration Building, with respective Drill Hall, OMS Building, Naval Add-On, Naval (USMC) Addition, adjacent school (east), and residential buildings (west and south), were visible. The 1960–1980 USGS 7.5-Minute Topographic Map (Appendix A, Figure 15) shows no further development on the Property and adjacent lots.

The 1988 aerial photograph indicated (Appendix A, Figure 10) that there was municipal development directly southwest of the Property, across McAree Road. The facility was inferred to be the City of Waukegan Public Works. Neither the Property nor its adjoining properties were identified to have undergone further development.

The 1993 USGS 7.5-Minute Topographic Map (Appendix A, Figure 5) and 1994 aerial photograph (Appendix A, Figure 11) showed that there had been some development in the region, but little to none in adjacent areas surrounding the Property. Even though a garage was built on the Property in 1994, it was not visible in the 1994 aerial photograph.

None of the aerial photos suggested that excavation, dumping, large-scale storage, or staining existed on the site or adjacent properties.

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

3.3.1 Past Use and Storage of Hazardous Substances

Information related to the past use and storage of hazardous substances at the Property was compiled through review of available site records, search of federal and state environmental databases, and interviews with Army and Marine Corps Reserve personnel. Chemicals formerly used and stored at the Property were associated with vehicle and facility maintenance activities, as well as janitorial services. Janitorial chemicals and building maintenance-related products were stored in the designated storage area within the janitorial closet located within the Naval (USMC) Addition. Vehicle maintenance products and small amounts of petroleum, oil, and lubricant (POL) products, solvents, and paints were also stored within designated areas in the OMS Building. Other potentially hazardous materials and POL products were stored in the outdoor hazardous material storage shed located southwest of the garage, within the POV area. Additional hazardous materials stored at this facility included batteries, acids, adhesives, paints, coolant, lighter fluid, insect repellent, and other various solvents.

3.3.2 Past Disposal and Release of Hazardous Substances

Information related to past disposal and potential release of hazardous substances at the Property was compiled through review of available site records, search of federal and state environmental databases, and interviews with Army and Marine Corps Reserve personnel. Disposal of hazardous materials and hazardous waste had been accomplished through the Defense Reutilization and Marketing Office (DRMO) or an authorized vendor, such as Safety-Kleen.

In the OMS Building, a board lodged under the flammable materials cabinets covered the building floor. The condition of the Property at that particular spot is unknown. Near the overhead doors and adjacent to three gasoline containers, a pool of liquid roughly 2 feet by 1 feet in size was observed approximately 2 feet from the joint in the concrete floor where the floor and exterior cinder block wall meet. There was no visual evidence that the liquid had reached this joint or migrated to the outside environment (Appendix B, Photograph 6).

Inside the Administration Building, stains were observed on the concrete floor in an office. Near the Drill Hall exterior door, an oily residue from a possible previous oil spill was observed. In the boiler room, oil residue surrounding two floor drains was observed (Appendix B, Photographs 8 and 9). There is no evidence that the stains were released to the environment. Previous records indicated the presence of "waste stains" on the Store room floor. Stressed vegetation was observed in the MEP area, and it is possibly due to the military vehicles parked in that area (Appendix B, Photograph 10). No stained soil was observed during the site reconnaissance.

3.4 Past Presence of Bulk Petroleum Storage Tanks

Based upon a review of available site records, a search of federal and state environmental databases, and interviews with the U.S. Army and Marine Corps Reserve personnel, nine

underground storage tanks (USTs) historically were located at this facility. Five of these UST tanks, ranging from 1,000 gallons to 5,000 gallons, held diesel fuel and are presently onsite, but are permanently out of use. Four of the tanks contained No. 2 fuel oil, which ranged from 550 gallons to 6,000 gallons, were removed in 1995. Upon removal, one UST was identified to have been a leaking underground storage tank (LUST) (Appendix A, Figure 16).

A Corrective Action Plan for the LUST (Incident Number 941954) was submitted to the Illinois Environmental Protection Agency (IEPA). In 1995, approximately 120 cubic yards of soil was excavated and transported to Countryside Landfill, Grayslake, Illinois (**Appendix A**, Figure 17). Elevated levels of chrysene that were detected in two soil samples exceeded the IEPA cleanup objectives. However, no chrysene was detected in groundwater samples. A no further action (NFA) report was submitted to the IEPA, and the IEPA has concurred that NFA was needed regarding these tank removals in a letter dated January 18, 1996. No additional information is available regarding the location and present status of the remaining five USTs. Available records did not indicate that any aboveground storage tanks (AST) currently or formerly are located at this facility.

3.5 Review of Previous Environmental Reports

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

3.5.1 1995 45-Day Report

The report's objective was to discuss the status of four No. 2 fuel oil USTs that were removed by Environmental Contractors of Illinois, Inc. in 1995. A special focus was directed toward a 550-gallon UST that was located directly south of the Administration Building exterior, which was subsequently identified as a LUST. A brief discussion is provided on the tank removal process, tank cleaning and disposal, soil and groundwater sampling protocols, and remediation strategies. Approximately 120 cubic yards of soil were removed from the tank area, and 10 soil samples were collected after soil removal. One of the soil samples exceeded IEPA clean up objectives for chrysene. No other constituents were above these IEPA objectives in the other closure samples. Environmental Contractors of Illinois, Inc. did not recommend to remove any more soil or implement any remedial action. Attachments provided included hazardous waste manifests, water well records, site maps, laboratory analytical data, and photographs.

3.5.2 1995 Title V Determinations

WW Engineering & Science, Inc. (WWES) prepared a report discussing the air emission status of selected AFRCs located within the State of Illinois and determines the need for a Title V operating permit under Illinois' Clean Air Act Permit Program. This report was based on a two-phase survey that WWES conducted in 1995. Phase I consisted of conducting an emissions inventory survey for each facility, including Waukegan AFRC. Phase II consisted of developing facility descriptions, calculating potential and estimated actual emissions, determining emissions status, and investigating any associated permitting

requirements pertaining to each facility. WWES concluded that the Waukegan AFRC was not required to obtain a Title V Air Permit nor any other permits regarding potential emissions.

3.5.3 1998 Environmental Compliance Assessment Report

The Army Reserve performed an internal survey in 1996, listing and evaluating areas on the Property where environmental concerns were apparent. Four areas were noted as needing correction at the time of the assessment. These surveys stated that the Property did not have documentation on an indoor firing range that was converted into a kitchen many years ago, no training records for Hazardous Material Training, no documentation on the Installation Compatible-Use Zone (ICUZ) Study performed for noise, and trash was noticed in the OWS. None of the deficiencies observed posed an immediate risk to the environmental condition at the Property.

3.5.4 1998 Regional Support Command Oil/Water Separator Engineering Study

Harza Environmental Services, Inc. (HES) prepared a report summarizing the investigation and findings surrounding the condition of an OWS located at the Waukegan AFRC. The focus of the study included assessing the physical condition of the OWS and documenting the location, condition, maintenance/upgrade requirements system connections, discharge location, required operational permits, and potential liability for the OWS. The report stated that an OWS was located on the Property within the MEP area, near the northwestern end of the OMS building exterior. Trench drains, located at the outdoor wash rack near the OWS and the OMS Building, were connected to a sand trap, which was connected to the OWS. The OWS discharged westward to the sanitary sewer. The system was observed to be in good condition and was noted as being in compliance with regulatory requirements. HES indicated that the Waukegan Sanitary District did not require operating permits or routine sampling for sanitary sewer discharges.

3.5.5 2000 Illinois Section 110 Inventory—Cultural Resources Report

The Fort McCoy Archaeological Laboratory prepared a Section 110 cultural resources survey report for the facility for the 88th Regional Readiness Command (RRC) in November 1998–March 2000. The purpose of the survey and subsequent report was to inventory all properties controlled or leased by the 88th RRC in the State of Illinois. Historical information, setting and landscape, cultural resources, security, architectural information, and structure descriptions were included for each property. Each site also was assessed for its eligibility to the National Register of Historic Places (NRHP). No facilities at the Waukegan AFRC were eligible for listing on the NRHP.

3.5.6 2004 OWS System Closure Report

Jones Technologies, Inc. (JTI), prepared a 2004 report regarding the removal of an OWS, VWF, and VWF grit trap that occurred in 2001. The report discussed free-liquid removal/disposal strategies, information and condition of the OWS, VWF, and VWF grit trap at the time of removal, soil sampling methods, soil conditions, and analytical results. Upon removal, the OWS and VWF grit trap were observed to be in good condition. There was no evidence of leakage, spillage, or other conditions that would have indicated a release. Photoionization detector (PID) field screenings did not indicate any elevated

readings that might have been associated with a release. Laboratory analysis of soil samples collected from the OWS and VWF grit trap excavations showed no levels of volatile organic compounds (VOCs) or metals above the Tiered Approach to Corrective Actions Objectives (TACO) limits. Thus, the report recommended that NFA was necessary.

3.5.7 2006 Environmental Survey Report: Asbestos, Polychlorinated Biphenyls, Lead-Based Paint, and Radon Survey

ITI of South Florida, Inc., prepared an Environmental Survey Report in February 2006 for the Waukegan AFRC. Potential types, quantities, locations, and conditions of asbestos, polychlorinated biphenyls (PCBs), LBP, and radon were examined in the report. Asbestos and LBP were confirmed to be present in the Administration Building structure on the Property. No asbestos was confirmed in the OMS Building structure, but ITI presumed that asbestos was present nonetheless. LBP also was identified in the OMS Building. Additionally, light ballasts containing labels stating "No PCB's" were observed during the PCB survey in the Administration Building. Some ballasts were not labeled, and therefore unknown whether they contain PCBs. Three transformers mounted to a pole were also observed at the Property and presumed to contain PCBs. A PCB survey was not conducted for the OMS Building. In 2002, two rooms in the Administration Building were documented as possessing high radon readings. However, the report indicated that subsequent testing conducted in 2005 showed that radon levels were concluded to be below the USEPA-recommended action level of 4 picoCuries per liter (pCi/L). Radon levels in the OMS Building also were concluded to be below the USEPA-recommended action level of 4 pCi/L.

3.5.8 2005 Natural Resources Fact Sheet

In 2005, Natural Resource Surveys were prepared for 88th RRC facilities in Illinois (Parsons, 2005). The Natural Resource Fact Sheet for the Property indicates that there were no rare species reported by the Illinois Department of Natural Resources and that there is low potential for rare species habitat due to the lack of habitat on and surrounding the Property. No state listed species were identified within a 2-mile radius of the Property. Federally listed species identified in the County include the piping plover (endangered), karnar blue butterfly (endangered), eastern massasauga rattlesnake (federal candidate), dune thistle (threatened), and eastern prairie fringed orchid (threatened).

No wetlands or surface water bodies were identified on the Property; however, a wetland is located approximately 250 feet south of the Property. Isolated ponds are located 250 feet south of the Property. An unnamed stream was also identified approximately 2,000 feet west of the Property.

4 Adjacent Properties

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

4.1 Land Uses

Land use south of the AFRC consists of residential development, a Housing Urban Development (HUD) project, and Clearview Park.

Clearview Elementary School and residential development are located due east of the AFRC. A 1960 USGS 7.5-Minute Topographical Map (Figure 13), suggested that the school was constructed in or prior to 1960. Previous to that, the land was presumed to have been an open field.

The property directly north of the AFRC consists of an access road and easement of open field for high-voltage electrical power lines, which are serviced by ComEd. Residential development is also present north of the Property. Aerial photographs showed that these power lines were constructed during or prior to 1953.

Land use west of the Property consists of HUD apartment complexes, North McAree Road, and additional residential development. A 1960 USGS 7.5-Minute Topographical Map (Figure 13) suggests that residential development was constructed in or prior to 1960. Previous to that, the land was presumed to have been an open field.

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

TABLE 1
 List of Properties Adjacent to Waukegan AFRC, Waukegan, Illinois

Name/Type of Property	Address	Distance and Direction from Property	Zoning	Remarks
ComEd Access Road and Electrical Power lines	None	Approximately 100 ft north	Not subject to county zoning	Open field
Clearview Elementary School	1700 Delaware Rd Waukegan, IL 60087	Approximately 60 ft east	Not subject to county zoning	
HUD Residential Apartment Complexes	1719 N. McAree Rd Waukegan, IL 60087	Approximately 40 ft west	Not subject to county zoning	Multiple addresses
HUD Residential Apartment Complexes	1715 and 1717 N. McAree Rd Waukegan, IL 60087	Approximately 100 ft south	Not subject to county zoning	Multiple addresses

4.2 Findings

The EDR database search results were reviewed for any evidence that adjacent properties may have past or present environmental issues that would impact the AFRC. None of the adjacent properties that immediately bound the Waukegan AFRC possess any known environmental issue.

The City of Waukegan Public Works facility, located southwest of the Property, was listed as possessing 10 USTs. The USTs are listed as active and have no known associated environmental issues. The Waukegan Airport Watermain Ext., located on the same site as the Waukegan Public Works facility, was listed as a Resource Conservation and Recovery Act (RCRA)-registered large quantity generator. However, no known violations were recorded for this facility.

Water well databases at the federal and state level were reviewed to identify listed water supply sources near the Property. Twelve private water supply sources were listed as being located approximately 0.25–0.5 mile northwest of the Property. Nine are located west to southwest of the Property. The remaining three wells are located south, north, and northwest of the Property. All wells are listed as being installed at higher elevations than the site. Listed at approximately 0.5 to 1 mile from the site were 171 private and/or engineering wells. The majority of the wells were listed as private water supplies and installed at higher elevations west of the Property.

Land use at adjacent properties does not appear to have changed significantly over the years, based on a review of available aerial photographs and topographical maps. The property was predominately open fields. Development in the area advanced after 1953 and prior to 1972, based on the 1953 and 1972 aerial photographs and 1960 and 1960-1972 topographical maps. The aerial photographs and topographic maps suggested that many of the present-day structures on and surrounding the Property are a component of the original development. The 1960-1980 and the 1993 topographical maps and 1988 and 1994 aerial photographs indicated little change in the adjacent property land use.

5 Review of Regulatory Information

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

The majority of the regulatory information for this ECP was obtained from EDR on July 12, 2006. EDR provides a regulatory database summary that consolidates standard federal, state, local, and tribal environmental record sources based on ASTM D6008 recommended minimum search distances from the Property.

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

5.1 Federal Environmental Records

5.1.1 Federal National Priorities List Sites within 1 Mile

USEPA maintains a record of the nation's worst uncontrolled or abandoned hazardous waste sites, known as the NPL. Sites on the NPL undergo long-term remedial action under CERCLA.

The Waukegan AFRC is not an NPL site. The Yeoman Creek Landfill was identified as the only NPL site that is located within 1 mile of the Property.

5.1.2 Federal CERCLA Information Systems Sites within 0.5 Mile

The 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 Act. CERCLIS contains sites that are either proposed to be or are on the NPL and sites that are in the screening and assessment phase for possible inclusion on the NPL.

The Waukegan AFRC is not a CERCLIS site and there are no CERCLIS sites located within 0.5 mile of the AFRC. However, the Yeoman Creek Landfill was identified as such a site and located between 0.5 and 1 mile of the Property.

5.1.3 RCRA Corrective Action Sites within 1 Mile

RCRA corrective action (CORRACTS) sites represent facilities that have generated or managed hazardous wastes and require corrective action.

The Waukegan AFRC is not a CORRACTS site, nor were any such sites identified within 1 mile of the AFRC.

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

RCRA defines and regulates sites that generate, transport, or provide treatment, storage, or disposal (TSD) of hazardous wastes. The RCRA Information System (RCRIS) includes selective information on these sites.

The Waukegan AFRC is not a RCRIS-TSD site and there are no such sites located within 0.5 mile of the AFRC.

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

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

The Waukegan AFRC is listed as a conditionally exempt RCRA-registered small quantity generator. No RCRA violations are associated with the AFRC. The Waukegan Airport Watermain Ext. was identified as a large quantity generator that is located within 0.25-mile of the Center. No RCRA violations were noted for this site.

5.1.6 Federal Emergency Response Notification System List

The Emergency Response Notification System (ERNS) List maintains information on reported releases of oil and hazardous substances. The Waukegan AFRC is not on this notification list.

5.2 State and Local Environmental Records

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

5.2.1 State Lists of Hazardous Waste Sites within 1 Mile

The Waukegan AFRC is not on the State List of Hazardous Waste sites.

The Waukegan Municipal Landfill No. 2 was identified as such a site that is located within 1 mile of the AFRC. This facility is listed under the CAT database as a Notice of Response Action Site. No information was provided regarding impact to soil or groundwater.

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

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

T K Disposal Inc. No. 1 is located within 0.5 mile of the AFRC that may possess a solid waste landfill, incinerator, or transfer station in the II NIPC list. No violations were listed.

5.2.3 State-Registered LUST Sites within 0.5 Mile

In addition to information obtained from the EDR report, the IEPA Division of Underground Storage Tanks maintains a comprehensive database of LUST sites. The AFRC is listed in the State LUST database as IEPA Incident Number 941954. In a letter dated January 18, 1996, a NFA statement was issued.

5.2.4 State-Registered UST Sites within 0.5 Mile

Review of the EDR report and the State of Illinois UST database indicated that nine USTs were identified at the Waukegan AFRC. In 1995, four USTs were removed, with one listed as a LUST (refer to Section 5.2.3). Five USTs are documented as presently installed on the property, but permanently out of use. No additional information has been provided regarding the location or status of these USTs.

Review of the EDR report and the State of Illinois UST database indicated that one UST site was identified within 0.5 mile of the Waukegan AFRC. Table 2 lists the site along with the tank(s) status.

Ten USTs are located at the City of Waukegan Public Works Facility. Based on the EDR report:

- One of the USTs contains diesel fuel
- Two USTs contain gasoline
- Two USTs contain hydraulic oil
- Two USTs contain motor oil
- One UST contains automatic transmission fluid
- One UST contains used oil
- One UST contains new oil

The tanks range in size from 550 gallons to 10,000 gallons. No documented releases have occurred at this site.

Based upon the information available regarding the USTs present at the Public Works Facility, the property is not considered to present an environmental risk to the AFRC.

TABLE 2
 Underground Storage Tank Sites
 Near Waukegan AFRC, Waukegan Illinois

Company/ Site	Address	Distance and Direction from Property	Tank Status	Closure Status	Elevation Relative to Property
Waukegan AFRC	1721 North McAree Rd., Waukegan, IL 60085	Target property	4 Heating Oil Tanks Removed and Closed; 5 Tanks Permanently Out of Use	NFA on the LUST (incident #941954); 4 Heating Oil tanks Removed and Closed	Equal
City of Waukegan Public Works Facility	1700 North McAree Rd., Waukegan, IL 60085	Less than 0.125 mile to the south	10 USTs Currently in use	All active	Lower

5.2.5 State Spills Incidents

The AFRC is not listed on the Illinois State Petroleum Spill List.

5.2.6 Records of Contaminated Public Wells

The City of Waukegan Water and Sewer Board does not own or operate any municipal water supply wells within 0.5 mile of the AFRC.

5.2.7 Voluntary Remediation Program Sites within 0.5 Mile

The AFRC is not listed in Illinois' Brownfields Program. No sites located within 0.5 mile of the AFRC are listed as being in the Brownfields Program either.

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

The AFRC is not registered with the state as a bulk fertilizer and pesticide storage facility. Additionally, no adjacent properties within 0.25 mile were registered as one of these facilities.

5.3 Unmapped Sites

Some sites within the databases EDR searches have the same zip code as the AFRC, but no street address. These sites, known as unmapped or orphan sites, cannot be mapped from the EDR results alone. Additional efforts described herein were made to locate these sites and assess their environmental importance to the AFRC.

Using the mapping utility provided at www.maps.google.com, the locations of the orphan sites were identified and mapped, with the exception of Waukegan Cleanup 2, York House Road, and CM Street, which cannot be located. However, the distance between the Property and York House Road appeared to be greater than 1 mile. None of the identified orphan sites was located within the corresponding ASTM D6008 recommended minimum search distances.

5.4 Summary of Properties Evaluated to Determine Risk to the Property

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

Based on an evaluation of available site information and details concerning the properties listed in Table 3, none of the facilities evaluated exhibit significant environmental conditions that have the probability of adversely affecting the environmental conditions at another site.

TABLE 3
 Properties Evaluated for Potential Environmental Risks
Waukegan AFRC, Waukegan, Illinois

Company/Site	Database	Elevation Relative to Property?	Potential Impact on the Property?	Comments
City of Waukegan Public Works	UST	Lower	No	No violations associated with USTs
Waukegan Airport Watermain Ext.	RCRA-large quantity generator	Higher	No	No RCRA violations
Waukegan Municipal Landfill No. 2	CERCLIS; CAT; SHWS	Higher	No	Notice of Response Action site.
TK Disposal Inc. No. 1	IL NIPC	Lower	No	
Yeoman Creek Landfill	NPL; CERCLIS; ROD; US ENG CONTROLS	Lower	No	On Current NPL

Notes:
 US ENG= U.S. Engineering

6 Site Investigation and Review of Hazards

Findings documented in the following subsections are based on the July 27, 2006, site reconnaissance, a review of available site records, and information obtained from USAR personnel.

6.1 Underground Storage Tanks/Aboveground Storage Tanks

Nine USTs are or previously were present at the Waukegan AFRC. Four of the tanks contained No. 2 fuel oil and five tanks contained diesel fuel. The four fuel oil tanks, ranging from 550 gallons to 6,000 gallons, were removed in 1995. A documented release occurred on the Property as defined by Illinois LUST database (IEPA Incident Number 941954), and approximately 120 cubic yards of soil were removed. The site was granted NFA under Illinois 1996 Corrective Action guidance document, as provided in a letter dated January 18, 1996. According to the IEPA, groundwater quality was not affected by the release of No. 2 fuel oil, which was contained in the approximately 550 gallon tank.

According to a historical review, five diesel-fuel USTs, ranging from 1,000 gallons to 5,000 gallons, are listed as still onsite, but permanently out of use. No additional documentation has been provided regarding the location or current status of the diesel USTs.

6.2 Inventory of Chemicals/Hazardous Substances

Records pertaining to hazardous substances including hazardous materials, chemical bulk storage, petroleum products, hazardous waste, and petroleum waste were reviewed in addition to interviews and the site reconnaissance to develop the inventory for this Property.

Available records indicated that hazardous materials and/or POLs have been stored at this facility in the past. These materials included batteries, acids, adhesives, lubricating oils, paints, coolant, lighter fluid, insect repellent, household cleaners, and other various solvents. During the site reconnaissance, hazardous materials were observed in various locations throughout the facility. Table 4 provides a list of materials presently used by the USMC on the Property. A storage shed was observed in the POV area, southwest of the garage. Hazardous materials observed in the shed included motor oil and solvents.

At the time of the site reconnaissance, the southernmost bays of OMS Building were nearly empty. In the rear of the building, various crates, reportedly empty, occupied a locked, caged area. Three stacked tires; five flammable materials cabinets (each possessing paints, solvents, and oils) (Appendix B, Photograph 7); and six empty 55-gallon drums, two of which were situated sideways over a drip pan, were observed in a separate, unlocked, caged area. No fluid was observed in the drip pan. Near the front of the bay overhead door, small containers of gasoline were observed. Immediately adjacent to the containers, a pool of liquid was observed. Near the north wall of the southernmost bay, an open tub of oil was visible, but no spillage was observed.

In the Wash Rack Building, a 55-gallon plastic drum of Arma-Sol cleaning solution was observed. Additionally, saturated boxes containing 1-gallon bottles of Arma-Sol cleaning solution were also observed; however, there was no evidence that the cleaning solution leaked into the environment.

In the rooms immediately outside of the Arms Vault, located in the USMC Building, various sprays, solvents, and oily rags were observed on a table and shelves. A storage receptacle for the temporary storage of oily rags was also observed.

The garage was observed to be predominately used for storage. However, upon entrance, a strong odor of solvents and paint was apparent. Approximately 20 cans of spray paint, located on a shelf, were observed. Stains on the concrete floor, suggesting oil leakage from vehicles, were also visible.

During a survey of the boiler room, located in a sublevel of the Administration Building, staining around two drains and around piping was observed (Appendix B, Photographs 8 and 9). The stains appeared to have an oily component to them. However, no odors were apparent at the time of the reconnaissance.

Other than the assumed routine household and yard use of pesticides and herbicides, no evidence of pesticide and herbicide use was observed during the site reconnaissance. However, stressed vegetation was observed in the MEP area, possibly due to the military vehicles parked in that area (Appendix B, Photograph 10).

TABLE 4
 Inventory of Chemicals and Hazardous Substances
Waukegan AFRC, Waukegan, Illinois

Item	Quantity
Dexron III Motor Oil	10 gallons
OEHDO 15/40 Oil	5 gallons
OEHDO 10 Oil	5 gallons
Brake Fluid	4.5 gallons
Detergent	1 gallon
Latex paint	20 gallons
Glass Cleaner	2 gallons
Oil-based Paint cans	9 gallons
Coleman Fuel	14 gallons
Paint Stripper	2 gallons
Acetone	1 gallon
Rechargeable Batteries	43
HMMWV Batteries	6 batteries
CLP (spray bottle)	4 bottles
LSA Bottles	39 bottles
Grease	13 cans
Spray Paint Cans	181 cans

TABLE 4
 Inventory of Chemicals and Hazardous Substances
Waukegan AFRC, Waukegan, Illinois

Item	Quantity
Insect Repellent (Clothing)	708 bottles
CLP	3 gallons
Glass Cleaner	3 gallons
All-Purpose Cleaner	2 quarts
Bleach	1 gallon
Scouring Powder	5 gallons
Motor Oil	14 gallons
Used coolant	55 gallons
Arma-Sol cleaning solution	61 gallons
Miscellaneous Medicines	Incidental quantities
Lithium Batteries, BA5590	75 batteries
Alkaline Batteries, AA	160 batteries

6.3 Waste Disposal Sites

Available records and interviews did not indicate the practice of onsite waste disposal other than through managed storage and offsite disposal. No waste disposal sites were observed during the site reconnaissance, nor were any signs of past onsite waste disposal. Stressed vegetation was observed near the MEP area during the site reconnaissance, possibly due to the military vehicles parked in that area (Appendix B, Photograph 10).

6.4 Pits, Sumps, Drywells, and Catch Basins

During the site reconnaissance, two drains, a decommissioned drain, and two decommissioned pipes were observed in the boiler room (Appendix B, Photographs 8, 9, and 11). No fluid flowing into the drains was observed, however. Other drains observed were located in the shower rooms and latrines.

A VWF, with an OWS and grit trap, was formerly installed outside the OMS. A 15-foot-by-29.5-foot concrete slab served as the VWF, which included a VWF grit trap (2 feet by 1.5 feet by 6.5 feet in size), and a 350-gallon OWS. The OWS discharged into the municipal sanitary sewer. The OWS and grit trap were removed in 2001. No impact was recorded during the removal.

A new VWF was installed during the construction of the Wash Rack Building in 2004. The VWF included an interior trench drain and grit trap (Appendix B, Photograph 4). The grit trap was connected to an OWS that was installed on the western exterior of the Wash Rack Building, which discharges to the sanitary sewer (Appendix B, Photograph 5).

6.5 Asbestos-containing Material

According to the 2006 Environmental Survey Report and the 2002 and 2005 asbestos-containing material (ACM) surveys, conducted by ITI, it was confirmed that ACM was present in floor tiles in various locations throughout the AFRC. In particular, non-friable ACM was found in the hallways, Rooms 117A and 117B. Non-Friable ACM also was confirmed in the black mastic under the floor tiles throughout the Administration Building. It is presumed that ACM is present in the roofing materials, fire doors, electrical wiring, and vibration damping cloth within the Administration Building.

No ACMs were confirmed to be present in the OMS Building. However, ITI presumed that ACMs are present in the roofing materials, fire doors, and electrical wiring. No other buildings were sampled during these surveys. No friable ACM was noted in the 2002 and 2005 ACM survey.

During the site reconnaissance, broken and missing floor tile throughout the facility was observed.

6.6 Polychlorinated Biphenyl-containing Equipment

Three transformers mounted to a pole are located on the Property. During the July 2006 site reconnaissance, the transformer exteriors appeared to be in good condition and no evidence of leakage was observed. According to the *Environmental Survey Report – Asbestos, PCB, Lead-Based Paint, and Radon Survey* (ITI of South Florida, Inc. 2006), the transformers are labeled as “3TI-9012-25” and were assumed to contain PCBs.

During the July 2006 site visit, older-style fluorescent light fixtures were observed in the Administration and OMS Buildings. Older fixtures, especially those that are original to the Property, could potentially contain PCBs. The survey stated that many light ballasts inspected during the surveys contained labels stating “No PCB’s.” Those ballasts without specified labeling are presumed to possess PCBs. The ballasts currently present at the Property appear to be in good condition and no leaking dielectric fluid was observed during the site inspection.

6.7 Lead-based Paint

A LBP survey was completed in 2002 as part of the *Environmental Survey Report – Asbestos, PCB, Lead-Based Paint, and Radon Survey* (ITI of South Florida, Inc., 2006). The survey concluded that materials sampled within the Administration and OMS Buildings contained LBP. In the Administration Building, LBP was identified in Rooms 102, 103, 106, 110, 111, 113, 121, 122, 123, 128, 139, 102A, 137B, 138A, 138B, on stairs near the Mechanical Room, the second-floor bathroom, and second-floor hallway. In the OMS Building, LBP was identified on the garage door and upper and lower columns. No other buildings were sampled in the 2002 surveys.

At the time of the site survey, many of the painted surfaces throughout the facilities were in good condition. However, chipped paint was observed in locations throughout the Administration Building and peeling paint was observed in the Boiler Room (Appendix B,

Photographs 11 and 12), on an exterior rail immediately outside of the boiler room and on the Drill Hall overhead door.

6.8 Radon

A site-specific radon survey was conducted at the AFRC in 2002 (ITI of South Florida, Inc., 2006). Passive detection equipment was installed throughout the Administration Building to determine levels of radon gas. The radon survey results indicated that two sampling locations in Room 118H exhibited radon levels above the USEPA residential action level of 4 pCi/L. A 2005 subsequent radon survey indicated that radon levels were 0.6 pCi/L, below the 4 pCi/L action level. The range of reported concentrations suggests that radon levels in the building vary over time and that temporal excursions above the 4pCi/L are possible.

In addition, the USEPA Map of Radon Zones for Lake County, Illinois, indicates that the county lies within Zone 2 in which there is a moderate potential for radon to be present above the USEPA residential action level. This zone has a predicted average indoor screening level from 2 to 4 pCi/L, which is considered below the USEPA residential action level of 4 pCi/L.

6.9 Munitions and Explosives of Concern

Based on a review of available records, the site reconnaissance, and interviews with AFRC personnel, there are no munitions and explosives of concern (MEC) present on the Property. According to the 1998 Environmental Compliance Assessment, there was an indoor firing range that was converted into a kitchen many years ago. The exact location of this indoor range was not discussed, was not observed during the site reconnaissance, and no other records indicate the existence of a firing range. There is an arms vault on the property that reportedly used to store small arms munitions. At the time of the site reconnaissance, no small arms were stored on-site.

6.10 Radioactive Materials

Based on the site reconnaissance and interviews with AFRC personnel, radioactive materials were present in testing and calibration equipment. During the time of the site reconnaissance, a low-level radiation sign was affixed to the wall near the Arms Vault in the USMC Building. However, based on available records review, there is no evidence of any radiological materials or releases at the Property.

7 Review of Special Resources

7.1 Land Use

The Lake County Planning, Building, and Development Department has designated that this Property and surrounding properties are not subject to county zoning. The site is located in a mixed-use area that combines commercial, industrial, and residential land uses.

7.2 Coastal Zone Management

The Illinois Department of Natural Resources, Office of Water Resources is the lead agency for the Illinois Coastal Management Program. The Property is not included in the coastal zone management plan, nor is it in a coastal zone.

7.3 Wetlands

According to 2002 and 2005 U.S. Fish and Wildlife Service National Wetlands maps and the 1993 USGS 7.5 minute Zion quadrangle map, no wetlands appear to be associated with any of the facilities at the Property. However, wetlands appear to be associated with adjacent properties. The nearest wetland is located approximately 650 feet south of the Property. Appendix A, Figure 18 provides a map of wetlands in the immediate vicinity of the Property.

The 2005 Natural Resource Survey indicates that there are no wetlands or surface water bodies on the Property. However, a pond is noted as being approximately 250 feet south of the Property (Parsons, 2005). An unnamed stream was also identified approximately 2,000 feet west of the Property.

7.4 100-year Floodplain

A review of the FEMA digital Flood Hazard Area map indicated that the Property lies outside the 100-year floodplain. Figure 6 in Appendix A provides a map of the 100-year floodplain elevations located in the immediate vicinity of the Property.

7.5 Natural Resources

A 2005 Natural Resource Survey indicates that there were no rare species reported by the Illinois Department of Natural Resources and that there is low potential for rare species habitat due to the lack of habitat on and surrounding the Property (Parsons, 2005). No state listed species were identified within a 2-mile radius of the Property. Federally listed species identified in the County include the piping plover (endangered), karner blue butterfly (endangered), eastern massasauga rattlesnake (federal candidate), dune thistle (threatened), and eastern prairie fringed orchid (threatened).

Additionally, internal AFRC assessment records have concluded that USMC facility activities will not impact any federal or state listed endangered or threatened species.

7.6 Cultural Resources

The Fort McCoy Archaeological Laboratory prepared the Illinois Section 110 cultural resources survey report for the Property for the 88th RRC in November 1998–March 2000. The purpose of the survey and subsequent report was to inventory all properties controlled or leased by the 88th RRC in the State of Illinois. Historical information, setting and landscape, cultural resources, security, architectural information, and structure descriptions are included for each property. Each site was also assessed for its eligibility to the NRHP. No facilities at the Waukegan AFRC were eligible for listing on the NRHP. This report confirmed the absence of recorded archaeological sites on the Property, and that the land has been extensively disturbed by building construction. An onsite assessment determined that there is a low probability of extant archaeological remains on the facility property.

Appendix D provides a copy of the Section 110 survey report.

7.7 Other Special Resources

Only one designated wild and scenic river (WSR) occurs within the State of Illinois. The Middle Fork Vermilion is located greater than 100 miles south of the Property. Based on the location of the WSR and historical activities conducted at the AFRC, no activities conducted at the site would adversely impact any of the designated WSR.

8 Conclusions

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

8.1 Review of Findings

Hazardous Substances. Available records indicate that hazardous substances have been stored at this facility in the past. These materials included batteries, acids, adhesives, lubricating oils, paints, coolant, lighter fluid, insect repellent, household cleaners, and other various solvents. During the site reconnaissance, hazardous substances were observed in various locations throughout the facility. A storage shed was observed in the POV area, southwest of the garage. Hazardous substances observed in the shed included solvents. There is no evidence that hazardous substances above reportable quantities were released or disposed on the Property and no storage above reportable quantities was observed during the site reconnaissance.

USTs/ASTs. Available records did not indicate that any ASTs currently or formerly are located at this facility. Nine USTs were historically located at this facility. Five of these UST tanks held diesel fuel and are presently onsite, but are permanently out of use. Four of the tanks contained No. 2 fuel oil, but were removed in 1995. Upon removal, one UST was identified to have been leaking. A NFA report was submitted to the IEPA, which approved the NFA required to be protective of human health and the environment in a letter dated January 18, 1996.

No additional information has been provided regarding the location and status of the five remaining tanks.

Non-UST/AST Petroleum Storage. Non UST/AST petroleum storage does occur and has occurred on the Property, including gallon cans and 55- gallon drums of POL. At the time of the site reconnaissance, these POLs were stored in hazardous material sheds and/or spill containment / drip pans.

PCBs. Three transformers mounted to a pole are located on the Property. These transformers are assumed to contain PCBs, and the exteriors appeared to be in good condition at the time of the site reconnaissance with no evidence of releases (for example, no stains on the pole or adjacent soil).

A survey of potential PCB-containing light ballasts (ITI of South Florida, Inc., 2006) indicated that some of the older-style light fixtures may contain PCBs.

ACM. According to the 2006 Environmental Survey Report and the 2002 and 2005 ACM surveys, conducted by ITI, it was confirmed that ACM was present in floor tiles in various

locations throughout the AFRC. In particular, ACM was identified in the hallways, Rooms 117A and 117B, and in other patches throughout the facility. ACM was also confirmed in the black mastic under the floor tiles throughout the Administration Building. It is presumed that ACM is present in the roofing materials, fire doors, electrical wiring, and vibration damping cloth within the Administration Building.

No ACM was identified in the OMS Building. However, it is presumed that ACM is present in the roofing materials, fire doors, and electrical wiring. No other buildings were sampled during these surveys. No friable ACM was noted in the 2002 and 2005 ACM survey.

LBP. A LBP survey was completed in 2002. The survey concluded that materials sampled within the Administration and OMS Buildings contained LBP. In the Administration Building, LBP was identified in Rooms 102, 103, 106, 110, 111, 113, 121, 122, 123, 128, 139, 102A, 137B, 138A, 138B, on stairs near the Mechanical Room, the second-floor bathroom, and second-floor hallway. In the OMS Building, LBP was identified on the garage door and upper and lower columns. No other buildings were sampled in the 2002 surveys.

At the time of the site reconnaissance, many of the painted surfaces throughout the facilities were in good condition. However, chipped paint was observed in locations throughout the Administration Building and peeling paint was observed in the Boiler Room, on an exterior rail immediately outside of the boiler room, and on the Drill Hall overhead door.

Radiological Materials. Based on available records review, there is no evidence of any radiological materials releases at the Property. However, during the time of the site reconnaissance, a low-level radiation sign was affixed to the wall near the Arms Vault in the Naval (USMC) Addition.

Radon. A 2002 radon survey indicates that two sampling locations in Room 118H exhibited radon levels above the USEPA residential action level of 4 pCi/L. The results of a subsequent radon survey conducted in 2005 indicate that radon levels were below 4 pCi/L, whereby Room 118H possessed a reading of 0.6 pCi/L.

MEC. Based on a review of available records, the site reconnaissance, and interviews with AFRC personnel, no MEC is or was present on the Property.

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

Wetlands and Floodplain. There are no wetlands on the Property. However, wetlands appear to be associated with adjacent properties. The nearest wetland is located approximately 650 feet south of the Property. In addition, a pond is noted as being approximately 250 feet south of the Property. An unnamed stream was also identified approximately 2,000 feet west of the Property.

A review of the FEMA digital Flood Hazard Area map indicated that the Property lies outside the 100-year floodplain. Figure 6 in Appendix A provides a map of the 100-year floodplain elevations located in the immediate vicinity of the Property.

Threatened and Endangered Species. No threatened or endangered species or habitats have been identified on the Property.

Archaeological and Historical Resources. No facilities at the Waukegan AFRC were eligible for listing on the NRHP, and there are no recorded archaeological sites on the Property.

8.2 Environmental Condition of Property

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

In accordance with DoD policy defining the classifications (see Sherri Goodman Memorandum dated 21 October 1996), the Property has been classified into one of seven property types. Based on the results of this ECP study, the property has been assigned an overall DoD Environmental Condition Type 2.

The property type is based on the following major findings:

- Tank 2 – 550-gallon LUST – soil-containing petroleum was identified during removal of this gasoline LUST in 1995. Approximately 120 cubic yards of affected soil was removed. No further investigation of the site was required by the IEPA (Environmental Contractors of Illinois, Inc., 1995).

9 References

Persons Contacted

- Mr. Eric Johnson, 88th Regional Readiness Command, ARIM Environmental Division, JMWA Contractor, State Environmental Manager, (708-209-2600 ext 273), July 27, 2006.
- Ms. Lisa Gulbranson, 88th Regional Readiness Command, Environmental Planner, JMWA Contractor, (612- 713-3752), July 25, 2006.

Resources Consulted

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- Environmental Data Resources, Inc. 2006. EDR Radius Map, Waukegan AFRC USARC, 1721 North McAree Road, Waukegan, Illinois.
- Federal Emergency Management Agency (FEMA) Flood Hazard Insurance Map, <http://msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView>
- Federal Regulatory Databases
 - National Priorities List (NPL), May 5, 2006
 - Proposed NPL Sites, May 5, 2006
 - Delisted NPL, May 5, 2006
 - NPL Recovery, May 5, 2006
 - Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS), June 22, 2006
 - CERCLIS No Further Remedial Action Planned (NFRAP), June 23, 2006
 - CORRACTS, May 21, 2006
 - Resource Conservation and Recovery Act (RCRA), June 28, 2006
 - Emergency Response Notification System (ERNS), April 26, 2006
 - Hazardous Materials Information Reporting System (HMIRS), April 14, 2006
 - US Engineering Controls, July 3, 2006
 - US Institutional Controls, July 3, 2006
 - Department of Defense (DOD) Sites, May 12, 2006
 - Formerly Used Defense Sites (FUDS), July 3, 2006
 - CONSENT Superfund (CERCLA) Consent Decrees, march 13, 2006
 - Records of Decision (ROD), July 6, 2006
 - Uranium Mill Tailings Sites (UMTRA), June 21, 2006
 - Open Dump Inventory (ODI), June 9, 2006
 - Toxic Chemical Release Inventory System (TRIS), June 22, 2006
 - Toxic Substances Control Act (TSCA), April 12, 2006
 - FTTS Federal Insecticide, Fungicide, and Rodenticide (FIFRA)/TSCA Tracking System, June 19, 2006

- Section 7 Tracking System (SSTS), March 3, 2006
- Integrated Compliance Information System (ICIS), April 11, 2006
- PCB activity Database System (PADS), June 28, 2006
- Material Licensing Tracking System (MLTS), July 3, 2006
- Mines Master Index File (MINES), June 28, 2006
- FINDS Facility Index System/Facility Registry System, April 3, 2006
- RCRA Administrative Action Tracking System (RAATS), June 5, 2006
- Biennial Reporting System (BRS), June 30, 2006
- National Wild and Scenic River System,
<http://www.nps.gov/rivers/wildriverslist.html#il>
- Polk's City Directory information provided by Environmental Data Resources, Inc., dated 1954, 1963, 1968, 1973, 1978, 1983, 1989, 1996, and 2001.
- State and Local Regulatory Databases
 - Illinois State Hazardous Waste Sites Database (SHWS), May 23, 2006
 - CAT Category List, February 26, 2001
 - Solid Waste Facilities/Landfill Sites (SWF/LF), May 23, 2006
 - Illinois Northeastern Illinois Planning Commission Solid Waste List (IL NIPC), May, 23, 2006
 - Leaking Underground Storage Tank (LUST) Database, May 23, 2006
 - Underground Storage Tank Facility List (UST), May 23, 2006
 - Engineering Controls, May 16, 2006
 - Institutional Controls, May 16, 2006
 - Site Remediation Program (SRP) Database
 - Illinois Licensed Drycleaners Database, June 23, 2006
 - IMPDMENT Surface Impoundment Inventory, February 20, 2006
 - Illinois Brownfields Inventory, July 10, 2006
 - AIRS, May 3, 2006
 - Indian Reservations Tribal Records Database, May 12, 2006
- US Environmental Protection Agency Map of Radon Zones,
<http://www.epa.gov/radon/zonemap/illinois.htm>
- US Fish and Wildlife Service National Wetlands Inventory,
<http://wetlandfws.er.usgs.gov/NWI/index.html>
- US Geological Survey 15-Minute Topographical Maps provided by Environmental Data Resources, Inc., dated 1908.
- US Geological Survey 7.5-Minute Topographical Maps provided by Environmental Data Resources, Inc., dated 1960, 1960-1972, 1960-1980, and 1993.

Agencies Contacted

- City of Waukegan Fire Department, Waukegan, Illinois
- Illinois Environmental Protection Agency, Springfield, Illinois

- Lake County Health Department and Community Health Center, Waukegan, Illinois
- Office of Illinois State Fire Marshall, Springfield, Illinois

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Jones Technologies, Inc. 2004. OWS System Closure Report, Waukegan AFRC, Waukegan, Illinois, 88th Regional Readiness Command - Illinois.

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Appendix A
Figures

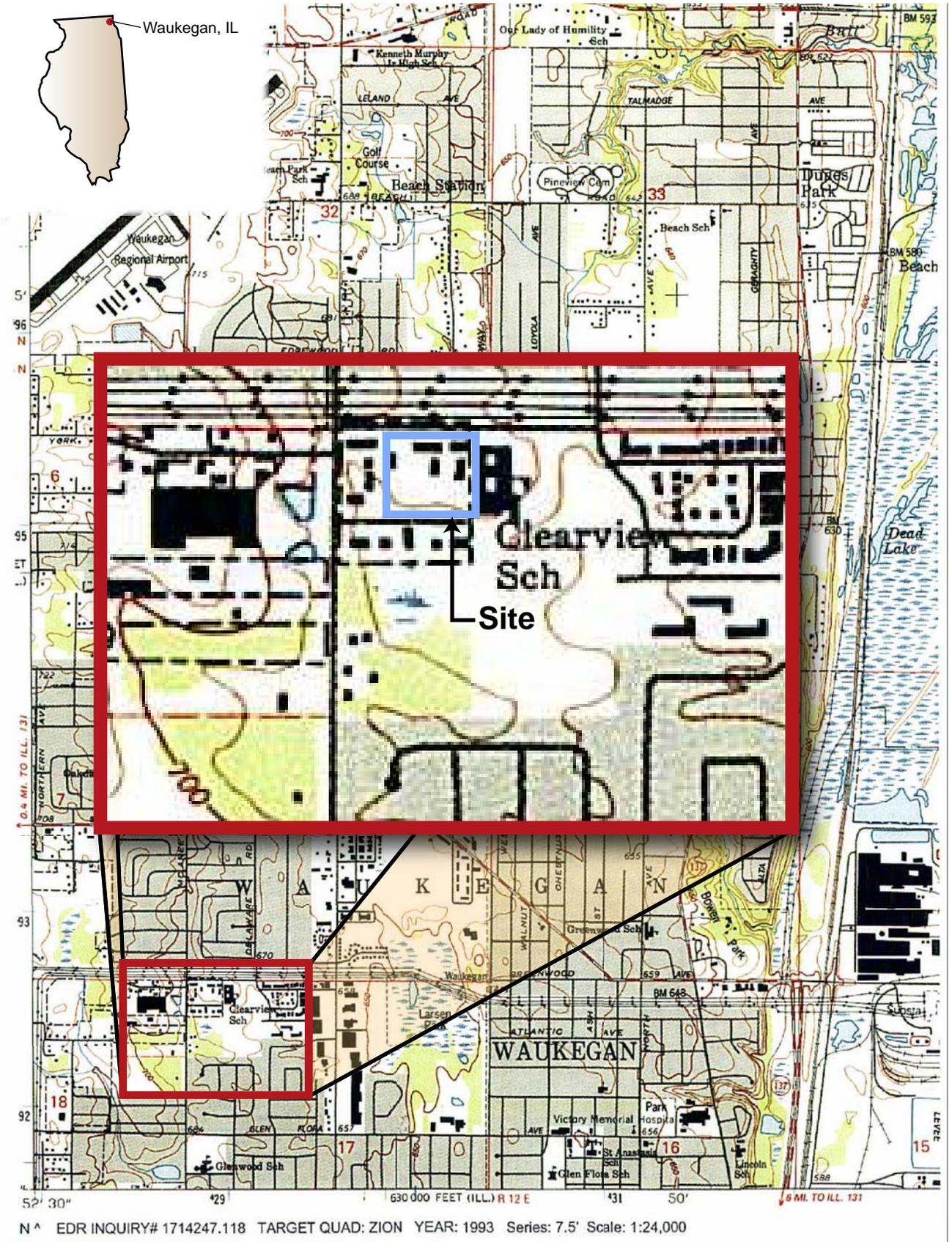


FIGURE 1
 General Site Location Map
 Phase I ECP Report
 Waukegan AFRC USAR Center,
 Waukegan, Illinois

SOURCE: 1993 USGS 7.5 minute topographic map

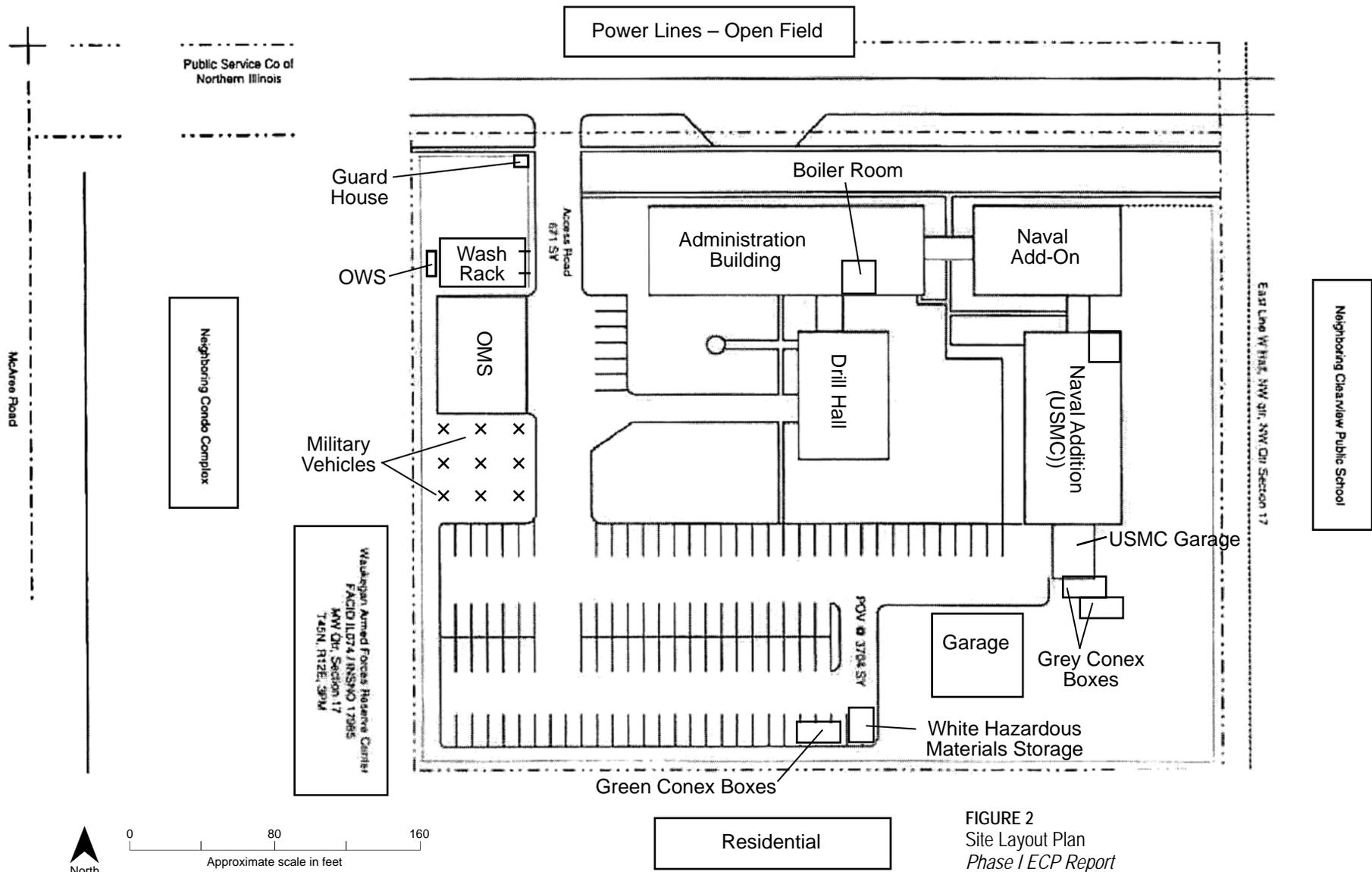


FIGURE 2
 Site Layout Plan
 Phase I ECP Report
 Waukegan AFRC USAR Center,
 Waukegan, Illinois

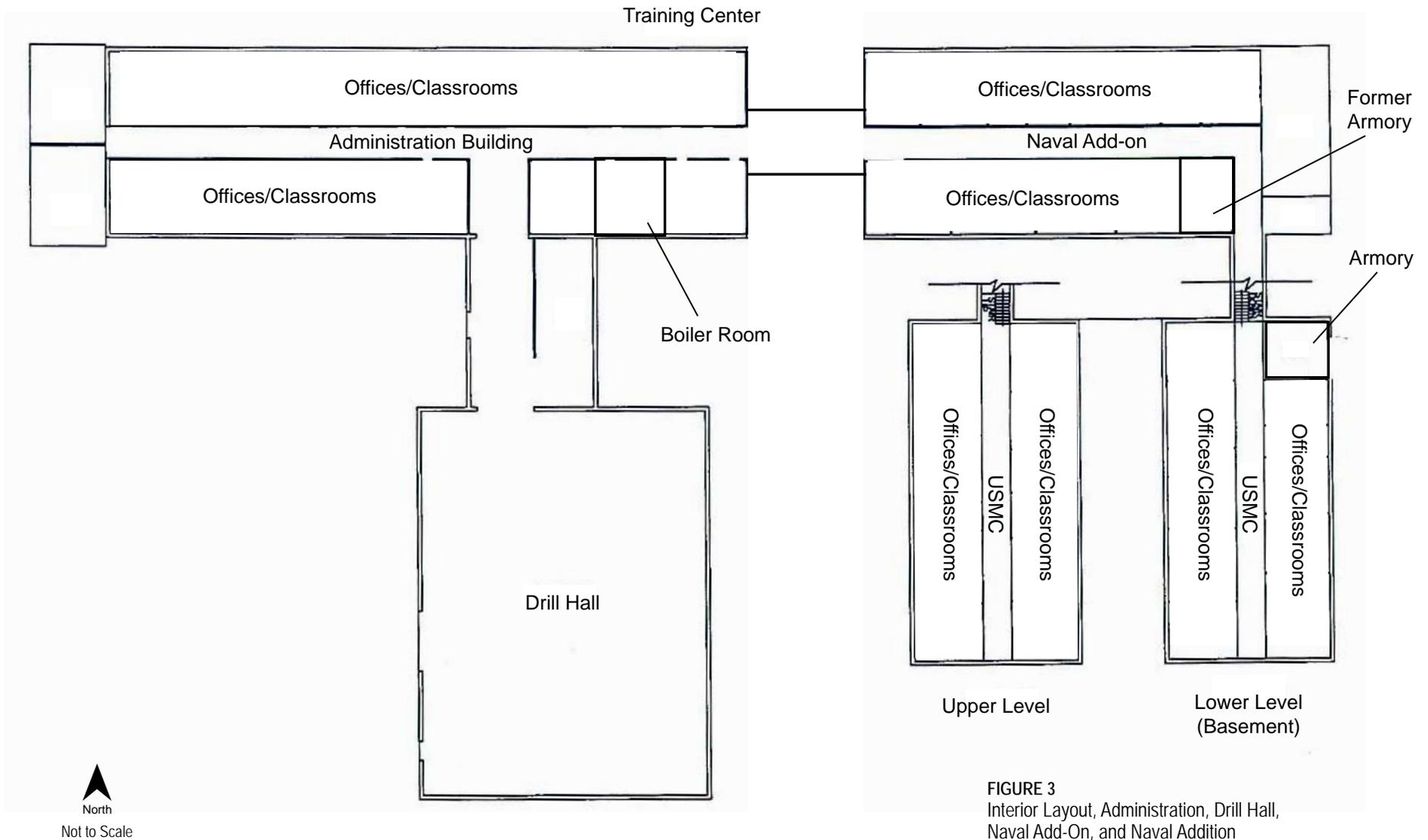
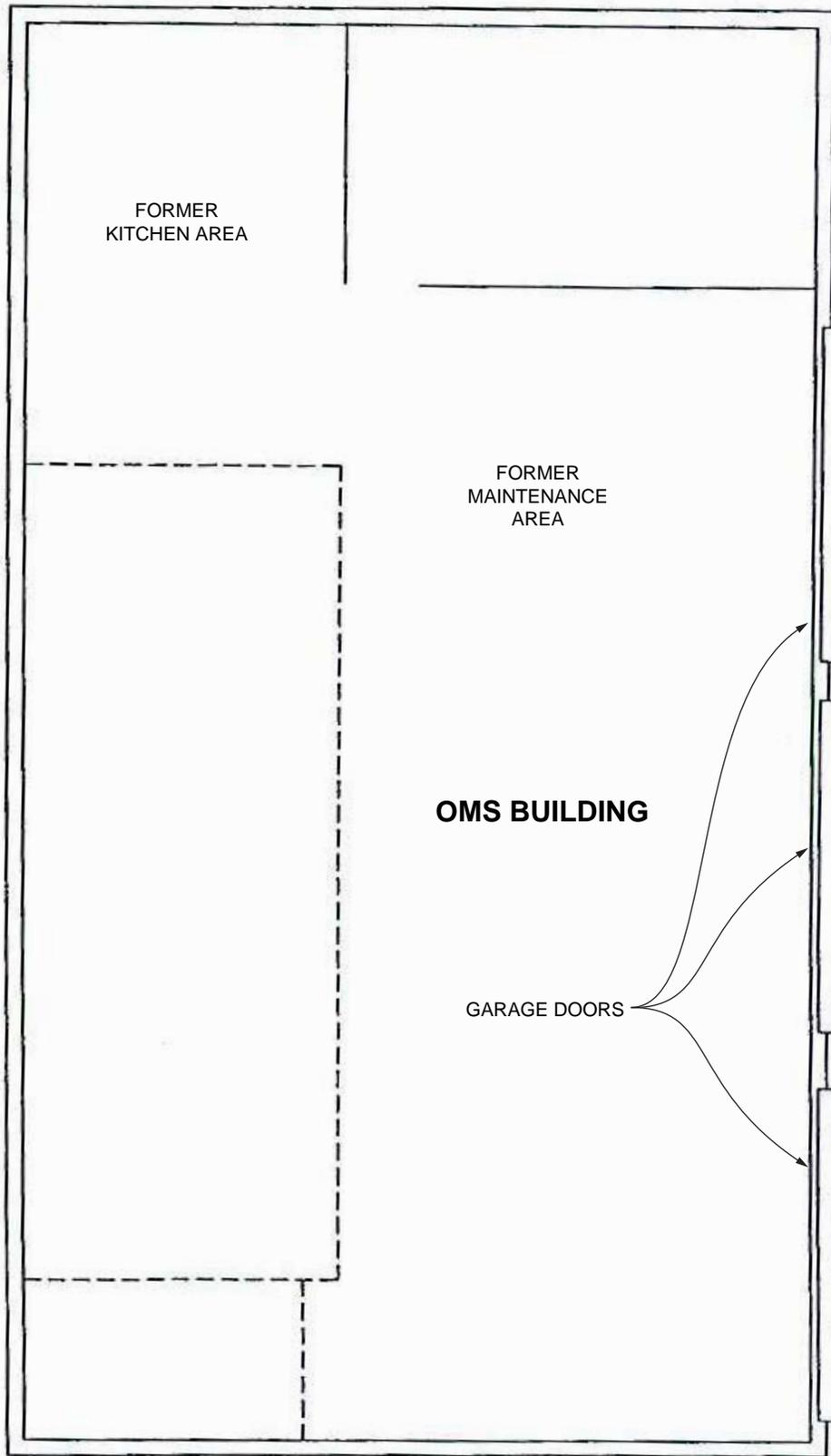


FIGURE 3
 Interior Layout, Administration, Drill Hall,
 Naval Add-On, and Naval Addition
Phase I ECP Report
Waukegan AFRC USAR Center,
Waukegan, Illinois

SOURCE: Environmental Survey Report, Asbestos, PCB, Lead Based Paint & Radon Survey,
 ITI of South Florida, Inc. (1998)



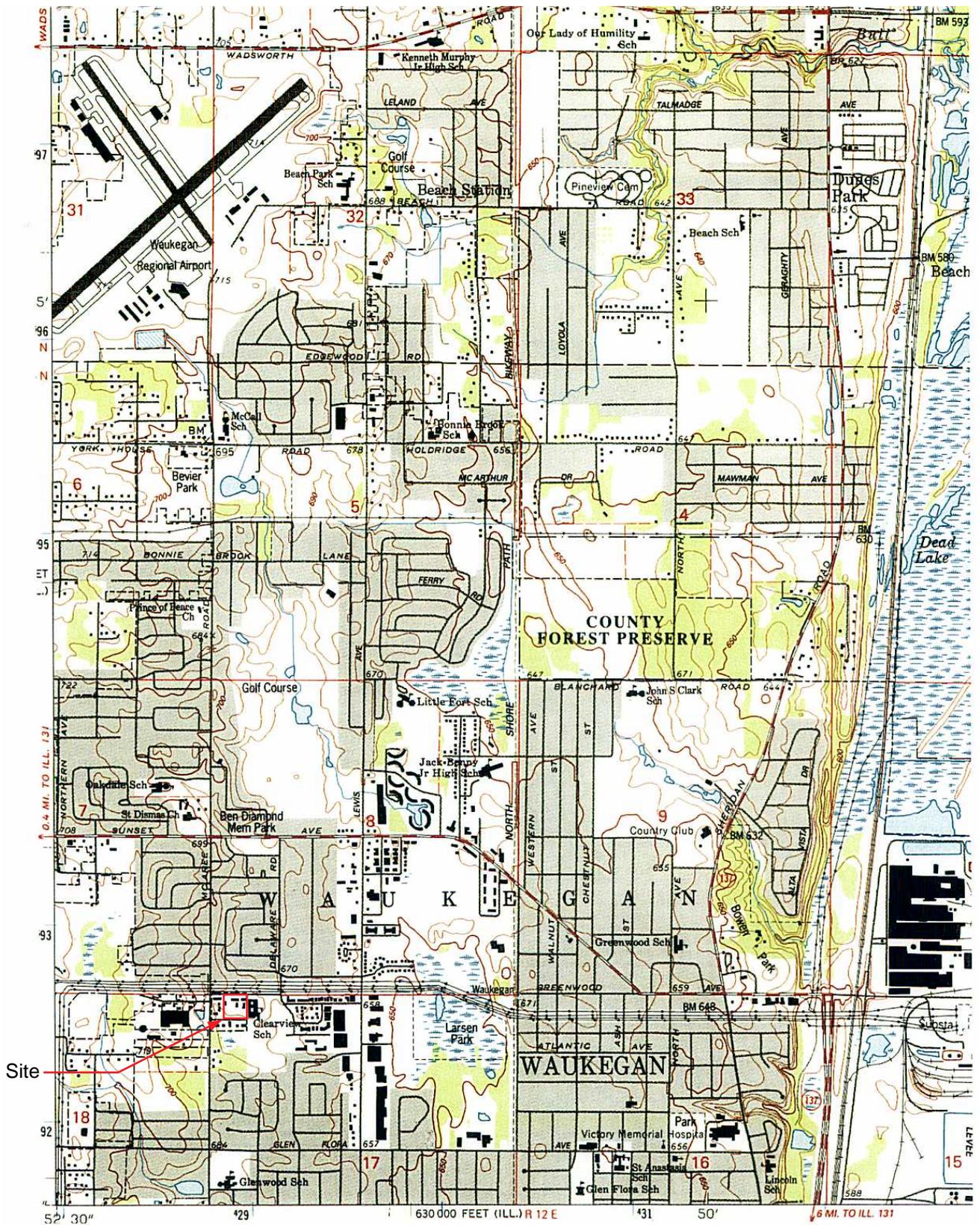
North
Not to Scale

OMS BUILDING

GARAGE DOORS

FIGURE 4
Interior Layout, OMS Building
Phase I ECP Report
Waukegan AFRC USAR Center,
Waukegan, Illinois

SOURCE: Environmental Survey Report, Asbestos, PCB, Lead Based Paint & Radon Survey, ITI of South Florida, Inc. (1998)



N ^ EDR INQUIRY# 1714247.118 TARGET QUAD: ZION YEAR: 1993 Series: 7.5' Scale: 1:24,000

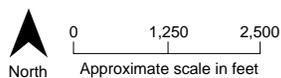
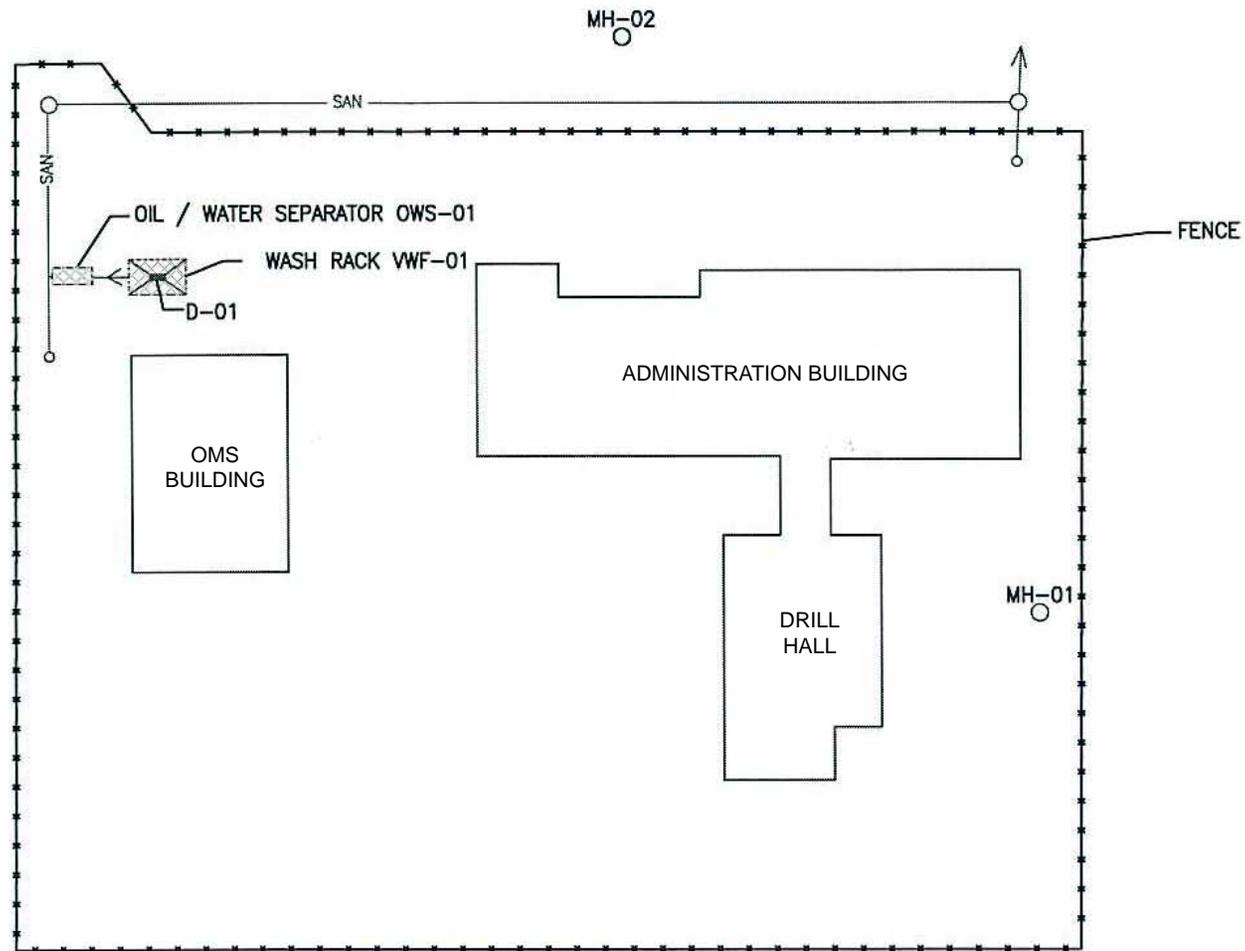


FIGURE 5
 1993 USGS 7.5-Minute Topographic Map,
 Zion, Illinois
*Phase I ECP Report
 Waukegan AFRC USAR Center,
 Waukegan, Illinois*



NOTE:
HIGHLIGHTED STRUCTURES HAVE
BEEN REMOVED OR CLOSED

LEGEND	
SAN	SANITARY LINE
○	CLEANOUT
VWF-01	VEHICLE WASH FACILITY
D-01	DRAIN
OWS-01	OIL / WATER SEPARATOR
MH-01	MANHOLE

North
Not to Scale

SOURCE: OWS System Closure Report, Jones Technologies, Inc.(2001)

FIGURE 7
Former Location of Oil-Water
Separator (OWS) and Wash Rack (VWF)
Phase I ECP Report
Waukegan AFRC USAR Center,
Waukegan, Illinois



FIGURE 8
1953 Aerial Photograph
Phase I ECP Report
Waukegan AFRC USAR Center,
Waukegan, Illinois

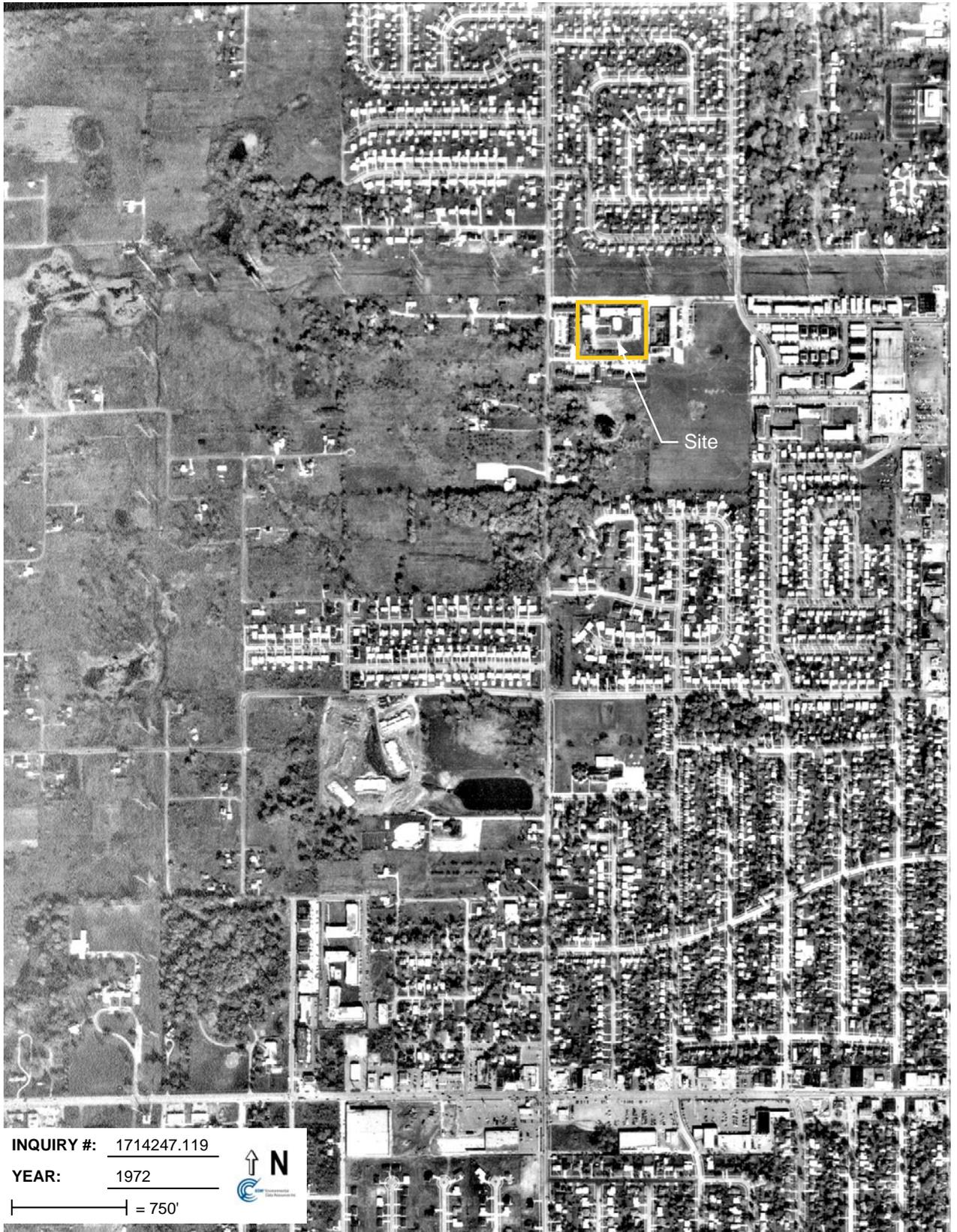


FIGURE 9
1972 Aerial Photograph
Phase I ECP Report
Waukegan AFRC USAR Center,
Waukegan, Illinois

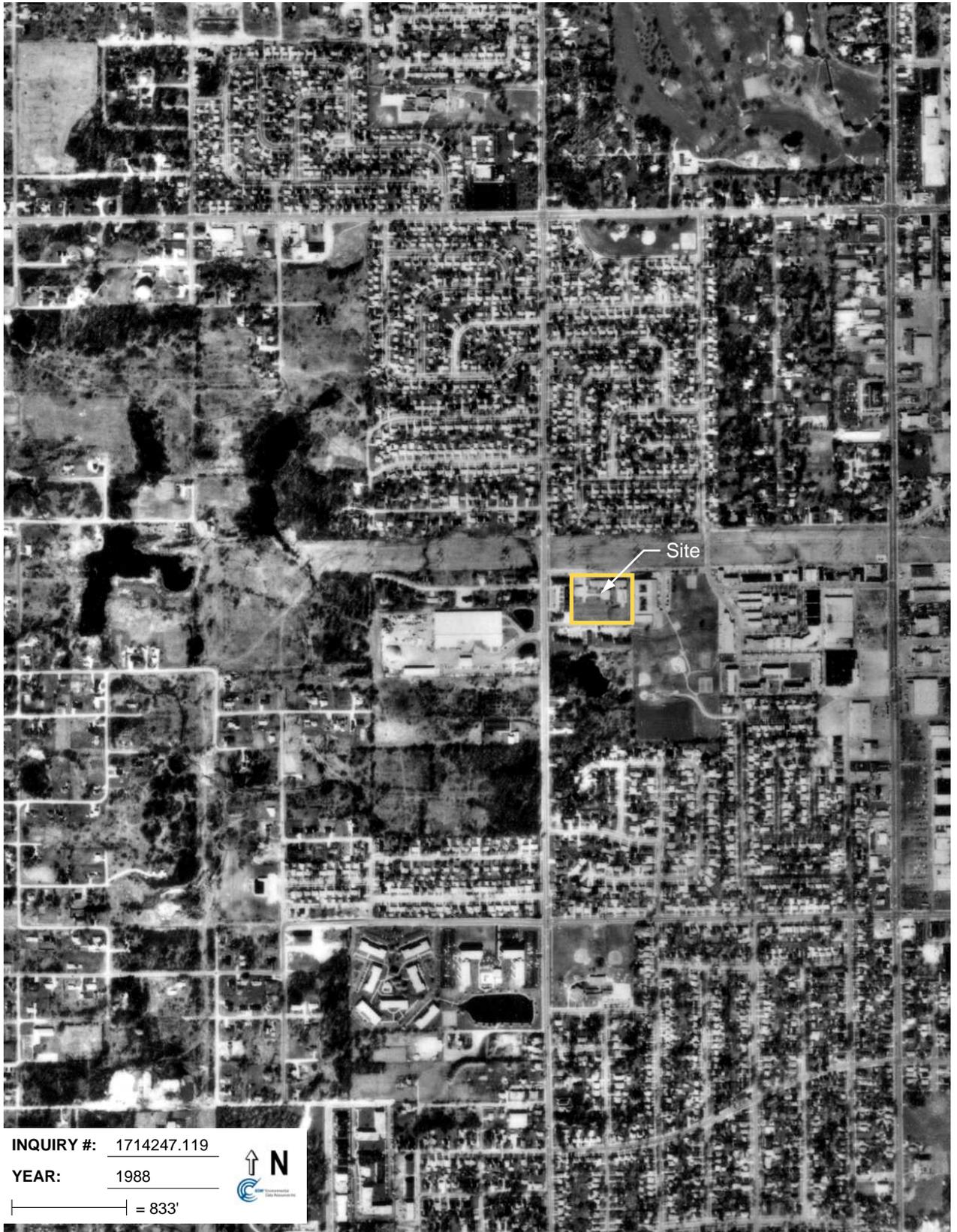
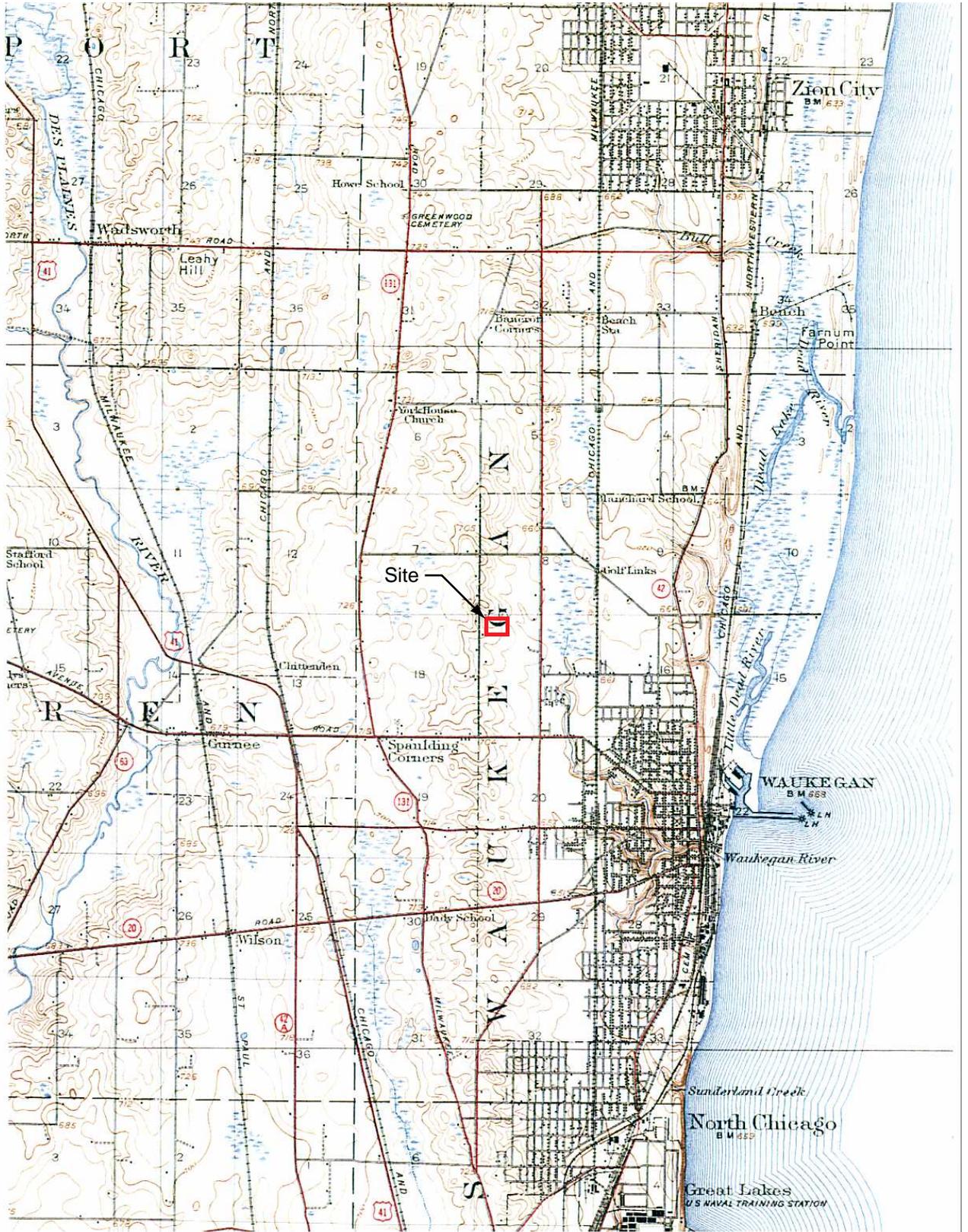


FIGURE 10
1988 Aerial Photograph
Phase I ECP Report
Waukegan AFRC USAR Center,
Waukegan, Illinois

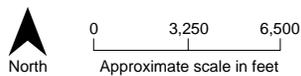


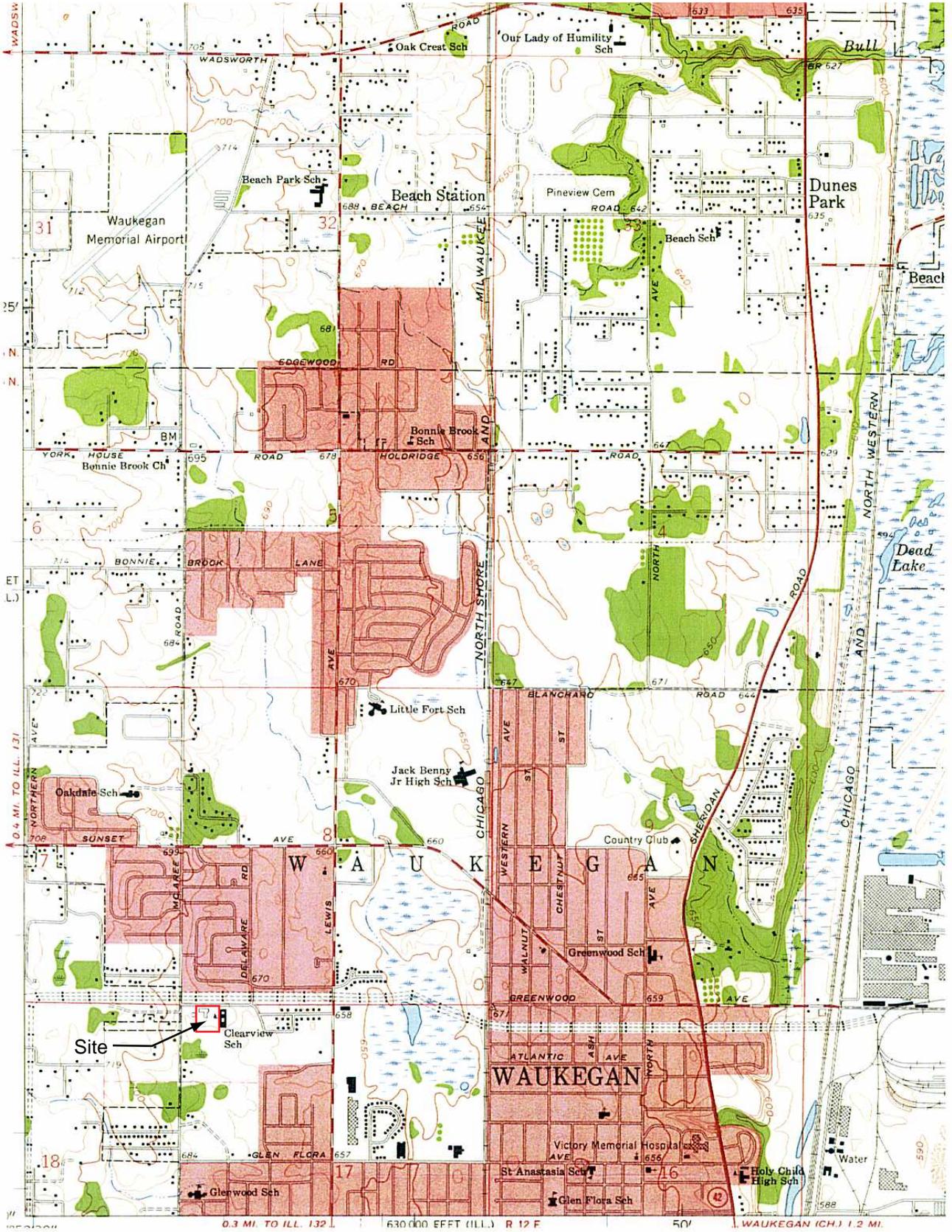
FIGURE 11
1994 Aerial Photograph
Phase I ECP Report
Waukegan AFRC USAR Center,
Waukegan, Illinois



N ^ EDR INQUIRY# 1714247.118 TARGET QUAD: WAUKEGAN YEAR: 1908 Series: 15' Scale: 1:62,500

FIGURE 12
 1908 USGS 15-Minute Topographic Map,
 Waukegan, Illinois
Phase I ECP Report
Waukegan AFRC USAR Center,
Waukegan, Illinois





N ^ EDR INQUIRY# 1714247.118 TARGET QUAD: ZION YEAR: 1960 Series: 7.5' Scale: 1:24,000

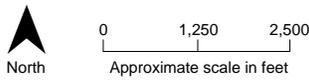
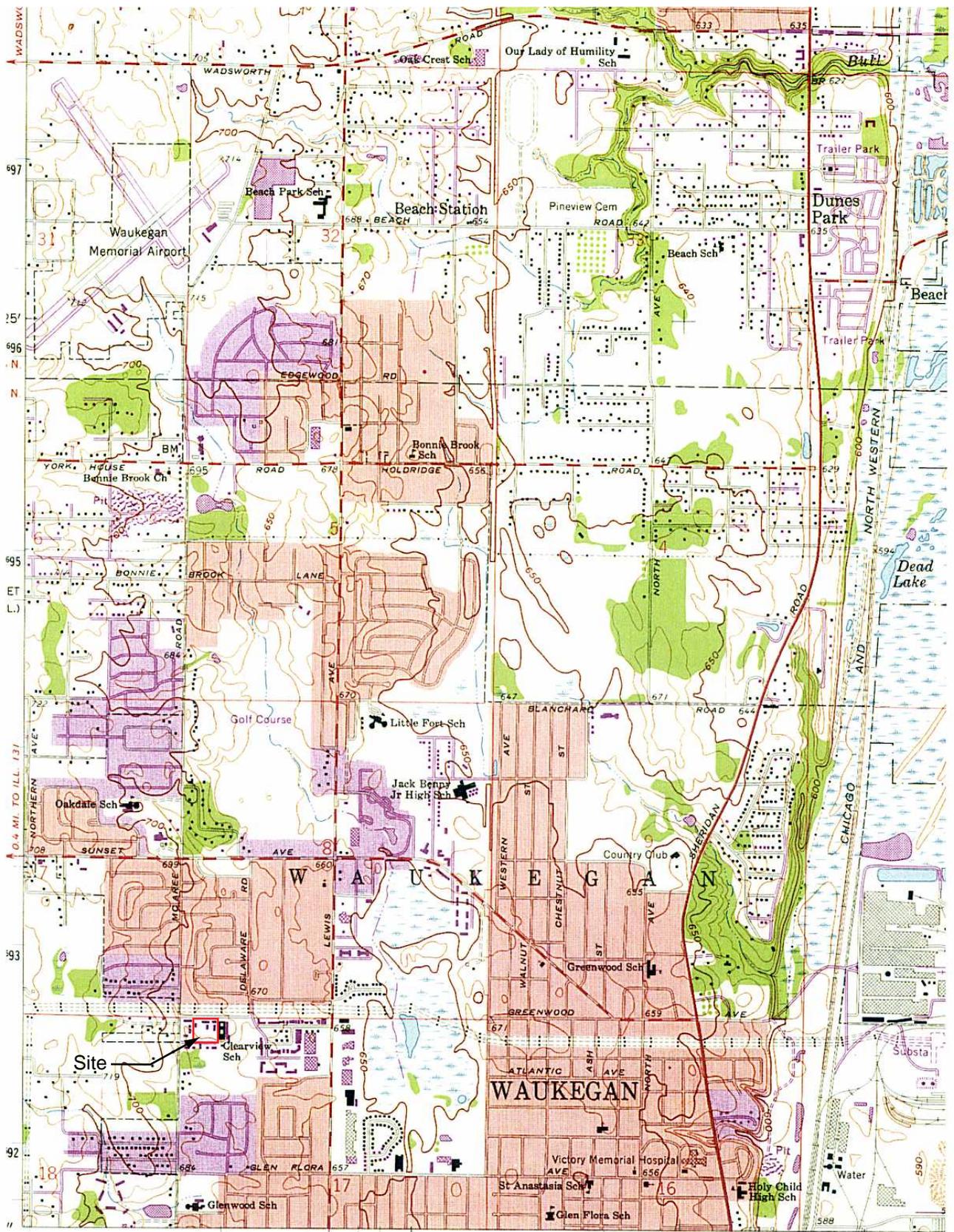
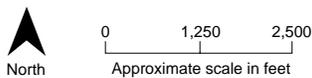


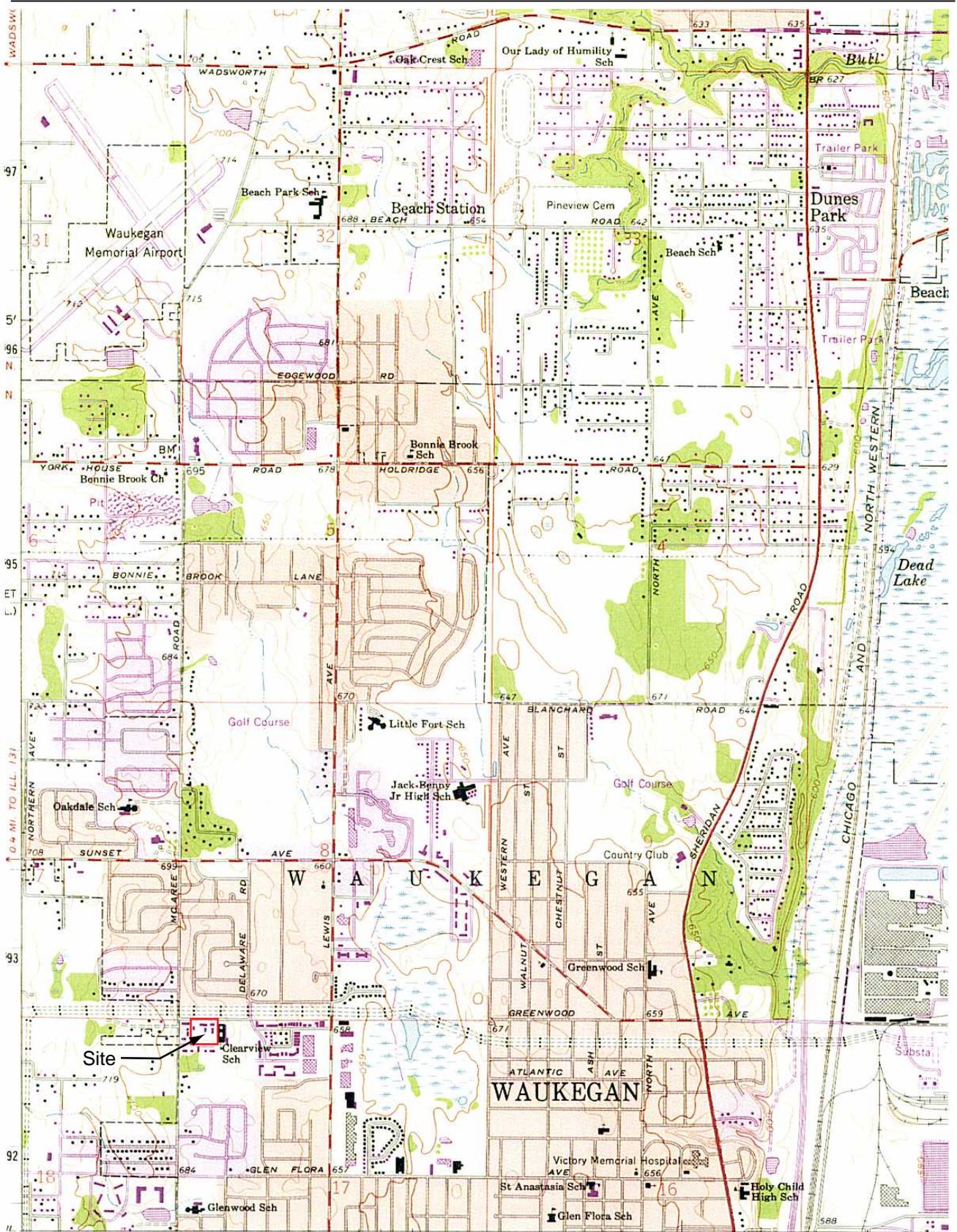
FIGURE 13
1960 USGS 7.5-Minute Topographic Map,
Zion, Illinois
Phase I ECP Report
Waukegan AFRC USAR Center,
Waukegan, Illinois



N ^ EDR INQUIRY# 1714247.118 TARGET QUAD: ZION PhotoRevised: 1960-1972 Series: 7.5' Scale: 1:24,000

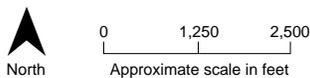
FIGURE 14
 1960-1972 USGS 7.5-Minute Topographic Map,
 Zion, Illinois
Phase I ECP Report
Waukegan AFRC USAR Center,
Waukegan, Illinois

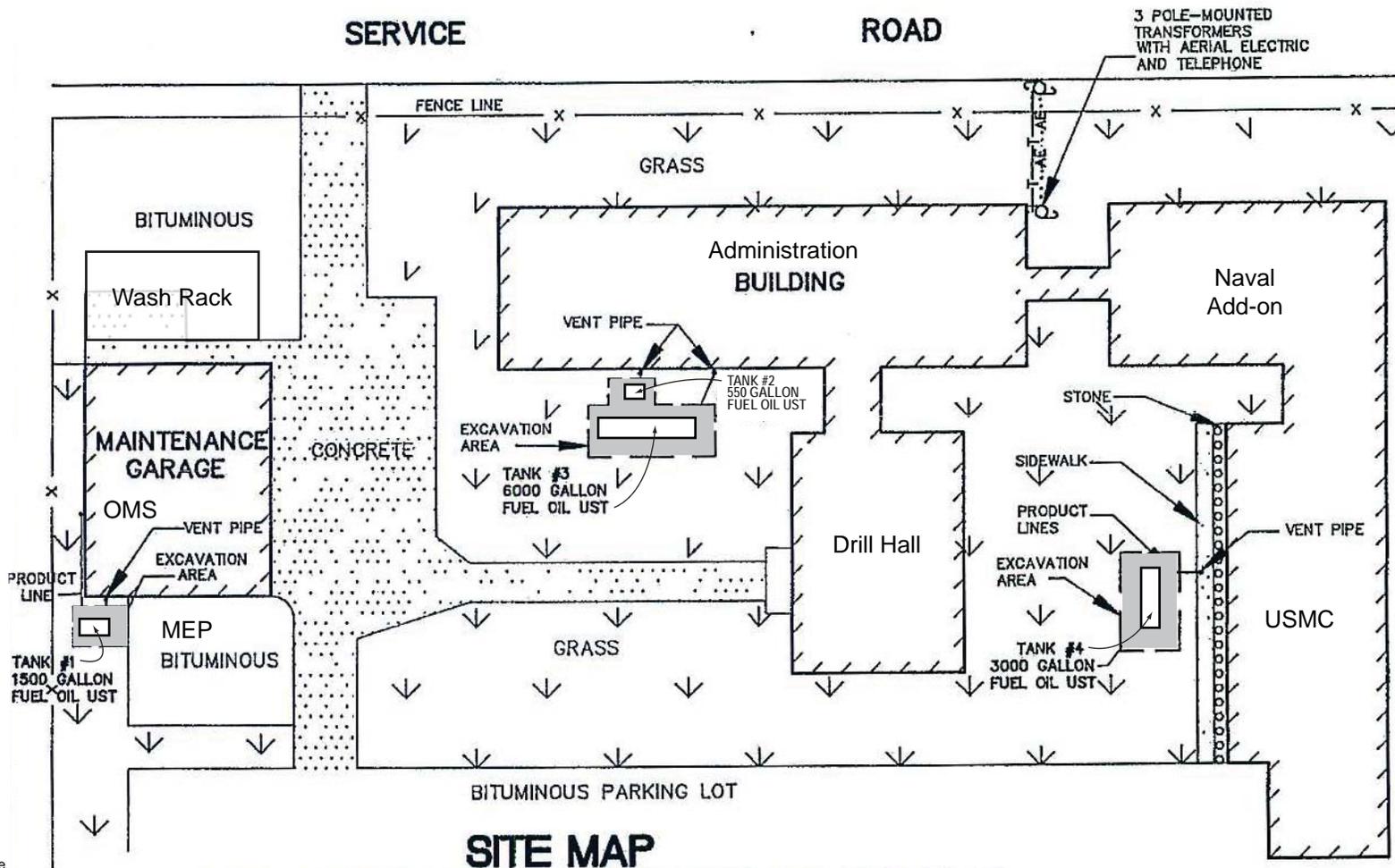




N ^ EDR INQUIRY# 1714247.118 TARGET QUAD: ZION PhotoRevised: 1960-1980 Series: 7.5' Scale: 1:24,000

FIGURE 15
 1960-1980 USGS 7.5-Minute Topographic Map,
 Zion, Illinois
Phase I ECP Report
Waukegan AFRC USAR Center,
Waukegan, Illinois



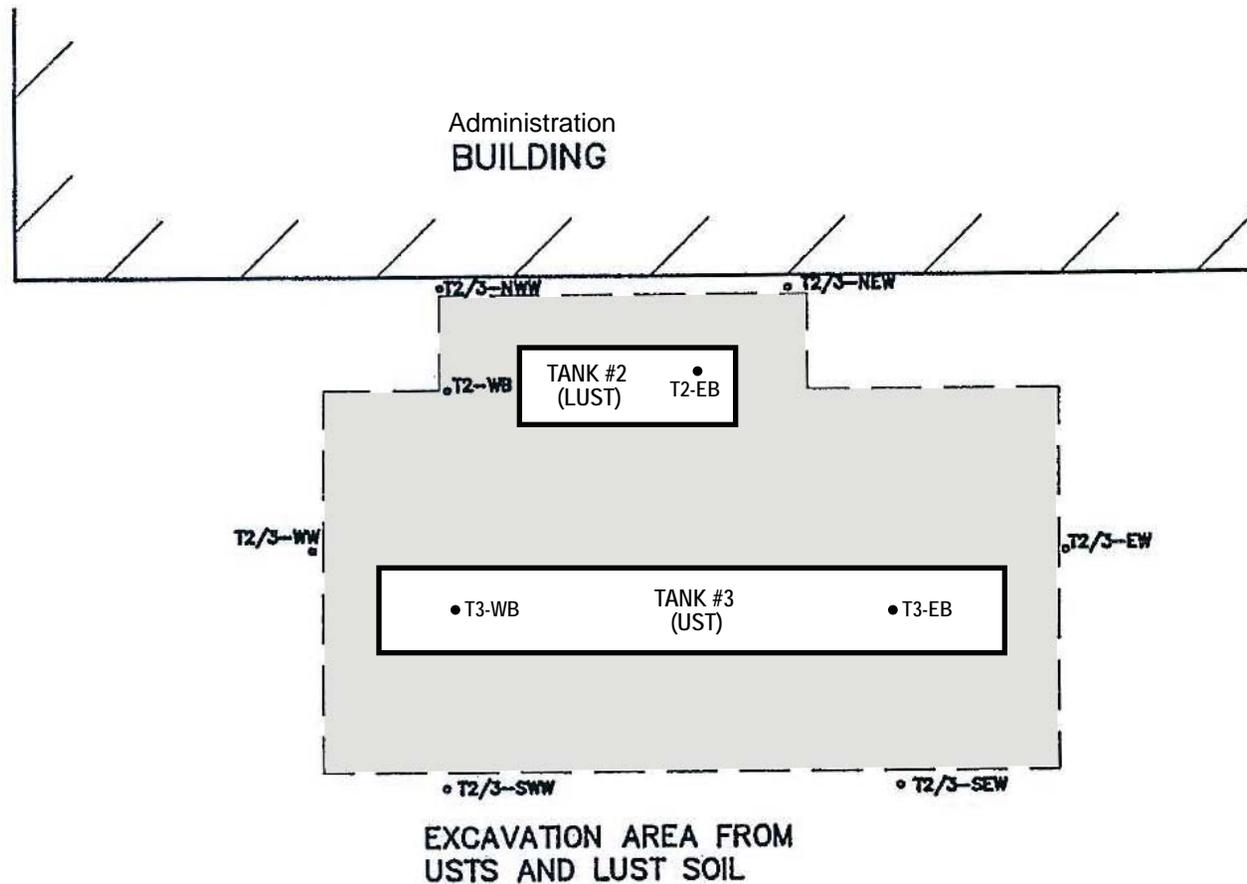


SITE MAP
U.S. ARMED FORCES RESERVE CENTER
1721 N. McAREE ROAD
WAUKEGAN, IL. 60085-1499

LEGEND
 Location of Removed Soil

FIGURE 16
 Former Location of Removed
 Underground Storage Tank Soil
Phase I ECP Report
Waukegan AFRC USAR Center,
Waukegan, Illinois

SOURCE: 45 Day Report, Environmental Contractors of Illinois (1993)



 Location of removed soil

NOTE: Tank 2 leaked #2 fuel oil.
Approximate locations of Tank 2 and Tank 3

SOURCE: 45 Day Report, Environmental Contractors of Illinois (1993)

**SOIL SAMPLE LOCATION MAP
U.S. ARMED FORCES RESERVE CENTER
1721 N. McAREE ROAD
WAUKEGAN, IL. 60085-1499
LUST INCIDENT #941954**

FIGURE 17
Location of Excavated Leaking
Underground Storage Tank Soil
*Phase I ECP Report
Waukegan AFRC USAR Center,
Waukegan, Illinois*

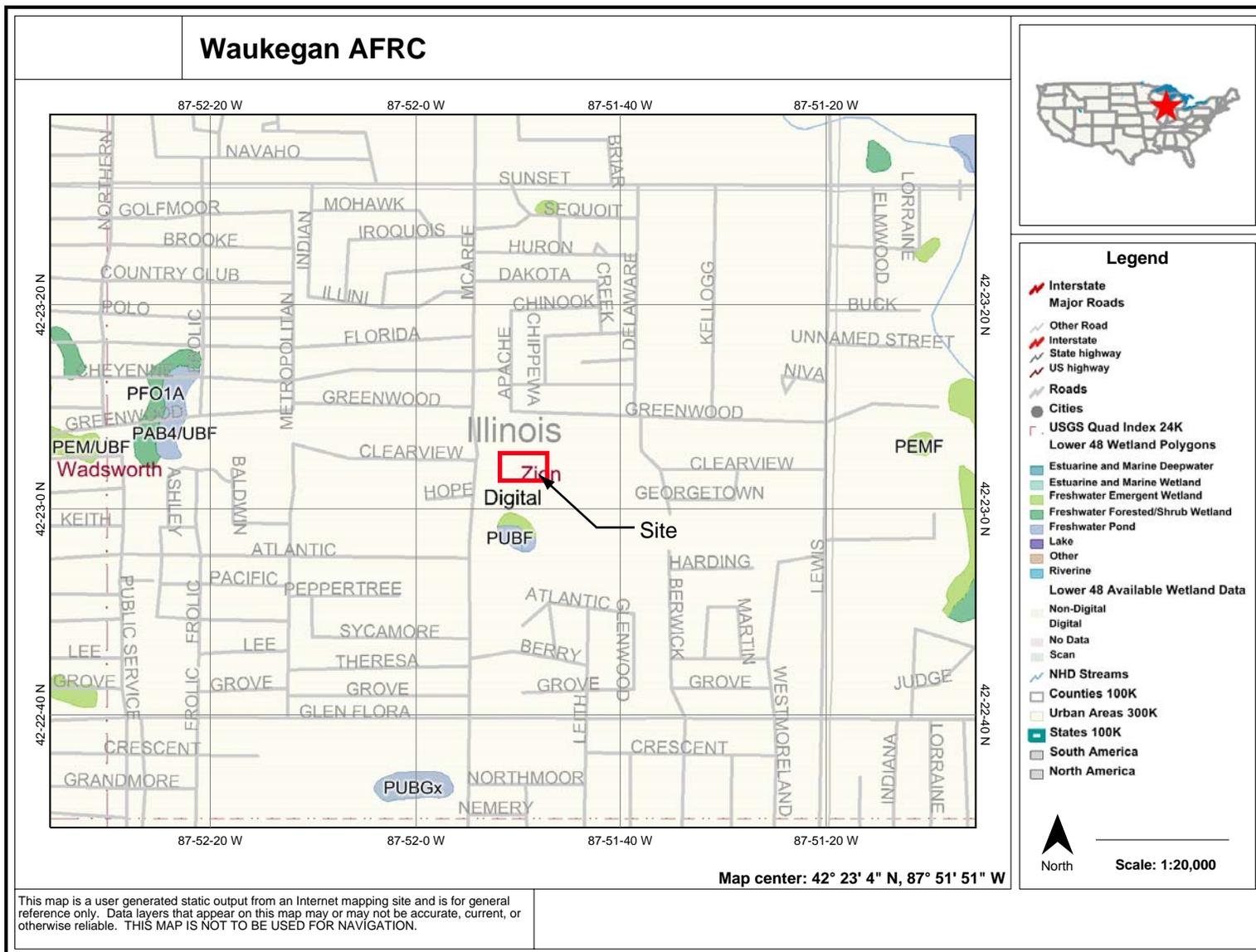


FIGURE 18
 National Wetlands Inventory Map
 Phase I ECP Report
 Waukegan AFRC USAR Center, Waukegan, Illinois

Appendix B
Site Reconnaissance
Photographs

APPENDIX B

Site Reconnaissance Photographs



1. Administration Building (center), and Drill Hall (right). General view is to the northeast.



2. Blue Garage. General view is to the northeast.



3. OMS building. General view is to the northwest.



4. Wash Rack building interior. Note grit trap (center) and solvents (left). General view is to the west.



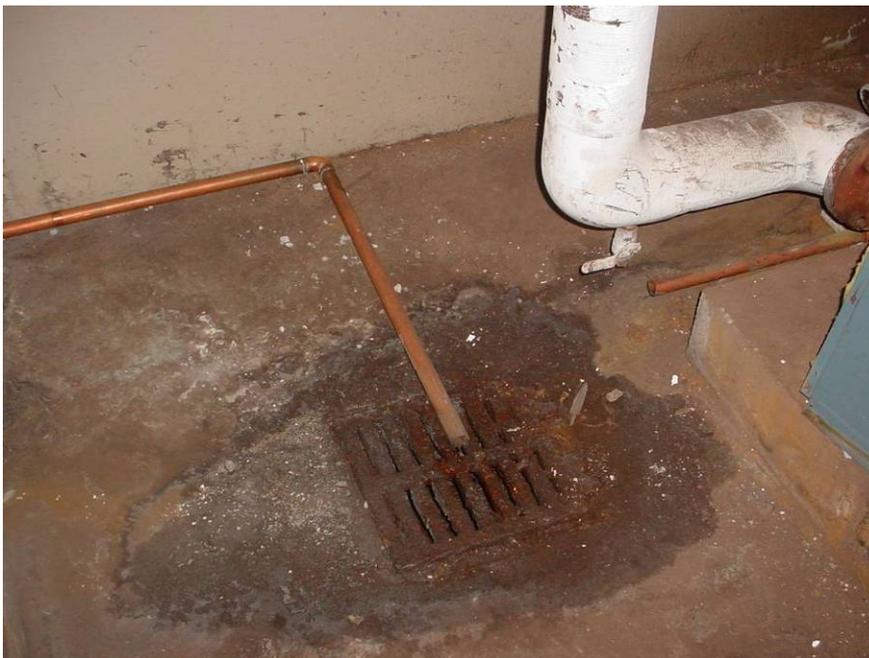
5. OWS located near the rear of the Wash Rack building exterior. General view is to the northwest.



6. OMS building interior. Pooled liquid adjacent to gasoline containers. General view is to the south.



7. Located in the OMS Building are the five flammable cabinets.



8. Drain 1. Administration building interior. Oily residue on Boiler Room floor surrounding floor drain. General view is to the north.



9. Drain 2. Administration building interior. Oily residue on Boiler Room floor surrounding floor drain. General view is to the south.



10. MEP area, mid-west side of Property. Stressed lawn. General view is to the east.



11. Administration building interior. Discontinued pipes and open drain on Boiler Room floor surrounding floor drain. General view is to the west.



12. Administration building interior. Peeling paint above Boiler Room door leading to exterior. General view is to the south.

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

USARTC, Waukegan, IL

1. FACILITY NO. 683		2. DESIGNATION LAND HELD PUR		3. CATEGORY CODE 911 10		4. DESIGNED CAPACITY		5. TOTAL AREA 3.50	
6. UNIT OF MEASURE AC			7. DRAWING NO. 16-06-661			8. MAP NO.		9. <input type="checkbox"/> LEASED <input checked="" type="checkbox"/> OWNED LEASE NO.	
10. AIR CONDITIONING			15. FIRE PROTECTION			18. TYPE OF CONSTRUCTION <input type="checkbox"/> PERM <input type="checkbox"/> SEMI-PERM <input type="checkbox"/> TEMP			
a. TYPE			a. NUMBER			19. BUILDING DIMENSIONS			
b. CAPACITY			b. TYPE			a. MAIN BLDG			
c. SQ YD AIR COND			17. MATERIALS			b. OFFSETS			
11. HEATING			a. FOUNDATION			c. WINGS			
a. SOURCE			b. FLOOR			d. BASEMENT			
b. FUEL			c. WALLS			e. ATTIC			
12. HOT WATER FACILITIES			d. ROOF			20. TYPE OF CARD			
a. CAPACITY			e. SURFACE			<input type="checkbox"/> BLDG <input type="checkbox"/> MISC STR			
b. TEMPERATURE RISE			f. BASE			<input type="checkbox"/> UTIL DIST SYS <input type="checkbox"/> RAILROAD			
13. NO. USABLE FLOORS			14. OTHER MEASUREMENTS			<input checked="" type="checkbox"/> LAND <input type="checkbox"/> SURFACED AREAS			
15. UTILITY CONNECTIONS				21. REMARKS					
	NUMBER	SIZE	CAPACITY	Installation #17885					
a. WATER									
b. SEWER									
c. ELECTRICITY									
d. GAS									
e. STEAM									
f. CONDENSATE									

USARTC, Waukegan, IL

1. FACILITY NO. 684		2. DESIGNATION LAND EAS PRCHD		3. CATEGORY CODE 921 10		4. DESIGNED CAPACITY		5. TOTAL AREA 1	
6. UNIT OF MEASURE AC			7. DRAWING NO.			8. MAP NO.		9. <input type="checkbox"/> LEASED <input checked="" type="checkbox"/> OWNED LEASE NO.	
10. AIR CONDITIONING			16. FIRE PROTECTION			18. TYPE OF CONSTRUCTION			
a. TYPE			a. NUMBER			<input type="checkbox"/> PERM <input type="checkbox"/> SEMI-PERM <input type="checkbox"/> TEMP			
b. CAPACITY			b. TYPE			19. BUILDING DIMENSIONS			
c. SQ YD AIR COND			17. MATERIALS			a. MAIN BLDG			
11. HEATING			a. FOUNDATION			b. OFFSETS			
a. SOURCE			b. FLOOR			c. WINGS			
b. FUEL			c. WALLS			d. BASEMENT			
12. HOT WATER FACILITIES			d. ROOF			e. ATTIC			
a. CAPACITY			e. SURFACE			20. TYPE OF CARD			
b. TEMPERATURE RISE			f. BASE			<input type="checkbox"/> BLDG <input type="checkbox"/> MISC STR			
13. NO. USABLE FLOORS			14. OTHER MEASUREMENTS			<input type="checkbox"/> UTIL DIST SYS <input type="checkbox"/> RAILROAD			
						<input checked="" type="checkbox"/> LAND <input type="checkbox"/> SURFACED AREAS			
15. UTILITY CONNECTIONS					21. REMARKS <i>Installation #17985</i>				
	NUMBER	SIZE	CAPACITY						
a. WATER									
b. SEWER									
c. ELECTRICITY									
d. GAS									
e. STEAM									
f. CONDENSATE									

Appendix D
**Previous Environmental
Site Assessment Reports**

Appendix D Index - List of Previous Investigations

- 1995 45 Day Report
- 1995 Title V Determinations
- 1998 Environmental Compliance Assessment Report
- 1998 Regional Support Command Oil/Water Separator Engineering Study
- 2000 Illinois Section 110 Inventory – Cultural Resources Report
- 2004 OWS System Closure Report
- 2006 Environmental Survey Report: Asbestos, PCB, Lead Based Paint, and Radon Survey



Office of the Illinois
State Fire Marshal

General Office

217-785-0969

FAX

217-782-1062

Divisions

ARSON INVESTIGATION

217-782-6855

BOILER and PRESSURE

VESSEL SAFETY

217-782-2696

FIRE PREVENTION

217-785-4714

MANAGEMENT SERVICES

217-782-9889

INFIRS

217-785-1016

PERSONNEL

217-782-1009

PERSONNEL STANDARDS

and EDUCATION

217-782-4542

PETROLEUM and

CHEMICAL SAFETY

217-785-5878

PUBLIC INFORMATION

217-785-1021

WEB SITE

www.state.il.us/osfm

SECOND NOTICE

12/2/97
OCTOBER 31, 1997

U0023376
HQ FT MMCCOY
2160 SJ ST AFZR-PE-P
FT MCCOY, WI 65656

Re: Facility No. 2033⁷⁵⁶~~500~~
US ARMY RESERVE CENTER
1721 N MCAREE RD
WAUKEGAN, IL 600851499

*Per Betty Carlisle of #11 OSF (217) 785-1020
Federal facilities are not charged
the \$500 permit fee / tank. Also, only
four (4) USTs were removed on-site not
five (5) as was stated below.*

Kim Zacharias

To Whom It May Concern:

Our records indicate that you were invoiced on 04-17-1997, invoice number UST33907, for \$2500.00. As of this date our records indicate a balance due of \$2500.00.

Please forward your payment, along with a copy of this letter to:

Division of Management Services
Illinois State Fire Marshal
P.O. Box 6111
Springfield, IL 62708-6111

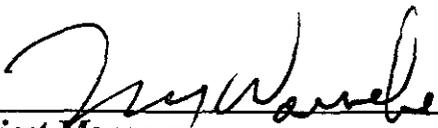
Thank you for your cooperation in this matter.

88
IL074

closed

45 DAY REPORT
LPC #0971905252 - LAKE COUNTY
U.S. ARMED FORCES RESERVE CENTER
1721 NORTH MCAREE ROAD
WAUKEGAN, ILLINOIS
LUST INCIDENT # 941954

PREPARED BY:
Environmental Contractors of Illinois, Inc.
5290 Nintz Road
Loves Park, Illinois 61111


Project Manager _____ Date July 27, 1995

Illinois Environmental Protection Agency Leaking Underground Storage Tank Program 45 Day Report

A. Site Identification :

IEMA Incident # (6 digit): 941954 IEPA Generator # (10 digit): 0971905252
Site Name: U.S. ARMED FORCES RESERVE CENTER
Site Address (Not a P.O. Box): 1721 N. MC AREE ROAD
City: WAUKEGAN County: LAKE

B. Release Information

1. Indicate the material(s) released: #2 FUEL OIL
2. The material released was (check all that apply):
 - a. Petroleum X
 - b. Nonpetroleum
3. Is there information included herewith (beyond what is required in the 45 Day Report) that is intended to demonstrate no further remediation to be necessary (with or without a request for Site Specific Objectives)? Yes X No
SEE ATTACHMENT B.3. FOR THE REQUEST FOR SITE SPECIFIC OBJECTIVES

C. Early Action

1. What was the volume (in cubic yards) of backfill material and/or native soil removed? 120 c.y.
(if any backfill material and/or native soil was removed and disposed of off-site attach a legible copy of the manifest(s)).
2. Was groundwater encountered at the site? Yes No X
If Yes, was any groundwater removed or discharged from the site? Yes No
If Yes, what was the volume removed from the site?
Include a legible copy of the manifest(s) or permits.
3. Was free product encountered? Yes No X
If Yes, the owner/operator must submit a free product removal report within 45 days of reporting the release.

D. Site Information

1. Data on the nature and estimated quantity of the release.
2. Data from available sources or site investigations concerning the following factors:
 - a. Surrounding populations,
 - b. Water quality,
 - c. Use and approximate locations of wells potentially affected by the release,
 - d. Subsurface soil conditions,
 - e. Climatological conditions,
 - f. Land use.

3. A discussion of what was done to measure for the presence of a release where contamination was most likely to be present at the UST site.
4. Results of the free product investigations.
5. A discussion of the action taken to prevent further release of the regulated substance into the environment.
6. A discussion of the action taken to mitigate fire and safety hazards posed by vapors or free product that has migrated from the UST excavation zone and entered subsurface structures.
7. Any other information collected while performing initial abatement measures pursuant to 35 Ill. Adm. Code Section 732.162 or 732.202(b).

E. Supporting Documentation

1. Site and area maps (at a minimum should contain).
 - a. Site map to scale and oriented north showing:
 - i. UST(s) system(s) and excavation,
 - ii. Product and dispenser lines,
 - iii. Pump and islands,
 - iv. Underground utilities (sewer, gas, water, etc.),
 - v. Nearby structures (buildings, roads, etc.)
 - vi. Soil boring(s) (if present),
 - vii. Monitoring well(s) and/or sumps (if present),
 - viii. Property boundaries;
 - b. A cross section, to scale, with dimensions showing the UST(s) and the excavation; and
 - c. An area map showing the site in relation to surrounding properties. This map should identify the facilities on the surrounding properties.
2. UST(s) information (which must be in a tabular format and at a minimum should include):
 - a. total number of UST(s) on site,
 - b. the volume of the UST(s) (in gallons),
 - c. the material stored in the UST(s),
 - d. identification of UST system(s) that had a release,
 - e. identification of UST system(s) that were repaired, removed, or abandoned-in-place,
 - f. a copy of the Office of the State Fire Marshal Permit for Removal, Abandonment-in-Place or other OSFM permits or notifications.
3. Provide a narrative of tank removal and cleaning operations; describe how wastes generated during the tank removal were managed, treated, and disposed.
4. Photographs.

F. Signatures

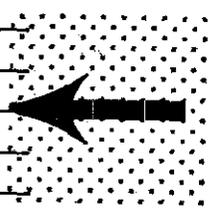
I certify under penalty of law that this report, supporting documents and all attachments were prepared under my direction or supervision. To the best of my knowledge and belief, this report, supporting documents and all attachments are true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Owner

Name: _____
Title: _____
Address: _____
Phone: _____
Signature: _____
Date: _____

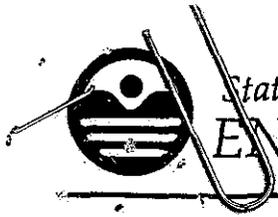
Operator

Name: _____
Title: _____
Address: _____
Phone: _____
Signature: _____
Date: _____



Consultant

Firm: ENVIRONMENTAL CONTRACTORS OF ILLINOIS, INC.
Contact: MATT WARNEKE
Title: PROJECT MANAGER
Address: 5290 NIMTZ ROAD
LOVES PARK, ILLINOIS 61111
Phone: (815) 654-4726
Signature: *Matt Warneke*
Date: 7-27-95



State of Illinois

ENVIRONMENTAL PROTECTION AGENCY

Rec'd
3/18/96
A

Mary A. Gade, Director

2200 Churchill Road, Springfield, IL 62794-9276

217/782-6761

JAN 18 1996

Department of the Army
Attention: Mr. Dave Jennings
Headquarters, 86th U.S. Army Reserve Command
7402 West Roosevelt Road
Forest Park, Illinois 60130-2587

Re: LPC #0971905252 -- Lake County
Waukegan/86th Army Reserve Command
1721 North McAree Road
LUST Incident No. 941954
LUST Technical File

Dear Mr. Jennings:

The Illinois Environmental Protection Agency has reviewed the Professional Engineer Certification Form which has been submitted for the above referenced LUST incident. This information was dated November 1, 1995, was received by the Agency November 3, 1995, and was prepared by Environmental Contractors of Illinois, Inc.

The Corrective Action Completion Report and the Professional Engineer Certification submitted pursuant to 35 IAC Section 732.300(b)(1) and Section 732.409(b) have demonstrated that the remediation objectives set forth in 35 IAC Section 732.408 have been met.

Based upon (a) the certification by Charles J. Howard, a registered Professional Engineer of Illinois, and (b) the certification by William J. Hawes, the owner and operator of the underground storage tank(s), it appears that all corrective action requirements of Title XVI of the Act and 35 Illinois Administrative Code Part 732 for the release of petroleum from the underground storage tank(s) have been satisfied.

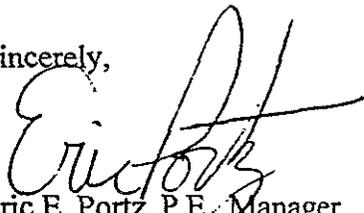
For purposes of appeal, this constitutes the Agency's final decision regarding the above matters. Please see Appendix 1 for an owner or operator's appeal rights.

Please note, this plan or report has been reviewed and approved for purposes of Title XVI only, the activities approved may not be sufficient to satisfy USEPA's requirements under 40 CFR 280.

Page 2

If you have any questions or require further assistance, please contact Michael Davison of my staff at 217/782-6761.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric Portz". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Eric E. Portz, P.E., Manager
Engineering Unit
Leaking Underground Storage Tank Section
Division of Remediation Management
Bureau of Land

EEP:MD;jk\9634943.WPD

Appendices: 1

cc: Environmental Contractors of Illinois, Inc.



State of Illinois

ENVIRONMENTAL PROTECTION AGENCY

Mary A. Gade, Director
217/782-6761

2200 Churchill Road, Springfield, IL 62794-9276

CERTIFIED MAIL

Z 365757668

OCT 10 1995

Department of the Army
Headquarters, 86th U.S. Army Reserve Command
Attn: Mr. Dave Jennings
7402 West Roosevelt Road
Forest Park, Illinois 60130-2587

Re: LPC #0971905252 – Lake County
Waukegan/86th Army Reserve Command
1721 North McAree Road
LUST Incident No. 941954
LUST TECHNICAL FILE

Dear Mr Jennings:

The Illinois Environmental Protection Agency has reviewed the 45 Day Report and the Request for Site Specific Cleanup Objectives that was submitted for the above referenced LUST incident. This information was dated August 4, 1995 and was received by the Agency on August 16, 1995. The report was reviewed for the purpose of establishing site specific clean up objectives pursuant to 35 Illinois Administrative Code Section 732.408(b).

Your request for site specific clean up objectives has been reviewed and approved. However, the Agency has determined pursuant to 35 Illinois Administrative Code Section 732.410(d), that a "no further remediation" letter cannot be issued for the following reason(s):

Pursuant to 35 Illinois Administrative Code Section 732.409(b), a certification by a Licensed Professional Engineer certifying that the information presented in the applicable report is accurate and complete and corrective action has been completed in accordance with the requirements of the Illinois Environmental Protection Act and 35 Illinois Administrative Code Part-732, Subpart D, has not been submitted.

The Professional Engineer Certification Form must refer to this letter.

Page 2

Please submit a Professional Engineer Certification within sixty (60) days of date of this letter to:

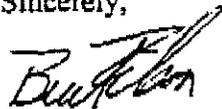
Illinois Environmental Protection Agency
Bureau of Land
Division of Remediation Management
Leaking Underground Storage Tank Section
2200 Churchill Road
Post Office Box 19276
Springfield, Illinois 62794-9276

Please include the Re: block at the beginning of this letter on all correspondence. In addition, all correspondence must be submitted in duplicate.

For purposes of appeal, this constitutes the Agency's final decision regarding the above matters. Please see Appendix 1 for an owner or operator's appeal rights.

Please contact Michael Davison at 217/782-6761 if you have any questions.

Sincerely,



Bur Filson, Manager
State Sites Unit
Leaking Underground Storage Tank Section
Division of Remediation Management
Bureau of Land

BF:MD:dks\95827.WPD

Appendices: 1

cc: Environmental Contractors of Illinois, Inc.

Illinois Environmental Protection Agency Leaking Underground Storage Tank Program Professional Engineer Certification

A. Site Identification

IEPA Incident # (649): 941954 IEPA Generator # (649): 0971905252
 Site Name: WAUKEGAN U.S. ARMY RESERVE CENTER
 Site Address (Not a P.O. Box): 1721 N. MCAREE ROAD
 City: WAUKEGAN County: LAKE

B. Certification

The release from the Underground Storage Tank(s) System associated with Incident Number (649) 941954 at the facility described in the attached Corrective Action Completion Report dated JULY 21, 1995, has been remediated in accordance with 35 Ill. Adm. Code, Part _____ and other applicable rules and regulations. The remediation has achieved the clean-up objectives set forth by the Agency in:

- Leaking Underground Storage Tank, Soil Sampling Requirements (Feb. 1993) _____
- Leaking Underground Storage Tank Manual, Fall 1991 (IEPA/LPC/91-203) _____
- Guidance Manual for Petroleum-Related LUST Cleanups in Illinois, Spring 1990 (IEPA/LPC/90-47) _____
- Appendix B (from 35 Ill. Adm. Code Part 732) X
- Site Specific Cleanup Objectives set forth by the Agency in the letter dated _____
- Other Specify document _____

I certify under penalty of law that the corrective action completion report, supporting documents and all attachments were prepared under my direction or supervision or were reviewed by me. To the best of my knowledge and belief, the attached Corrective Action Completion Report, supporting documents and all attachments are true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of the fine and imprisonment for knowing violations.

Professional Engineer

P.E. Seal

Name: CHUCK HOWARD
 Firm: ENVIRONMENTAL CONTRACTORS OF ILLINOIS, INC.
 Address: 5290 NIMTZ ROAD
LOVES PARK, IL 61111
 Phone: (815) 654-4726
 Ill. Registration No.: 062-038377
 License Expiration Date: 11/30/95
 Signature: [Signature]
 Date: 10-30-95

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 - 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/57.17). This form has been approved by the Permit Management Center.

885T



State of Illinois
ENVIRONMENTAL PROTECTION AGENCY

Mary A. Gade, Director

2200 Churchill Road, Springfield, IL 62794-9276

217/782-6761

CERTIFIED MAIL

2362759781

DEC 07 1995

86th Army Reserve Command
7402 West Roosevelt Rd.
Forest Park, Illinois 60130-2587

Re: LPC #0971905252 -- Lake County
Waukegan/86th Army Reserve Command
1721 North McAree Rd.
LUST Incident No. 941954
LUST TECHNICAL FILE

Dear Owner/Operator:

The Illinois Environmental Protection Agency has received the Corrective Action Completion Report (report) submitted for the above referenced incident.

In accordance with 35 Illinois Administrative Code Section 732.503(g)(2), the Agency is notifying you that the report dated November 1, 1995 and received November 3, 1995 has been selected for a full review. Additional correspondence regarding the report submitted will be issued, if necessary, within 120 days of the date the report was received.

The Agency's decision to select a report or plan does not preclude an owner or operator from continuing Site Classification and/or Corrective Action in accordance with 35 Illinois Administrative Code Part 732 at the above referenced site prior to receiving additional correspondence from the Agency pursuant to Section 57.7(e)(1) of the Illinois Environmental Protection Act. A selection notification is only intended to inform an owner or operator that a particular document has or has not been selected for a full review.

Please note this letter does not constitute approval of the above referenced report.

Should you have any questions, please contact the project manager on-call in the Leaking Underground Storage Tank Section at the above number.

Sincerely,

Handwritten signature of Douglas W. Clay in black ink.

Douglas W. Clay, P.E., Manager
Leaking Underground Storage Tank Section
Division of Remediation Management
Bureau of Land

DWC:GP:rmi\95253.WPD

CITY of WAUKEGAN



MAYOR WILLIAM F. DURKIN
CITY CLERK SAM FILIPPO
TREASURER DAN DREW

FIRE DEPARTMENT
1101 Belvidere Street
Waukegan, Illinois 60085
Charles R. Perkey, Fire Chief
(708) 249-5410
FAX (708) 249-5607

WAUKEGAN FIRE DEPARTMENT BUREAU OF FIRE PREVENTION

UNDERGROUND STORAGE TANK CLOSURE / REMOVAL

NAME OF COMPANY U.S. ARMY RESERVE CENTER PHONE 708/662-1125
ADDRESS 1721 N. MC AREE ROAD, WAUKEGAN, IL 60085-1499
DATE 4/27/95 AND 4/28/95 TIME N/A INSPECTOR OSEM SUE DWYER
CONTRACTOR ENVIORNMENTAL CONTRACTORS OF ILLINOIS INC. PH 815/654-4726
ADDRESS 5290 NIMTZ ROAD CITY LOVES PARK ST IL ZIP 61111
SITE CONTACT MIKE TORTORICI CONTRS REG # 363692550

Illinois Fire Marshall Yes No Permit Number 0020-95 REM
Illinois E.P.A. : Yes No Permit / Incident Number 941954
Waukegan: Yes No

* No Permits No Work Prefomed / Allowed *

Tank / Tanks

	<u>Contents</u>	<u>Size</u>	<u>Product In Tank</u>	<u>Apparent Condition</u>
No. 1	<u>#2 FUEL OIL</u>	<u>1500 GAL.</u>	<u>YES</u>	<u>GOOD</u>
No. 2	<u>#2 FUEL OIL</u>	<u>550 GAL.</u>	<u>YES</u>	<u>POOR-HOLES IN TANK</u>
No. 3	<u>#2 FUEL OIL</u>	<u>6000 GAL.</u>	<u>YES</u>	<u>GOOD</u>
No. 4	<u>#2 FUEL OIL</u>	<u>3000 GAL.</u>	<u>YES</u>	<u>GOOD</u>

Location of tanks and property 3 DIFFERENT LOCATIONS AT RESERVE CENTER (WEST/CENTER/EAST)

JULIE Notified: Yes No Date Notified _____ Dig Number _____

Product removed from Tank / s: Yes No 5200 GAL.

By whom TANK AND INDUSTRIAL CLEANING SERVICES (TICS) Phone Number 815/394-3880

Licensed waste hauler: Yes No Illinois EPA Number 2990

OFFICE OF THE ILLINOIS STATE FIRE MARSHAL
Division of Petroleum and Chemical Safety
1035 Stevenson Drive
Springfield, Illinois 62703-4259

FOR OFFICE USE ONLY
Facility # 2-033756
Permit # 0020-95 REM
Request Rec'd 12-28-94/1-12-95
Approval Date 1-4-95/1-13-95
Permit Expires 7-4-95

REVISED PERMIT FOR REMOVAL OF
UNDERGROUND STORAGE TANKS FOR PETROLEUM AND HAZARDOUS SUBSTANCES

Permission to remove underground storage tank or tanks and piping is hereby granted. Such removal shall not commence until As Directed. A seventy-two (72) hour - 3 working day notice given by the contractor is required to confirm final date of the removal for confirmation of our Inspector to be on site. This Office Phone Number is 217-785-5878 or 217-785-1020. THIS PERMIT IS VALID FOR 6 MONTHS FROM THE APPROVAL DATE.

You must notify IEMA 1-800-782-7860 within 24 hours of leaks or contaminated soil.

Removal must be in accordance with acceptable closure requirements and procedures, such as API Bulletin 1604. A site assessment must be conducted to determine if a release has occurred.

- 1) Owner - corporation, partnership or other business entity:

HQ 86th US ARCOM ATTN:AFRC AIL EN

Name
7402 W. Roosevelt Road
Street Address
Forest Park IL 60130-2587
City State Zip
Dave Jennings (708) 209-2597
Contact Person Phone

- 2) Name and Location of Facility Where Removal is to Occur:

Armed Forces Reserve Center

Name
1721 North McAree Road
Street Address
Waukegan IL 60085-1499
City County Zip
Mike Tortorici (708) 662-1125
Contact Person Phone

- 3)

- a) (5)-3000 gallon
b) Number and size of tanks being removed
Tanks are leaking - 94-1954

Reason for removal of tanks

- 4) Person, Firm or Company Performing Work:

Environmental Contractors of Illinois Inc.

Name
5290 Nimitz Road
Street Address
Loves Park IL 61111
City State Zip
(815) 654-4726 363-69-2550
Contact Person/Phone Registration No.

- 5) Owner must notify this Office when completion of tank removal has occurred, on OSFM Notification Form. Please note a OSFM Notification Form has been forwarded to the name and address shown in Item 1 (All pages of this form must be completed).

JG
cc: DPCS Specialist Dwyer
Fire Department JS
Division File
Office Associate

Sincerely, W. Dale Tanke
W. Dale Tanke, Storage Tank Safety Engineer

**Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
Request for Site Specific Cleanup Objectives**

A. Site Identification

IEMA Incident # (6 digit): 941954 IEPA Generator # (10 digit): 097905252
Site Name: U.S. ARMED FORCES RESERVE CENTER
Site Address (Not a P.O. Box): 1721 N. McAREE ROAD
City: WAUKEGAN County: LAKE

B. Site Information

1. Is the owner/operator performing corrective action pursuant to Title XVI? Yes No
2. If the owner/operator is not performing corrective action pursuant to Title XVI, the soil type is Type A Type B
3. Was groundwater impacted at the site? Yes No
If Yes, then what is the groundwater classification at the site (Check One)?
Class I
Class II
Class III
Class IV
4. This request for site specific objectives is due to:
 - a. A release of hazardous substance.
 - b. A release of specific chemical(s).
 - c. A release of used oil.
 - d. A release for which objectives have been established BUT DUE TO SITE-SPECIFIC FACTORS, THE OWNER OR OPERATOR IS REQUESTING THAT NO FURTHER REMEDIATION BE REQUIRED.

C. Support for Site Specific Objectives

Provide the following:

1. The media of concern (such as soil/groundwater).
2. An estimate of the amount of media remaining above cleanup objectives (soil - cubic yards; groundwater - gallons).
3. A brief description of facility operations. Include current and future activities and the degree of public access.
4. Identification of adjacent businesses or facilities. Provide a brief description of facility operations.
5. A general description of the site area (commercial, residential, etc.).
6. A brief discussion of potentially exposed populations (human and environmental) and other sensitive receptors.

7. A brief summary of site geology/hydrogeology. Include depth to groundwater, groundwater flow direction, native soil types, nearby surface waters, nearby potable wells.
8. A brief discussion of potential preferential pathways (i.e. utilities) for migration of contamination.
9. Identification of risks are hazards presented by leaving contamination in place AND provide options or recommendations for minimizing these risks or hazards.
10. If the site will be paved over, indicate the type and depth of pavement (asphalt, concrete).
11. Provide technical justification for this request. Include a discussion for the potential use of alternate technologies to reduce contaminant concentrations.
12. Maps to scale and oriented north:
 - a. Topographic map. Indicate township, section and range. Identify all public wells within 3,000 feet and private wells within 500 feet of the site.
 - b. Site map showing:
 - i. The contaminant plume in soil or groundwater,
 - ii. All underground utilities which may serve as pathways for migration of contaminants (water, gas, electrical, etc.),
 - iii. Nearby structures,
 - iv. Property boundaries,
 - v. Sampling locations,
 - vi. Monitoring well locations (if present).
 - vii. Soil boring locations (if present).
13. Analytical summaries. Present in tabular form showing the concentration of contaminants in soil and/or groundwater.
14. A discussion on the presence or absence of groundwater in contact with contaminated soil and/or the presence or absence of free product.

D. Signatures

Owner

Operator

Name: _____

Name: _____

Title: _____

Title: _____

Address: _____

Address: _____

Phone: _____

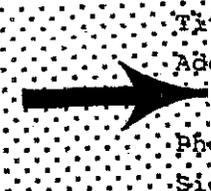
Phone: _____

Signature: _____

Signature: _____

Date: _____

Date: _____



Consultant

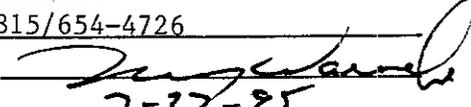
Firm: ENVIRONMENTAL CONTRACTORS OF ILLINOIS, INC.

Contact: MATT WARNEKE

Title: PROJECT MANAGER

Address: 5290 NIMTZ ROAD
LOVES PARK, IL 61111

Phone: 815/654-4726

Signature: 

Date: 7-27-95



State of Illinois

ENVIRONMENTAL PROTECTION AGENCY

11074

Mary A. Gade, Director

2200 Churchill Road, Springfield, IL 62794-9276

217/782-6761

CLOSED

JAN 18 1996

550 gallon fuel oil
LUST Clean Closure
Letter.

Department of the Army
Attention: Mr. Dave Jennings
Headquarters, 86th U.S. Army Reserve
7402 West Roosevelt Road
Forest Park, Illinois 60130-2587

Re: LPC #0971905252 -- Lake County
Waukegan/86th Army Reserve Command
1721 North McAree Road
LUST Incident No. 941954
LUST Technical File

Dear Mr. Jennings:

The Illinois Environmental Protection Agency has reviewed the Professional Engineer Certification Form which has been submitted for the above referenced LUST incident. This information was dated November 1, 1995, was received by the Agency November 3, 1995, and was prepared by Environmental Contractors of Illinois, Inc.

The Corrective Action Completion Report and the Professional Engineer Certification submitted pursuant to 35 IAC Section 732.300(b)(1) and Section 732.409(b) have demonstrated that the remediation objectives set forth in 35 IAC Section 732.408 have been met.

Based upon (a) the certification by Charles J. Howard, a registered Professional Engineer of Illinois, and (b) the certification by William J. Hawes, the owner and operator of the underground storage tank(s), it appears that all corrective action requirements of Title XVI of the Act and 35 Illinois Administrative Code Part 732 for the release of petroleum from the underground storage tank(s) have been satisfied.

For purposes of appeal, this constitutes the Agency's final decision regarding the above matters. Please see Appendix 1 for an owner or operator's appeal rights.

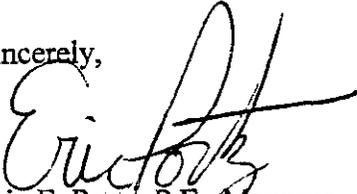
Please note, this plan or report has been reviewed and approved for purposes of Title XVI only, the activities approved may not be sufficient to satisfy USEPA's requirements under 40 CFR 280.

SCREENED
JAN 18 1996
DJH

Page 2

If you have any questions or require further assistance, please contact Michael Davison of my staff at 217/782-6761.

Sincerely,



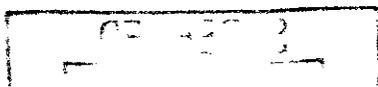
Eric E. Portz, P.E., Manager
Engineering Unit
Leaking Underground Storage Tank Section
Division of Remediation Management
Bureau of Land

EEP:MD;jk\9634943.WPD

Appendices: 1

cc: Environmental Contractors of Illinois, Inc.

bcc: Eric Portz
Division
Mike Davison



Appendix 1

An underground storage tank owner or operator may appeal this final decision to the Illinois Pollution Control Board (Board) pursuant to Section 57.8(i) and Section 40 of the Illinois Environmental Protection Act. An owner or operator who seeks to appeal the Agency's decision may, within 35 days after the notification of the final Agency decision, petition for a hearing before the Board; however, the 35-day period may be extended for a period of time not to exceed 90 days by written notice provided to the Board from the applicant and the Agency within the 35-day initial appeal period.

For information regarding the filing of an appeal, please contact:

Dorothy Gunn, Clerk
Illinois Pollution Control Board
State of Illinois Center
100 West Randolph, Suite 11-500
Chicago, Illinois 60601
312/814-3620

For information regarding the filing of an extension, please contact:

Illinois Environmental Protection Agency
Division of Legal Counsel
2200 Churchill Road
Post Office Box 19276
Springfield, Illinois 62794-9276
217/782-5544



DEPARTMENT OF THE ARMY
HEADQUARTERS, 86TH U.S. ARMY RESERVE COMMAND
7402 WEST ROOSEVELT ROAD
FOREST PARK, ILLINOIS 60130-2587

0971905252-Lake
86th Army Reserve Command
List

August 4, 1995

Office of the Engineer

Illinois Environmental Protection Agency
Land Pollution Control Division
Leaking Underground Storage Tank Section
2200 Churchill Road
Springfield, IL 62794-9276

Re: IEMA Incident # 941954
U.S. Armed Forces Reserve Center
1721 N. McAree Rd
Waukegan, IL 60085-1499
Lake County

RECEIVED
AUG 16 1995
IEPADLPC

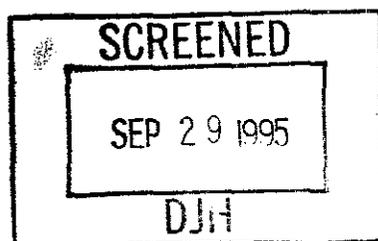
Dear Sir/Madam,

Enclosed are two copies of the 45-day report and a request for site specific cleanup objectives for the subject incident. Site specific objectives are requested for this site because removal of the approximately 5 cubic yards of contaminated soil that remain could endanger the building's foundation and there appears to be minimal risk of migration of the contamination.

If you have any questions, please call the staff Environmental Manager, Mr. Dave Jennings, at (708) 209-2597.

Sincerely,

ROBERT M. DONNICK, SR
Command Executive Officer



Illinois Environmental Protection Agency Leaking Underground Storage Tank Program 45 Day Report

A. Site Identification :

IEMA Incident # (6 digit): 941954 IEPA Generator # (10 digit): 0971905252
Site Name: U.S. ARMED FORCES RESERVE CENTER
Site Address (Not P.O. Box): 1721 N. MC AREE ROAD
City: WAUKEGAN County: LAKE

B. Release Information

1. Indicate the material(s) released: #2 FUEL OIL

2. The material released was (check all that apply):

- a. Petroleum X
b. Nonpetroleum

3. Is there information included herewith (beyond what is required in the 45 Day Report) that is intended to demonstrate no further remediation to be necessary (with or without a request for Site Specific Objectives)? Yes X No
SEE ATTACHMENT B.3. FOR THE REQUEST FOR SITE SPECIFIC OBJECTIVES

C. Early Action

1. What was the volume (in cubic yards) of backfill material and/or native soil removed? 120 c.y.
(if any backfill material and/or native soil was removed and disposed of off-site attach a legible copy of the manifest(s)).

2. Was groundwater encountered at the site? Yes No X
If Yes, was any groundwater removed or discharged from the site? Yes No
If Yes, what was the volume removed from the site?
Include a legible copy of the manifest(s)) or permits.

3. Was free product encountered? Yes No X
If Yes, the owner/operator must submit a free product removal report within 45 days of reporting the release.

D. Site Information

1. Data on the nature and estimated quantity of the release.
2. Data from available sources or site investigations concerning the following factors:
- a. Surrounding populations,
 - b. Water quality,
 - c. Use and approximate locations of wells potentially affected by the release,
 - d. Subsurface soil conditions,
 - e. Climatological conditions,
 - f. Land use.

RECEIVED
AUG 16 1995
IEPA/DLPC

F. Signatures

I certify under penalty of law that this report, supporting documents and all attachments were prepared under my direction or supervision. To the best of my knowledge and belief, this report, supporting documents and all attachments are true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Owner

Name: William J. Hawes
Title: ARCOM Engineer
Address: 7402 W Roosevelt Rd
Forest Park, IL 60130-2587
Phone: (708) 209-2597
Signature: *William J. Hawes*
Date: 4 AUG 95

Operator

Name: _____
Title: _____
Address: _____
Phone: _____
Signature: _____
Date: _____

Consultant

Firm: ENVIRONMENTAL CONTRACTORS OF ILLINOIS, INC.
Contact: MATT WARNEKE
Title: PROJECT MANAGER
Address: 5290 NIMTZ ROAD
LOVES PARK, ILLINOIS 61111
Phone: (815) 654-4726
Signature: *Matt Warneke*
Date: 7-27-95

**Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
Request for Site Specific Cleanup Objectives**

A. Site Identification

IEMA Incident # (6 digit): 941954 IEPA Generator # (10 digit): 097905252
Site Name: U.S. ARMED FORCES RESERVE CENTER
Site Address (Not a P.O. Box): 1721 N. McAREE ROAD
City: WAUKEGAN County: LAKE

B. Site Information

1. Is the owner/operator performing corrective action pursuant to Title XVI? Yes No
2. If the owner/operator is not performing corrective action pursuant to Title XVI, the soil type is Type A Type B
3. Was groundwater impacted at the site? Yes No
If Yes, then what is the groundwater classification at the site (Check One)?

Class I
Class II
Class III
Class IV

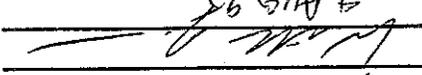
4. This request for site specific objectives is due to:

- a. A release of hazardous substance.
- b. A release of specific chemical(s).
- c. A release of used oil.
- d. A release for which objectives have been established BUT DUE TO SITE-SPECIFIC FACTORS, THE OWNER OR OPERATOR IS REQUESTING THAT NO FURTHER REMEDIATION BE REQUIRED.

C. Support for Site Specific Objectives

Provide the following:

1. The media of concern (such as soil/groundwater).
2. An estimate of the amount of media remaining above cleanup objectives (soil - cubic yards; groundwater - gallons).
3. A brief description of facility operations. Include current and future activities and the degree of public access.
4. Identification of adjacent businesses or facilities. Provide a brief description of facility operations.
5. A general description of the site area (commercial, residential, etc.).
6. A brief discussion of potentially exposed populations (human and environmental) and other sensitive receptors.

Operator	Owner
Name: _____	Name: William J. Hawes
Title: _____	Title: ARCOM Engineer
Address: _____	Address: 7402 W Roosevelt Rd Forest Park, IL 60130-2587
Phone: _____	Phone: (708) 209-2597
Signature: _____	Signature: 
Date: _____	Date: 4 Aug 95

D. Signatures

7. A brief summary of site geology/hydrogeology. Include depth to groundwater, groundwater flow direction, native soil types, nearby surface waters, nearby potable wells.
8. A brief discussion of potential preferential pathways (i.e. utilities) for migration of contamination.
9. Identification of risks are hazards presented by leaving contamination in place AND provide options or recommendations for minimizing these risks or hazards.
10. If the site will be paved over, indicate the type and depth of pavement (asphalt, concrete).
11. Provide technical justification for this request. Include a discussion for the potential use of alternate technologies to reduce contaminant concentrations.
12. Maps to scale and oriented north:
 - a. Topographic map. Indicate township, section and range. Identify all public wells within 3,000 feet and private wells within 500 feet of the site.
 - b. Site map showing:
 - i. The contaminant plume in soil or groundwater,
 - ii. All underground utilities which may serve as pathways for migration of contaminants (water, gas, electrical, etc.),
 - iii. Nearby structures,
 - iv. Property boundaries,
 - v. Sampling locations,
 - vi. Monitoring well locations (if present).
 - vii. Soil boring locations (if present).
13. Analytical summaries. Present in tabular form showing the concentration of contaminants in soil and/or groundwater.
14. A discussion on the presence or absence of groundwater in contact with contaminated soil and/or the presence or absence of free product.

Consultant

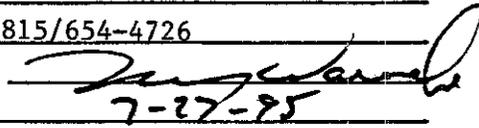
Firm: ENVIRONMENTAL CONTRACTORS OF ILLINOIS, INC.

Contact: MATT WARNEKE

Title: PROJECT MANAGER

Address: 5290 NIMTZ ROAD
LOVES PARK, IL 61111

Phone: 815/654-4726

Signature: 

Date: 7-27-95

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 - 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/57.17). This form has been approved by the Forms Management Center.



State of Illinois

ENVIRONMENTAL PROTECTION AGENCY

Mary A. Gade, Director

217/782-6761

2200 Churchill Road, Springfield, IL 62794-9276

NOV 13 1995

CERTIFIED MAIL

236378898

86th Army Reserve Command
Attn: Dave Jennings
7402 West Roosevelt Rd.
Forest Park, Illinois 60130-2587

Re: LPC #0971905252 -- Lake County
Waukegan/86th Army Reserve Command
1721 North Mcaree Rd.
LUST Incident No. 941954
LUST TECHNICAL FILE

Dear Owner/Operator:

The Illinois Environmental Protection Agency has received the Corrective Action Completion Report (report) submitted for the above referenced incident.

In accordance with 35 Illinois Administrative Code Section 732.503(g)(2), the Agency is notifying you that the report dated November 1, 1995 and received November 3, 1995 has been selected for a full review. Additional correspondence regarding the report submitted will be issued, if necessary, within 120 days of the date the report was received.

The Agency's decision to select a report or plan does not preclude an owner or operator from continuing Site Classification and/or Corrective Action in accordance with 35 Illinois Administrative Code Part 732 at the above referenced site prior to receiving additional correspondence from the Agency pursuant to Section 57.7(e)(1) of the Illinois Environmental Protection Act. A selection notification is only intended to inform an owner or operator that a particular document has or has not been selected for a full review.

Please note this letter does not constitute approval of the above referenced report.

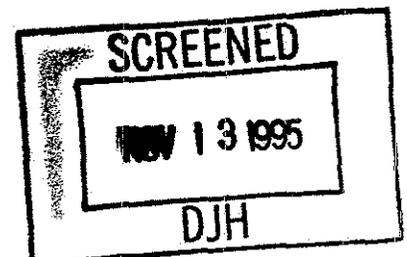
Should you have any questions, please contact the project manager on-call in the Leaking Underground Storage Tank Section at the above number.

Sincerely,

Douglas W. Clay, P.E., Manager
Leaking Underground Storage Tank Section
Division of Remediation Management
Bureau of Land

DWC:GP:rmi\955213.WPD

bcc: Division File



0971905252-Lake
86th Army Reserve Command
LUST

RECEIVED
NOV 03 1995
IEPA/DLPC

November 1, 1995

Illinois Environmental Protection Agency
Bureau of Land
Division of Remediation Management
Leaking Underground Storage Tank Section
2200 Churchill Road
P.O. Box 19276
Springfield, IL 62794-9276

Environmental
and remediation
contracting

ATTN: BUR FILSON

RE: LPC #097190252 -- LAKE COUNTY
WAUKEGAN/86TH ARMY RESERVE COMMAND
1721 NORTH MCAREE ROAD
LUST INCIDENT NO. 941954
LUST TECHNICAL FILE

5290 Nimitz
Road
Loves Park
Illinois 61111

Dear Mr. Filson:

This correspondence is in response to your letter addressed to Mr. Dave Jennings,
Department of the Army, Forest Park, Illinois (copy attached).

Enclosed in duplicate is a Professional Engineer Certification form for the site
referenced above.

Please contact me at (815) 654-4726 if you have any questions.

P.O. Box 2071
Loves Park
Illinois 61130

Sincerely,

ENVIRONMENTAL CONTRACTORS OF ILLINOIS, INC.

Matthew J. Wameke

MJW:wjw
Enclosures
cc: Dave Jennings, Dept. of the Army

815.654.4726
Fax 815.654.4736

WAUEPA.DOC

SCREENED
JAN 13 1996
DJH



State of Illinois

ENVIRONMENTAL PROTECTION AGENCY

Mary A. Gade, Director
217/782-6761

2200 Churchill Road, Springfield, IL 62794-9276

CERTIFIED MAIL

Z 365757668

OCT 10 1995

Department of the Army
Headquarters, 86th U.S. Army Reserve Command
Attn: Mr. Dave Jennings
7402 West Roosevelt Road
Forest Park, Illinois 60130-2587

Re: LPC #0971905252 -- Lake County
Waukegan/86th Army Reserve Command
1721 North McAree Road
LUST Incident No. 941954
LUST TECHNICAL FILE

Dear Mr. Jennings:

The Illinois Environmental Protection Agency has reviewed the 45 Day Report and the Request for Site Specific Cleanup Objectives that was submitted for the above referenced LUST incident. This information was dated August 4, 1995 and was received by the Agency on August 16, 1995. The report was reviewed for the purpose of establishing site specific clean up objectives pursuant to 35 Illinois Administrative Code Section 732.408(b).

Your request for site specific clean up objectives has been reviewed and approved. However, the Agency has determined pursuant to 35 Illinois Administrative Code Section 732.410(d), that a "no further remediation" letter cannot be issued for the following reason(s):

Pursuant to 35 Illinois Administrative Code Section 732.409(b), a certification by a Licensed Professional Engineer certifying that the information presented in the applicable report is accurate and complete and corrective action has been completed in accordance with the requirements of the Illinois Environmental Protection Act and 35 Illinois Administrative Code Part 732, Subpart D, has not been submitted.

The Professional Engineer Certification Form must refer to this letter.

Page 2

Please submit a Professional Engineer Certification within sixty (60) days of date of this letter to:

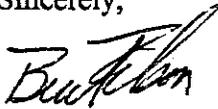
Illinois Environmental Protection Agency
Bureau of Land
Division of Remediation Management
Leaking Underground Storage Tank Section
2200 Churchill Road
Post Office Box 19276
Springfield, Illinois 62794-9276

Please include the Re: block at the beginning of this letter on all correspondence. In addition, all correspondence must be submitted in duplicate.

For purposes of appeal, this constitutes the Agency's final decision regarding the above matters. Please see Appendix 1 for an owner or operator's appeal rights.

Please contact Michael Davison at 217/782-6761 if you have any questions.

Sincerely,



Bur Filson, Manager
State Sites Unit
Leaking Underground Storage Tank Section
Division of Remediation Management
Bureau of Land

BF:MD:dks\95827.WPD

Appendices: 1

cc: Environmental Contractors of Illinois, Inc.

Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
Professional Engineer Certification

RECEIVED
NOV 03 1995

A. Site Identification

IEPA Incident # (6 digit): 941954 IEPA Generator # (10 digit): 0971905252
Site Name: WAUKEGAN U.S. ARMY RESERVE CENTER
Site Address (Not a P.O. Box): 1721 N. MCAREE ROAD
City: WAUKEGAN County: LAKE

IEPA/DLPC

B. Certification

The release from the Underground Storage Tank(s) System associated with Incident Number (6 digit) 941954 at the facility described in the attached Corrective Action Completion Report dated JULY 21, 1995, has been remediated in accordance with 35 Ill. Adm. Code, Part _____ and other applicable rules and regulations. The remediation has achieved the clean-up objectives set forth by the Agency in:

Leaking Underground Storage Tank, Soil Sampling Requirements (Feb. 1993) _____
Leaking Underground Storage Tank Manual, Fall 1991 (IEPA/LPC/91-203) _____
Guidance Manual for Petroleum-Related LUST Cleanups in Illinois, Spring 1990 (IEPA/LPC/90-47) _____
Appendix B (from 35 Ill. Adm. Code Part 732) X
Site Specific Cleanup Objectives set forth by the Agency in the letter dated _____
Other Specify document _____

I certify under penalty of law that the corrective action completion report, supporting documents and all attachments were prepared under my direction or supervision or were reviewed by me. To the best of my knowledge and belief, the attached Corrective Action Completion Report, supporting documents and all attachments are true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of the fine and imprisonment for knowing violations.

Professional Engineer

P.E. Seal

Name: CHUCK HOWARD
Firm: ENVIRONMENTAL CONTRACTORS OF ILLINOIS, INC.
Address: 5290 NIMTZ ROAD
LOVES PARK, IL 61111
Phone: (815) 654-4726
Ill. Registration No.: 062-038377
License Expiration Date: 11/30/95
Signature: [Signature]
Date: 10-30-95

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 - 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/57.17). This form has been approved by the Permit Management Center.



State of Illinois

ENVIRONMENTAL PROTECTION AGENCY

Mary A. Gade, Director
217/782-6761

2200 Churchill Road, Springfield, IL 62794-9276

CERTIFIED MAIL

Z 36 375 7 668

OCT 10 1995

Department of the Army
Headquarters, 86th U.S. Army Reserve Command
Attn: Mr. Dave Jennings
7402 West Roosevelt Road
Forest Park, Illinois 60130-2587

Re: LPC #0971905252 -- Lake County
Waukegan/86th Army Reserve Command
1721 North McAree Road
LUST Incident No. 941954
LUST TECHNICAL FILE

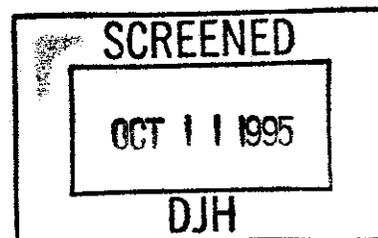
Dear Mr. Jennings:

The Illinois Environmental Protection Agency has reviewed the 45 Day Report and the Request for Site Specific Cleanup Objectives that was submitted for the above referenced LUST incident. This information was dated August 4, 1995 and was received by the Agency on August 16, 1995. The report was reviewed for the purpose of establishing site specific clean up objectives pursuant to 35 Illinois Administrative Code Section 732.408(b).

Your request for site specific clean up objectives has been reviewed and approved. However, the Agency has determined pursuant to 35 Illinois Administrative Code Section 732.410(d), that a "no further remediation" letter cannot be issued for the following reason(s):

Pursuant to 35 Illinois Administrative Code Section 732.409(b), a certification by a Licensed Professional Engineer certifying that the information presented in the applicable report is accurate and complete and corrective action has been completed in accordance with the requirements of the Illinois Environmental Protection Act and 35 Illinois Administrative Code Part 732, Subpart D, has not been submitted.

The Professional Engineer Certification Form must refer to this letter.



Page 2

Please submit a Professional Engineer Certification within sixty (60) days of date of this letter to:

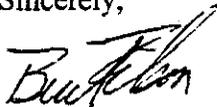
Illinois Environmental Protection Agency
Bureau of Land
Division of Remediation Management
Leaking Underground Storage Tank Section
2200 Churchill Road
Post Office Box 19276
Springfield, Illinois 62794-9276

Please include the Re: block at the beginning of this letter on all correspondence. In addition, all correspondence must be submitted in duplicate.

For purposes of appeal, this constitutes the Agency's final decision regarding the above matters. Please see Appendix 1 for an owner or operator's appeal rights.

Please contact Michael Davison at 217/782-6761 if you have any questions.

Sincerely,



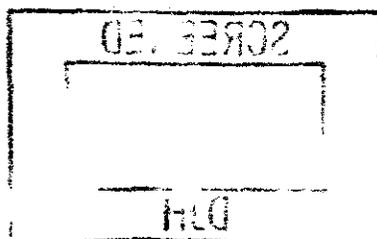
Bur Filson, Manager
State Sites Unit
Leaking Underground Storage Tank Section
Division of Remediation Management
Bureau of Land

BF:MD:dks\95827.WPD

Appendices: 1

cc: Environmental Contractors of Illinois, Inc.

bcc: ur Filson
Michael Davison
Division





State of Illinois
ENVIRONMENTAL PROTECTION AGENCY

Mary A. Gade, Director
217/782-6761

2200 Churchill Road, Springfield, IL 62794-9276

CERTIFIED MAIL
2363757629

OCT 06 1995

86th Army Reserve Command
Attention: Dave Jennings
7402 West Roosevelt Road
Forest Park, Illinois 60130-2587

Re: LPC #0971905252 -- Lake County
Waukegan/86th Army Reserve Command
1721 North Mcaree Road
LUST Incident No. 941954
LUST TECHNICAL FILE

Dear Owner/Operator:

The Illinois Environmental Protection Agency has received the 45 day and corrective action completion report (report) submitted for the above referenced incident.

In accordance with 35 Illinois Administrative Code Section 732.503(g)(2), the Agency is notifying you that the report dated August 4, 1995 and received August 16, 1995 has been selected for a full review. Additional correspondence regarding the report submitted will be issued, if necessary, within 120 days of the date the report was received.

The Agency's decision to select a report or plan does not preclude an owner or operator from continuing Site Classification and/or Corrective Action in accordance with 35 Illinois Administrative Code Part 732 at the above referenced site prior to receiving additional correspondence from the Agency pursuant to Section 57.7(e)(1) of the Illinois Environmental Protection Act. A selection notification is only intended to inform an owner or operator that a particular document has or has not been selected for a full review.

Please note this letter does not constitute approval of the above referenced report.

Should you have any questions, please contact the project manager on-call in the Leaking Underground Storage Tank Section at the above number.

Sincerely,

Douglas W. Clay, P.E., Manager
Leaking Underground Storage Tank Section
Division of Remediation Management
Bureau of Land

DWC:GP:jk\958720.WPD

bcc: Division File





State of Illinois
ENVIRONMENTAL PROTECTION AGENCY

Mary A. Gade, Director

2200 Churchill Road, Springfield, IL 62794-9276

217/782-6761

CERTIFIED MAIL

2363760092

AUG 30 1995

86th Army Reserve Command
Attn: Louise Orders
7402 West Roosevelt Rd.
Forest Park, Illinois 60130-2587

Re: LPC #0971905252 -- Lake County
Waukegan/86th Army Reserve Command
1721 North Mcaree Rd.
LUST Incident No. 941954
LUST TECHNICAL FILE

Dear Owner/Operator:

The Illinois Environmental Protection Agency has received the 45 Day and Corrective Action Completion Report (report) submitted for the above referenced incident.

In accordance with 35 Illinois Administrative Code Section 732.503(g)(2), the Agency is notifying you that the report dated August 4, 1995 and received August 16, 1995 has been selected for a full review. Additional correspondence regarding the report submitted will be issued, if necessary, within 120 days of the date the report was received.

The Agency's decision to select a report or plan does not preclude an owner or operator from continuing Site Classification and/or Corrective Action in accordance with 35 Illinois Administrative Code Part 732 at the above referenced site prior to receiving additional correspondence from the Agency pursuant to Section 57.7(e)(1) of the Illinois Environmental Protection Act. A selection notification is only intended to inform an owner or operator that a particular document has or has not been selected for a full review.

Please note this letter does not constitute approval of the above referenced report.

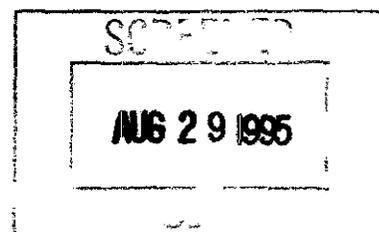
Should you have any questions, please contact the project manager on-call in the Leaking Underground Storage Tank Section at the above number.

Sincerely,

Douglas W. Clay, P.E., Manager
Leaking Underground Storage Tank Section
Division of Remediation Management
Bureau of Land

DWC:GP:rmi\9512915.WPD

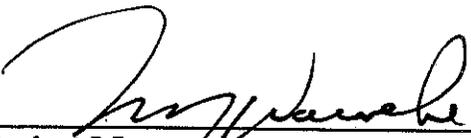
bcc: Division File

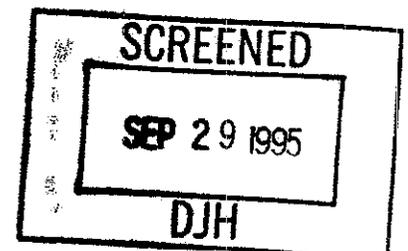


**45 DAY REPORT
LPC #0971905252 - LAKE COUNTY
U.S. ARMED FORCES RESERVE CENTER
1721 NORTH MCAREE ROAD
WAUKEGAN, ILLINOIS
LUST INCIDENT # 941954**

**PREPARED BY:
Environmental Contractors of Illinois, Inc.
5290 Nimitz Road
Loves Park, Illinois 61111**

RECEIVED
AUG 16 1995
IEPA/DLPC


Project Manager _____ Date July 27, 1995



Illinois Environmental Protection Agency Leaking Underground Storage Tank Program 45 Day Report

A. Site Identification

IEMA Incident # (6 digit): 941954 IEPA Generator # (10 digit): 0971905252
Site Name: U.S. ARMED FORCES RESERVE CENTER
Site Address (Not a P.O. Box): 1721 N. MC AREE ROAD
City: WAUKEGAN County: LAKE

B. Release Information

1. Indicate the material(s) released: #2 FUEL OIL

2. The material released was (check all that apply):

- a. Petroleum
- b. Nonpetroleum

3. Is there information included herewith (beyond what is required in the 45 Day Report) that is intended to demonstrate no further remediation to be necessary (with or without a request for Site Specific Objectives)? Yes No
SEE ATTACHMENT B.3. FOR THE REQUEST FOR SITE SPECIFIC OBJECTIVES

RECEIVED

AUG 16 1995

IEPA/DLPC

C. Early Action

1. What was the volume (in cubic yards) of backfill material and/or native soil removed? 120 c.y.
(if any backfill material and/or native soil was removed and disposed of off-site attach a legible copy of the manifest(s)).

2. Was groundwater encountered at the site? Yes No
If Yes, was any groundwater removed or discharged from the site? Yes No
If Yes, what was the volume removed from the site? _____
Include a legible copy of the manifest(s) or permits.

3. Was free product encountered? Yes No
If Yes, the owner/operator must submit a free product removal report within 45 days of reporting the release.

D. Site Information

1. Data on the nature and estimated quantity of the release.
2. Data from available sources or site investigations concerning the following factors:

- a. Surrounding populations,
- b. Water quality,
- c. Use and approximate locations of wells potentially affected by the release,
- d. Subsurface soil conditions,
- e. Climatological conditions,
- f. Land use.

F. Signatures

I certify under penalty of law that this report, supporting documents and all attachments were prepared under my direction or supervision. To the best of my knowledge and belief, this report, supporting documents and all attachments are true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Owner

Name: _____
Title: _____
Address: _____

Phone: _____
Signature: _____
Date: _____

Operator

Name: _____
Title: _____
Address: _____

Phone: _____
Signature: _____
Date: _____

Consultant

Firm: ENVIRONMENTAL CONTRACTORS OF ILLINOIS, INC.

Contact: MATT WARNEKE

Title: PROJECT MANAGER

Address: 5290 NIMTZ ROAD

LOVES PARK, ILLINOIS 61111

Phone: (815) 654-4726

Signature: *Matt Warneke*

Date: 7-27-95

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 - 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/57.17). This form has been approved by the Forms Management Center.

D. SITE INFORMATION

1. Data on the nature and estimated quantity of the release.

Upon the removal of Tank #2 (one 550 gallon UST containing #2 fuel oil) on April 27, 1995, it was apparent that a release occurred by a distinct petroleum odor and discoloration of the soil surrounding the tank. The release was a result of deterioration of the underground storage tank (UST) shell; holes were noted in the bottom of the tank following tank cleaning operations. An estimated quantity of the release could not be determined. However, based on odor, field screening, and laboratory results, the release did not appear to be major or significant. It appeared to be limited to the backfill materials surrounding the tank and some of the native clay soils beneath the UST and on the side walls.

2. Data from available sources of site investigations concerning the following factors.

a. Surrounding populations.

The Armed Forces Reserve Center is located in a primarily residential area (on the north central part of the City of Waukegan on North McAree Road between Sunset Avenue and Glen Flora Avenue). Waukegan's population is approximately 69,000. The following properties surround the Armed Forces Reserve Center:

North: Service Road, Commonwealth Edison high voltage power line easement, and residential area.

East: Clearview School and residential area.

South: Housing Urban Development (HUD) projects, Clearview Park, and residential area.

West: HUD projects, McAree Road, and residential area.

Lake Michigan is the closest water body which is located approximately 3 miles east. A small intermittent stream is located approximately 1 mile east.

b. Water Quality.

Potable water in the area of the site is derived from Lake Michigan. The City of Waukegan Water Department, Pumping and Infiltration Plant pumps the water from Lake Michigan to their plant. The water is treated and distributed throughout the City of Waukegan. The water is tested regularly to assure a potable supply.

c. Use and approximate location of wells affected by the release.

ECI requested a search of private and public potable water wells from the Illinois State Water Survey (ISWS) on May 11, 1995 for wells within Section 17, Township 45 North, Range 12 East in Lake County. The ISWS records indicate that a total of six sites have private wells. Based on a review of well logs, the wells range from shallow, hand-dug wells to wells reaching a depth of almost 200 feet. Most of the well logs were recorded in 1930. In addition, most of the wells were located within the northwest quarter of Section 17. The same quarter the Waukegan U.S. Army Reserve Center is located. The closest well to the subject property is located approximately 1,000 feet south/southwest. Two other wells are

located over 1,500 feet to the east. Based on the distance and depth of these wells, ECI has no reason to believe that the petroleum release has had an impact on them. In addition, since potable water in Waukegan is derived from Lake Michigan, no public wells are located in the area of the site.

Please see Attachment D.2.c. for ISWS records search information.

d. Subsurface soil conditions.

ECI utilized Plate 1 of the Berg Circular (C 532) entitled "Potential for Contamination of Shallow Aquifers" as a reference to assist in determining the subsurface soil conditions of the Waukegan U.S. Armed Forces Reserve Center. The subject property is located within Category E on the Plate 1 map.

Category E consists of uniform, relatively impermeable silty or clayey till or other fine-grained materials more than 50 feet thick; no sand and gravel identified. The potential for contamination is low because of low hydraulic conductivity (1×10^{-9} to 1×10^{-7} cm/sec) and good attenuation capacities. However, an aquifer may occur below a depth of 50 feet.

Information obtained from the Lake County Soil Survey indicated that the soils on site are classified as Morley silt loam. This soil is generally on the tops of morainic ridges. Many areas have not been farmed intensively because they are wooded or idle.

The most serious limitation of Morley silt loam is the moderately slow movement of water through the soil. Soil survey data indicates that Morley silt loam has a high “perched” water table between 3 and 6 feet between the months of March and May. Morley silt loams display the following chemical and physical properties:

PHYSICAL AND CHEMICAL PROPERTIES OF THE SOILS
U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

MAP SYMBOL	SOIL NAME	DEPTH (in)	CLAY (pct)	MOISTURE DENSITY (g/cm ³)	PERMEABILITY (in/hr)	AVAILABLE WATER CAP (in/in)	SOIL REACT (ph)	SHRINK SWELL Pot.	EROSION FACTOR K	EROSION FACTOR T	WIND EROD. GROUP	ORGANIC MATTER (pct)
194B	Morley	0-9	22-27	1.35-1.55	0.60-2.00	0.20-0.24	5.1-7.3	Low	.37	4-6	2.0	3.0
		9-28	30-50	1.55-1.70	0.20-0.60	0.11-0.15	5.6-7.8	Moder	.32		0.5	1.0
		28-42	27-50	1.60-1.80	0.06-0.60	0.07-0.12	6.1-8.4	Moder	.43		0.2	0.5
		42-60	27-40	1.60-1.80	0.06-0.60	0.07-0.12	6.1-8.4	Moder	.43		0.2	0.5

Based on ECI's inspection of soil samples during the collection of closure samples from the excavations, the native soil on site is consistent with Category E of the Berg Circular. All ten closure samples consisted of a dense, impermeable clay. No layers of sand or gravel were identified in either excavation. The excavation depth was 10 feet. The native soil on site is likely to resist contaminant migration due to the dense clayey soil type. A high "perched" water table was also identified. The perched water was at a depth of 4 feet.

e. Climatological conditions.

During the excavation of contaminated soil and the tank removals, the temperature was approximately 60 degrees Fahrenheit with moderate winds, partly cloudy skies, and periods of mild to heavy rainfall. Typical midwest weather consists of seasonal temperature changes.

f. Land use.

The property is currently used by the government to operate a U.S. Armed Forces Reserve Center. Approximately 10 to 20 persons are employed at the facility. The property consists of an administration building and a separate maintenance building. The site sits on approximately 3 acres of land and is surrounded by apartment buildings, a school, and vacant land. Specifically, the following properties are located adjacent to the site:

North: Service road, a Commonwealth Edison easement for high voltage electric lines, and a residential area.

East: Clearview School and a residential area.

South: Housing Urban Development (HUD) project, Clearview Park, and a residential area.

West: HUD, North McAree Road, and a residential area.

3. A discussion of what was done to measure for the presence of a release where contamination was most likely to be present at the UST site.

Following the removal of the USTs, soil samples were collected from beneath the USTs for field screening with a photoionization detector (PID) and for laboratory analysis. In addition, the soil was inspected for discoloration and odor. The soil surrounding the 550 gallon LUST had an oily appearance and exhibited a fuel odor. Field screening of a soil sample beneath the UST resulted in a PID reading of 80 ppm. OSFM Inspector Sue Dwyer confirmed the previously reported release (Incident Number 951954). Some of the petroleum contamination appeared to migrate over to the adjacent 6,000 gallon UST located south of the 550 gallon LUST.

4. Results of the free product investigations.

Following the tank removals, no indications of free product were apparent. Due to heavy periods of precipitation prior to and during tank removal activities, perched water accumulated within the excavation area. TICS pumped the wastewater into a vacuum truck for transportation and treatment at Interstate Pollution Control located in Rockford, Illinois. Once pumped,

the water did not recharge in the excavation bottom which consisted of dense clays. See Attachment E.3. for a copy of the IEPA wastewater manifest.

5. **A discussion of the action taken to prevent further release of the regulated substance into the environment.**

The contents within the UST system had been removed. The UST system and associated piping (vent, fill, and product) was removed, cleaned and properly disposed of. ECI returned to the site on May 1, 1995 to excavate approximately 120 cubic yards of LUST soil. The special waste was transported to Countryside Landfill for disposal. Ten closure samples were collected following remediation. See Attachment D.5 for copies of the lab report.

6. **A discussion of the action taken to mitigate fire and safety hazards posed by vapors or free product that has migrated from the UST excavation zone and entered subsurface structures.**

During the tank removals and excavation of contaminated soil, site control points were established for safety purposes. No eating, smoking, or drinking were allowed in the work area (exclusion zone). The use of spark producing equipment was prohibited in the work area. The tank atmosphere and the excavation were regularly monitored with a combustible gas indicator for flammable or combustible vapors.

No subsurface structures were located around the tank. The building had no basement and the nearest utilities were located on the north side of the building (opposite side). The contamination appeared to be limited to the north end of the excavation (adjacent to the building).

7. **Any other information collected while performing initial abatement measures pursuant to 35 Ill. Adm. Code Section 732.162 or 732.202(b).**

None.

E. SUPPORTING DOCUMENTATION

1. **Site and area maps.**

- a. **Site map to scale and oriented north.**

See Attachment E.1.a.

- b. **A cross section, to scale, with dimensions showing USTs and the excavation.**

See Attachment E.1.b.

- c. **An area map showing the site in relation to surrounding properties. This map should identify the facilities on the surrounding properties.**

See Attachment E.1.c.

2. UST Information.

Table 1. UST INFORMATION				
Number	Capacity	Product	Release	Removed
T1	1,500 gal.	#2 Fuel Oil	No	Yes 4-27-95
T2	550 gal.	#2 Fuel Oil	Yes 941954	Yes 4-27-95
T3	6,000 gal.	#2 Fuel Oil	No	Yes 4-27-95
T4	3,000 gal.	#2 Fuel Oil	No	Yes 4-28-95

See Attachment E.2.f. for a copy of the OSFM removal permit.

3. Provide a narrative of tank removal and cleaning operations; describe how wastes generated during the tank removal were managed, treated, and disposed.

BACKGROUND INFORMATION

Environmental Contractors of Illinois, Inc. (ECI) was originally contracted to remove five 3,000 gallon underground storage tanks (USTs) and associated piping from the U.S. Armed Forces Reserve Center located at 1721 North McAree Road, Waukegan, Illinois. ECI obtained a permit from the OSFM and conducted the removals on April 27 and 28, 1995. The tanks were located in three different areas of the Reserve Center property. The tank information provided to ECI by the Army was significantly different than the actual

sizes determined following the removals. Instead of five USTs, ECI only removed four USTs. The correct tank sizes are listed above in Section E.2., UST Information. The tanks were used to store #2 fuel oil for heating purposes. See Attachment E.2.f. for a copy of the OSFM Amended Notification for USTs form and the Certification of Removal forms.

TANK REMOVAL

A J.U.L.I.E. locate had been scheduled to mark underground utilities. ECI had mobilized a trackhoe to the site and began uncovering the USTs on April 27, 1995. Once the tanks were uncovered, TICS removed any residual product or wastewater remaining within the USTs. TICS then inerted each tank with carbon dioxide until the percent oxygen was below 5 percent. ECI then further excavated the USTs for removal. A cable was secured to each UST and they were pulled from the ground. The associated vent and product piping lines were also removed at this time. Office of the Illinois State Fire Marshal (OSFM) Inspector Sue Dwyer examined the excavation and the USTs and determined that a release of product had occurred beneath one of the USTs (the 550 gallon UST). The soil beneath the 550 gallon UST had an oily appearance and exhibited a petroleum odor. Incident number 941954 had been formerly issued by the Illinois Emergency Management Agency (IEMA) based on petroleum contamination discovered during a geoprobe investigation.

No signs of contamination were apparent following the removal of the 1,500 gallon UST and 3,000 gallon UST (Tank #1 and Tank #4). These excavations were backfilled with native soil, pea gravel, black dirt, and roadstone to match the existing grade. See Attachment E.2.f. for the Certification of Removal forms.

The contaminated excavation (from Tank #'s 2 and 3) was backfilled with contaminated backfill materials and orange fence was placed around the excavation to reduce the chance

of any type of accident or injury. ECI was scheduled to return to the site the following Monday, May 1st, to landfill dispose of contaminated soil.

TANK CLEANING AND DISPOSAL

Tank cleaning operations were conducted by Tank and Industrial Cleaning Services (TICS) of Rockford, Illinois. The tanks were inerted with carbon dioxide until the percent oxygen level was below 5 percent. TICS personnel obtained entrance into the tank, scrubbed the tank with a solution of trisodium phosphate, and triple rinsed with high pressure water. TICS pumped out and transported the rinse waters to Interstate Pollution Control (IPC) in Rockford, Illinois for wastewater treatment.

The clean tanks were then transported to Joseph Behr & Sons of Rockford to be recycled as scrap metal. An empty container certificate was issued by TICS for disposal. See Attachment E.3. for a copy of the wastewater manifests and empty container certificates.

REMEDIATION

The Department of the Army discovered and reported a release from the 550 gallon UST following a geoprobe investigation. ECI personnel mobilized to the site on January 31, 1995 in order to collect a representative soil sample from around the 550 gallon LUST. The sample was analyzed by EMT for the Countryside Landfill disposal profile parameters. The special waste forms for LUST soil were completed and submitted to Countryside.

ECI returned to the site on May 1, 1995 to excavate contaminated soil. Approximately 120 cubic yards of LUST soil (8 semi loads) was removed for landfill disposal. The special waste was transported to Countryside Landfill located at 31725 North Route 83 in Grayslake, Illinois. See Attachment C.1. for copies of the manifests.

Ten closure samples were collected following remediation. Besides a small area on the north excavation wall adjacent to the building foundation (ECI sample # 536-T2/3-NWW), no contamination was evident based on PID field screening and visual inspection. The samples were submitted to Environmental Monitoring and Technologies, Inc. (EMT) for analysis of BTEX and PNA's. The excavation was backfilled with clean fill materials (pea gravel and black dirt).

SAMPLING PROTOCOL

Soil samples were collected from the native soil below each tank. Each sample was collected using a new pair of disposable latex gloves. Soil samples were placed into 4 ounce jars with Teflon lined lids for laboratory analysis, and into Ziploc bags for field screening with an organic vapor meter (OVM) manufactured by Thermo Environmental Instruments Inc. The OVM measures organic vapors including hydrocarbons with its' 10.6 electron volt lamp. The soil samples were allowed to sit at ambient temperature for approximately 15 minutes prior to screening with the OVM. See Table 2 for a record of OVM readings.

The soil samples for laboratory analysis were labeled and placed in a cooler which maintained a temperature of four degrees Celsius. A chain-of-custody document was filled out and accompanied the sample during transport to Environmental Monitoring and Technologies, Inc. in Morton Grove, Illinois. The samples were analyzed for BTEX and PNA's.

Table 2. OVM FIELD SCREENING TABLE

SAMPLE NO.	DATE	TIME	SOIL DESCRIPTION	OVM
T2-WB	05/01/95	1:20	Dense, gray clay	2
T2-EB	05/01/95	1:25	Dense, gray clay	0
T3-WB	05/01/95	1:30	Dense, brownish gray clay	4
T3-EB	05/01/95	1:35	Dense, brownish gray clay	4
T2/3-EW	05/01/95	1:40	Dense, greenish gray clay	1
T2/3-SEW	05/01/95	1:45	Greenish, black silty clay	3
T2/3-SWW	05/01/95	1:50	Greenish, black silty clay	0
T2/3-WW	05/01/95	1:55	Dense, greenish black clay	2
T2/3-NWW	05/01/95	2:00	Dense, brownish black clay	18
T2/3-NEW	05/01/95	2:05	Dense, brownish black clay	7

ANALYTICAL RESULTS

Ten soil samples were submitted to Environmental Monitoring and Technologies, Inc. of Morton Grove, Illinois. The samples were analyzed for BTEX and polynuclear aromatic compounds (PNA's). The samples were analyzed according to U.S. EPA methods 8240A and 8310. See Attachment D.5. for copies of the laboratory results.

Two samples (T2/3-NWW and T2/3-NEW) displayed low concentrations of PNA contaminants. These samples were collected from the north wall near the building. Only one PNA compound, chrysene, exceeded the IEPA cleanup objectives outlined in Title 35 IAC, Part 732, Appendix B. Chrysene exceeded the 200 foot boundary objective of 64 ppb by approximately four times (232 ppb) in sample T2/3-NEW. No other contaminants exceeded the cleanup objectives for the 200 foot boundary. See Attachment B.3. for a request for site specific cleanup objectives.

4. PHOTOGRAPHS

See Attachment E.4.

WAUK45.DOC

**B.3. REQUEST FOR SITE SPECIFIC
CLEANUP OBJECTIVES**

**Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
Request for Site Specific Cleanup Objectives**

A. Site Identification

IEMA Incident # (6 digit): 941954 IEPA Generator # (10 digit): 097905252
Site Name: U.S. ARMED FORCES RESERVE CENTER
Site Address (Not a P.O. Box): 1721 N. McAREE ROAD
City: WAUKEGAN County: LAKE

B. Site Information

1. Is the owner/operator performing corrective action pursuant to Title XVI? Yes No
2. If the owner/operator is not performing corrective action pursuant to Title XVI, the soil type is Type A Type B
3. Was groundwater impacted at the site? Yes No
If Yes, then what is the groundwater classification at the site (Check One)?

Class I
Class II
Class III
Class IV

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4. This request for site specific objectives is due to:
- a. A release of hazardous substance.
- b. A release of specific chemical(s).
- c. A release of used oil.
- d. A release for which objectives have been established BUT DUE TO SITE-SPECIFIC FACTORS, THE OWNER OR OPERATOR IS REQUESTING THAT NO FURTHER REMEDIATION BE REQUIRED.

C. Support for Site Specific Objectives

Provide the following:

1. The media of concern (such as soil/groundwater).
2. An estimate of the amount of media remaining above cleanup objectives (soil - cubic yards; groundwater - gallons).
3. A brief description of facility operations. Include current and future activities and the degree of public access.
4. Identification of adjacent businesses or facilities. Provide a brief description of facility operations.
5. A general description of the site area (commercial, residential, etc.).
6. A brief discussion of potentially exposed populations (human and environmental) and other sensitive receptors.

Consultant

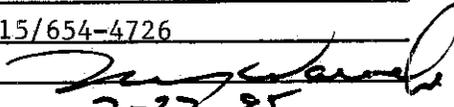
Firm: ENVIRONMENTAL CONTRACTORS OF ILLINOIS, INC.

Contact: MATT WARNEKE

Title: PROJECT MANAGER

Address: 5290 NIMTZ ROAD
LOVES PARK, IL 61111

Phone: 815/654-4726

Signature: 

Date: 7-27-95

The Agency is authorized to require this information under Section 4 and Title XVI of the Environmental Protection Act (415 ILCS 5/4, 5/57 - 57.17). Failure to disclose this information may result in a civil penalty of not to exceed \$50,000.00 for the violation and an additional civil penalty of not to exceed \$10,000.00 for each day during which the violation continues (415 ILCS 5/42). Any person who knowingly makes a false material statement or representation in any label, manifest, record, report, permit, or license, or other document filed, maintained or used for the purpose of compliance with Title XVI commits a Class 4 felony. Any second or subsequent offense after conviction hereunder is a Class 3 felony (415 ILCS 5/57.17). This form has been approved by the Forms Management Center.

REQUEST FOR SITE SPECIFIC CLEANUP OBJECTIVES

C. Support for Site Specific Objectives

1. The media of concern (such as soil/groundwater).

Soil.

2. An estimate of the amount of media remaining above cleanup objectives (soil - cubic yards).

Based on the area north of the 550 gallon fuel oil UST (approximately 15 feet long excavation wall, 5 feet wide from the top of the tank to the excavation bottom, and a distance of 2 feet from the excavation wall to the building), ECI estimates that approximately 5 cubic yards of contamination remain above cleanup objectives. We feel this estimate is conservative based on the 15 feet x 5 feet dimensions and the PNA concentration range from sample #T2/3-NWW to sample # T2/3-NEW.

3. A brief description of facility operations. Include current and future activities and the degree of public access.

The property is currently used by the government to operate a U.S. Armed Forces Reserve Center. Approximately 10 to 20 persons are employed at the facility. The property consists of an administration building and a separate maintenance building. The facility is limited to access by the public. It is surrounded by a chain link fence which is secured with a locked gate after

working hours and weekends. The site sits on approximately 3 acres of land and is surrounded by HUD projects, a school, and vacant land.

4. Identification of adjacent businesses or facilities. Provide a brief description of facility operations.

The site is located in a primarily residential area of Waukegan. Specifically, the following properties are located adjacent to the site:

North: Service road, a Commonwealth Edison easement for high voltage electric lines, and a residential area.

East: Clearview School and a residential area.

South: Housing Urban Development (HUD) project, Clearview Park, and a residential area.

West: HUD, North McAree Road, and a residential area.

See Attachment E.1.c. of the 45 Day Report for a map of surrounding properties.

5. A general description of the site area (commercial, residential, etc.).

The Armed Forces Reserve Center is located in a primarily residential area on the north central part of the City of Waukegan on North McAree Road between Sunset Avenue and Glen Flora Avenue. Waukegan's population is approximately 69,000.

Lake Michigan is the closest water body which is located approximately 3 miles east. A small intermittent stream is located approximately 1 mile east.

6. A brief discussion of potentially exposed populations (human and environmental) and other sensitive receptors.

The contaminants, existing at a relative depth of 2 to 7 feet below the ground surface, do not pose a direct threat to human or environmental populations. The LUST site does not pose any risks to other sensitive receptors such as streams, creeks, waterways, ponds, lakes, or public/private wells. The property borders are approximately 100 feet north, 200 feet east, 200 feet south, and 175 feet west. It is limited to public access by a chain link fence. The nearest private well is approximately 1,000 feet south of the site. Only five other private wells were listed in ISWS records for Section 17. Potable water is provided to this area from Lake Michigan which is 3 miles to the east.

7. A brief summary of site geology/hydrogeology. Include depth to groundwater, groundwater flow direction, native soil types, nearby surface waters, nearby potable wells.

ECI utilized Plate 1 of the Berg Circular (C 532) entitled "Potential for Contamination of Shallow Aquifers" as a reference to assist in determining the subsurface soil conditions of the Waukegan U.S. Armed Forces Reserve Center. The subject property is located within Category E on the Plate 1 map.

Category E consists of uniform, relatively impermeable silty or clayey till or other fine-grained materials more than 50 feet thick; no sand and gravel identified. The potential for contamination is low because of low hydraulic

conductivity (1×10^{-9} to 1×10^{-7} cm/sec) and good attenuation capacities. However, an aquifer may occur below a depth of 50 feet.

Information obtained from the Lake County Soil Survey indicated that the soils on site are classified as Morley silt loam. This soil is generally on the tops of morainic ridges. Many areas have not been farmed intensively because they are wooded or idle.

The most serious limitation of Morley silt loam is the moderately slow movement of water through the soil. Soil survey data indicates that Morley silt loam has a high "perched" water table between 3 and 6 feet between the months of March and May.

Based on ECI's inspection of soil samples during the collection of closure samples from both excavations, the native soil on site is consistent with Category E of the Berg Circular. All ten closure samples consisted of a dense, impermeable clay. No layers of sand or gravel were identified in either excavation. The excavation depth was 10 feet. The native soil on site is likely to resist contaminant migration due to the dense clayey soil type. A high perched water table was also identified. The perched water was at a depth of 4 feet. Groundwater depth is estimated at 25 feet and groundwater flow direction is estimated to be east/southeast.

8. A brief discussion of potential preferential pathways (i.e. utilities) for migration of contamination.

No utility or underground migration pathways exist in the immediate area within or surrounding the LUST excavation. The gas, electric, and telephone

services all come off the access road located north of the property. Storm and sanitary lines are scattered over the site. No lines are located in the area of the LUST excavation.

9. Identification of risks or hazards presented by leaving contamination in place and provide options or recommendations for minimizing these risks or hazards.

Taking the physical/chemical properties of #2 fuel oil into consideration, the risk of a fire or explosion within the small area of contamination remaining is extremely low. The number one hazard or risk of leaving contamination in place is the potential for groundwater contamination (the toxic properties of the carcinogenic PNA compounds). However, taking the following factors into consideration significantly reduces the groundwater impact potential.

ECI utilized Plate 1 of the Berg Circular (C 532) entitled "Potential for Contamination of Shallow Aquifers" as a reference to assist in determining the subsurface soil conditions of the Waukegan U.S. Armed Forces Reserve Center. The subject property is located within Category E on the Plate 1 map.

Category E consists of uniform, relatively impermeable silty or clayey till or other fine-grained materials more than 50 feet thick; no sand and gravel identified. The potential for contamination is low because of low hydraulic conductivity (1×10^{-9} to 1×10^{-7} cm/sec) and good attenuation capacities.

Based on ECI's inspection of soil samples during the collection of closure samples from both excavations, the native soil on site is consistent with Category E of the Berg Circular. All ten closure samples consisted of a

dense, impermeable clay. No layers of sand or gravel were identified in either excavation. The excavation depth was 10 feet. The native soil on site is likely to resist contaminant migration due to the dense clayey soil type.

Groundwater depth is estimated at 25 feet and flow direction is estimated to the southeast/east. The closest surface water body is an intermittent creek located approximately 1 mile east followed by Lake Michigan which is located 3 miles east. Potable water for the area is obtained from treated Lake Michigan water.

The PNA contaminants are not currently in contact with groundwater. The sample in which they were detected was collected at a depth of 4 feet below the ground surface on the north wall of the excavation. All excavation bottom samples did not have any hits.

The ISWS had records of six private wells in Section 17; the closest well is 1,000 feet to the south.

ECI offers no recommendations for minimizing risks or hazards because the risks or hazards do not bear much of a threat to human or environmental populations. Approximately 120 cubic yards of contaminated soil has been removed and approximately 5 cubic yards remain at low levels near the building foundation. ECI recommends no further action.

10. **If the site will be paved over, indicate the type and depth of pavement (asphalt, concrete).**

The site will not be paved over. The former tank systems were located in a grassy area on the south side of the building. The tank excavation was backfilled with pea gravel and black dirt, then re-seeded.

11. **Provide technical justification for this request. Include a discussion for the potential use of alternate technologies to reduce contaminant concentrations.**

The north wall of the LUST excavation is located approximately 2 feet from the U.S. Armed Forces Reserve Building. The government building itself is worth well over \$100,000.00. Further excavation of the north wall may result in structural damage to the integrity of the building.

The PNA contaminant chrysene is the only indicator contaminant which has exceeded IEPA cleanup objectives outlined in Title 35 IAC, Part 732, Appendix B. Chrysene exceeds the 200 foot cleanup objective of 64 ppb by approximately four times (it was detected at 232 ppb in sample # T2/3-NEW). No other contaminants exceeded the IEPA objectives at the 200 foot boundary limit in any other closure samples.

Alternate cleanup technologies would be limited to in-situ methodologies due to the proximity of the building to the excavation hole and the area of contamination remaining. Potential in-situ technologies are bioremediation and passive or active vapor extraction. However, due to the dense clayey soil type on site, these treatment technologies would not be effective. In addition, the costs to design and implement such a system would not be cost effective

when the estimated quantity of contamination remaining (5 cubic yards) is considered.

Taking all of these factors into consideration, we recommend that the low levels of PNA contaminants remain in place. We seek the Agency's approval for site specific cleanup objectives for LUST Incident # 941954. If approved, ECI will forward a P.E. Certification form to the Agency for this LUST incident.

12. Maps to scale and oriented north:

- a. Topographic map. Indicate township, section and range. Identify all public wells within 3,000 feet and private wells within 500 feet of the site.**

See Attachment C.12.a. for a topographic map. No public wells are located within 3,000 feet and no private wells are located within 500 feet of the site.

b. Site map showing:

- (i) The contaminant plume in soil or groundwater,**
- (ii) All underground utilities which may serve as pathways for migration of contaminants (water, gas, electrical, etc.),**
- (iii) Nearby structures,**
- (iv) Property boundaries,**

- (v) Sampling locations,
- (vi) Monitoring well locations (if present)
- (vii) Soil boring locations (if present).

See Attachment E.1.a. and E.1.b. of the 45 Day Report.

- 13. Analytical summaries. Present in tabular form showing the concentration of contaminants in soil and/or groundwater.**

See Attachment D.5. of the 45 Day Report.

- 14. A discussion on the presence or absence of groundwater in contact with contaminated soil and/or the presence or absence of free product.**

No free product was present during the tank removals or the excavation of contaminated soil.

No groundwater was present during the tank removals or the excavation of contaminated soil. Perched water was encountered during the tank removals and LUST soil excavation. Periods of heavy precipitation in the spring of 1995, including the day of the tank removals, allowed the rainwater to become trapped between the impermeable clayey excavation floor beneath the USTs and surficial topsoil. This "perched water" was discovered during the excavation of the tank systems. Following the removal of the USTs, the perched water in the bottom of the excavation was pumped by TICS into their vacuum truck. No recharge of water occurred within the excavation. TICS properly disposed of the wastewater at Interstate Pollution Control located in Rockford, Illinois. See Attachment E.3. for manifest copies.

C.1. MANIFESTS

5

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of		Information in the shaded areas is not required by Federal law, but is required by Illinois law.									
3. Generator's Name and Mailing Address U.S. ARMED FORCES RESERVE CENTER 1721 N. McAREE ROAD WAUKEGAN, IL 60085-1499						Location If Different				A. Illinois Manifest Document Number IL 6325118		FEE PAID IF APPLICABLE					
4. 24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* 815/654-4726						B. Illinois Generator's ID 09711905252		C. Illinois Transporter's ID 08711		D. (414) 279-6806		Transporter's Phone					
5. Transporter 1 Company Name BASS TRUCKING						6. US EPA ID Number		E. Illinois Transporter's ID		F. ()		Transporter's Phone					
7. Transporter 2 Company Name						8. US EPA ID Number		G. Illinois Facility's ID 0970250003		H. Facility's Phone (708) 223-2722							
9. Designated Facility Name and Site Address ARF LANDFILL CORP. / (C) 206 / 500E / 1000111 / 31725 N. RTE. 83 GRAYSLAKE, IL 60030						10. US EPA ID Number		11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.	
a. NON HAZARDOUS, NON REGULATED SOIL BY D.O.T.						0.01		D T		0.00		30 Y		XX		EPA HW Number Authorization Number 070251	
b. NON HAZARDOUS NON REGULATED SOIL BY D.O.T.														XX		EPA HW Number Authorization Number	
c. NON HAZARDOUS NON REGULATED SOIL BY D.O.T.														XX		EPA HW Number Authorization Number	
d. NON HAZARDOUS NON REGULATED SOIL BY D.O.T.														XX		EPA HW Number Authorization Number	
J. Additional Description for Materials Listed Above LUST SOIL (INCIDENT #941954)						K. Handling Codes for Wastes Listed Above In Item #14 G = Gallons Y = Cubic Yards											
15. Special Handling Instructions and Additional Information 1 - 41 1548 / 200 (D.O.T. 10.5)																	
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		Signature		Date Month Day Year							
17. Transporter 1 Acknowledgement of Receipt of Materials						Printed/Typed Name JAMES FRY		Signature		Date Month Day Year 15 11 95							
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 this manifest except as noted in item 19.						Printed/Typed Name		Signature		Date Month Day Year							

GENERATOR

TRANSPORTER

FACILITY

In case of a spill call the Illinois Office of Emergency Response at 217 / 782-7860 and the National Response Center at 800 / 424-8802 or 202 / 426-2675.

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Falsification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

PLEASE TYPE

(Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1 Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of		Information in the shaded areas is not required by Federal law, but is required by Illinois law.						
3. Generator's Name and Mailing Address U.S. ARMED FORCES RESERVE CENTER 1721 N. McAREE ROAD WAUKEGAN, IL 60085-1499						Location if Different				A. Illinois Manifest Document Number IL 6325119 FEE PAID IF APPLICABLE				
4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS*						815/654-4726				B. Illinois Generator's ID 0971905252				
5. Transporter 1 Company Name BASS TRUCKING				6. US EPA ID Number		C. Illinois Transporter's ID 0871		D. (414) 279-6806 Transporter's Phone						
7. Transporter 2 Company Name				8. US EPA ID Number		E. Illinois Transporter's ID		F. Transporter's Phone						
9. Designated Facility Name and Site/Address ARF LANDFILL CORP / COMMUNAL SITE 2 NORTH 11 31725 N. RTE. 83 GRAYSLAKE, IL 60030						10. US EPA ID Number		G. Illinois Facility's ID 0970250003		H. Facility's Phone (708) 223-2722				
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol				
a. NON HAZARDOUS, NON REGULATED SOIL BY D.O.T.						0 0 1 D T 0 0 0 1 5 2		45		EPA HW Number XX N/A				
b.										Authorization Number 070261				
c.										EPA HW Number XX				
d.										Authorization Number				
J. Additional Description for Materials Listed Above LUST SOIL (INCIDENT #941954)						K. Handling Codes for Wastes Listed Above In Item #14 G=Gallons Y=Cubic Yards								
15. Special Handling Instructions and Additional Information <i>1st Load 15 Yds / 2nd Load 15 Yds / 3rd Load 15 Yds</i>														
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						Signature			Date					
17. Transporter 1 Acknowledgement of Receipt of Materials						Printed/Typed Name William E. Kemp			Signature <i>[Signature]</i>			Date 05/01/95		
18. Transporter 2 Acknowledgement of Receipt of Materials						Printed/Typed Name			Signature			Date		
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 SHARON KONOSIAN						Signature <i>[Signature]</i>			Date 5/1/95					

GENERATOR

TRANSPORTER

FACILITY

In case of a spill call the Illinois Office of Emergency Response at 217 / 782-7860 and the National Response Center at 800 / 424-8802 or 202 / 426-2675.

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Falsification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

PLEASE TYPE

(Form designed for use on elite (12 pitch) typewriter.)

Form Approved. OMB No. 2050-0039, Expires 9-30-94

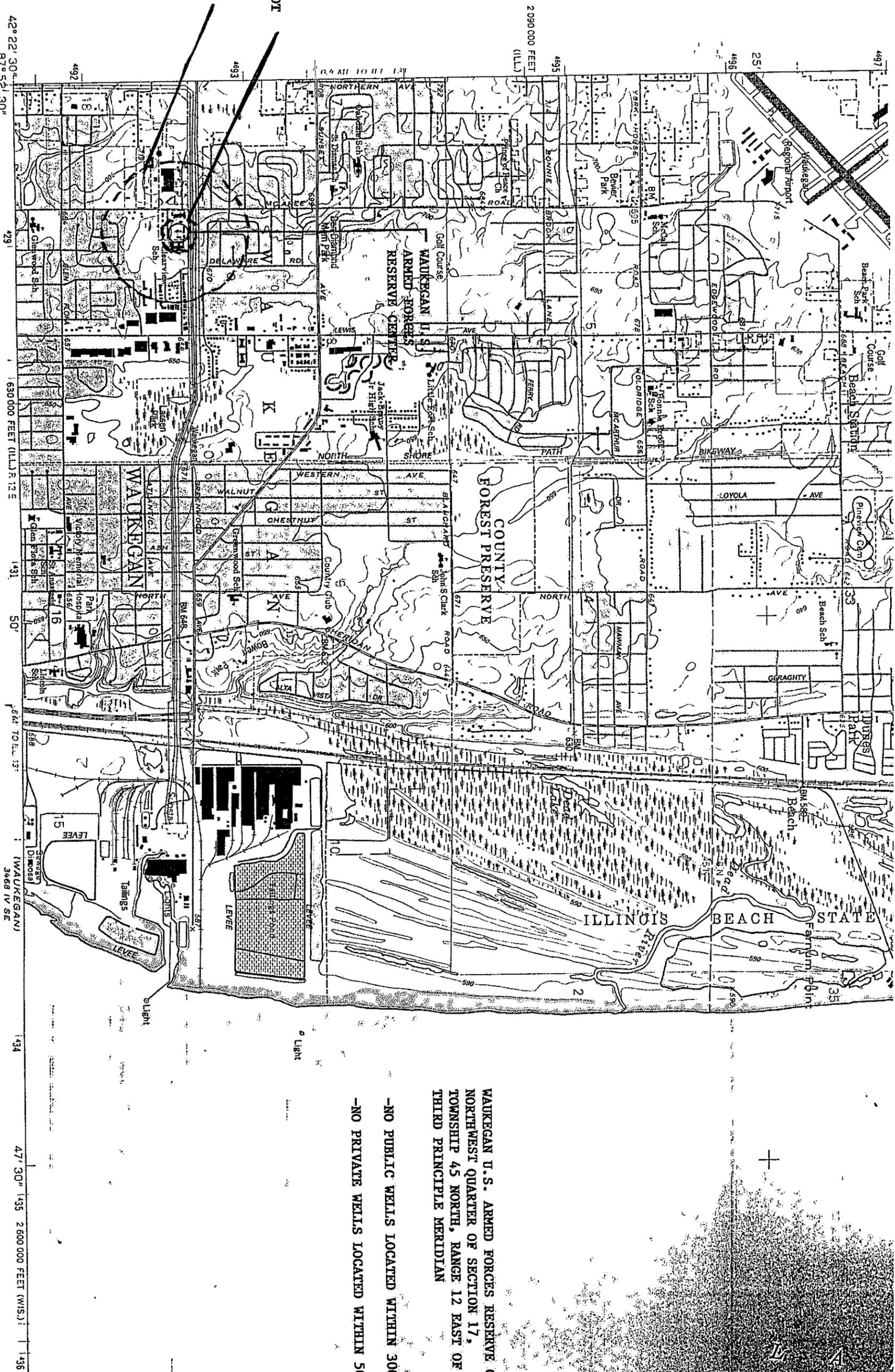
UNIFORM HAZARDOUS WASTE MANIFEST		1 Generator's US EPA ID No.		Manifest Document No.	2. Page 1 of	Information in the shaded areas is not required by Federal law, but is required by Illinois law.	
3. Generator's Name and Mailing Address U.S. ARMED FORCES RESERVE CENTER 1721 N. McAREE ROAD HAWEGAN, IL 60085-1499				Location If Different		A. Illinois Manifest Document Number IL 6325120 FEE PAID IF APPLICABLE	
4. 24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* 815/654-4726				6. US EPA ID Number		B. Illinois Generator's ID 0 9 7 1 1 9 10 15 12 15 12	
5. Transporter 1 Company Name BASS TRUCKING				8. US EPA ID Number		C. Illinois Transporter's ID 10 18 17 11	
7. Transporter 2 Company Name				8. US EPA ID Number		D. (414) 279-6806 Transporter's Phone	
9. Designated Facility Name and Site Address ARF LANDFILL CORP. / County side Landfill 31725 N. RTE. 83 GRAYSLAKE, IL 60030				10. US EPA ID Number		E. Illinois Transporter's ID	
						F. () Transporter's Phone	
						G. Illinois Facility's ID 0 9 7 0 2 5 0 0 0 3	
						H. Facility's Phone (708) 223-2722	
11 US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)					12. Containers No.	13. Total Quantity	14. Unit Wt/Vol
a. NON HAZARDOUS, NON REGULATED SOIL BY D.O.T.					0 0 1 D T 0 0 0	45 Y	EPA HW Number 0 7 0 2 6 1 Authorization Number
b. "					0 0 1 D T 0 0 0	Y	EPA HW Number 0 7 0 2 6 1 Authorization Number
c. "					0 0 1 D T 0 0 0	Y	EPA HW Number 0 7 0 2 6 1 Authorization Number
d. "					0 0 1 D T 0 0 0	Y	EPA HW Number 0 7 0 2 6 1 Authorization Number
J. Additional Description for Materials Listed Above LUST SOIL (INCIDENT #941954)					K. Handling Codes for Wastes Listed Above In Item #14 G = Gallons Y = Cubic Yards		
15. Special Handling Instructions and Additional Information 15 1st load / 15 2nd load / 15 2nd load							
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				Signature		Date	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Date	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Date	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest as noted in item 19.							
Printed/Typed Name				Signature		Date	
Printed/Typed Name				Signature		Date	

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 117 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Falsification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 5. GENERATOR MAIL TO IEPA (RCRA AND PCB WASTES)

In case of a spill call the Illinois Office of Emergency Response at 217/782-7860 and the National Response Center at 800/424-8802 or 202/426-2675.

C.12.a. TOPOGRAPHIC MAP



D.2.c. ISWS RECORDS



Hydrology Division

2204 Griffith Drive
Champaign, Illinois 61820-7495
Telephone (217) 333-4300
Telefax (217) 333-6540

May 18, 1995

Mr. Matt Warneke
Environmental Contractors of Illinois
5290 Nimpz Road
Loves Park, IL 61111

Dear Mr. Warneke:

As you requested during our telephone conversation on May 11, we are enclosing the available water well records from our files for Section 17 of Township 45N., Range 12E., in Lake County.

The invoice accompanying this request covers the \$10.00 paper document fee plus \$0.10 per page for 9 pages, totalling \$10.90.

If you have any questions or if we can be of further assistance, please call.

Sincerely,

Brenda Hughes
Technical Assistant
Office of Ground-Water Information
Phone: (217) 333-7223

psh

Enclosures

WW 89-3-0023

WATER WELL SEALING FORM

Lake County Health Department
Division of Environmental Health

171 Grand Avenue
Lakeview, IL 60085
(312) 360-6740

121 E. Grand Avenue
Lake Villa, IL 60046
(312) 356-6222

118 S. Main Street
Wauconda, IL 60084
(312) 526-1125

This form shall be submitted to the Lake County Health Department at the time of the sealing of potable wells, boring or monitoring wells. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Water Well Construction Code.

1. Owner of Property Cheryl Pfeil 1926 Hebron Ill. 60099
Name Address City Zip

2. Well Location: 1926 Hebron Ill. Lake
Street City County

General Description: Section 17, Township 45, Range 12 P.I. #: 04-17-418-027

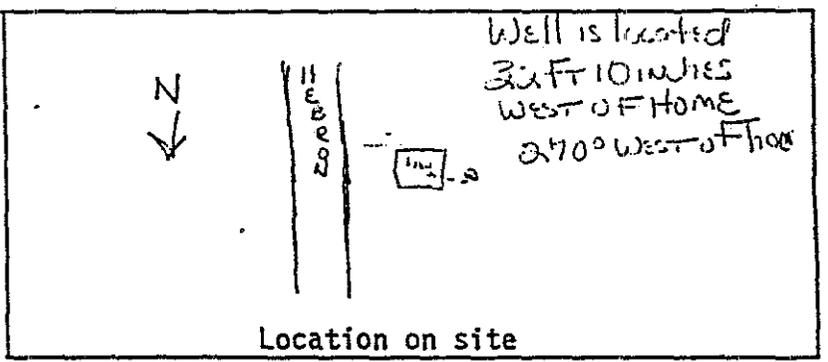
4. Drilling Permit No. (and date, if known) Unable to Verify

5. Type of Well: Drilled Driven Dug Other

6. Total Depth 64 Ft Static Level 25 Ft Diameter (inches) 5

7. Formation clear of obstruction? Yes No Depth _____

8. DETAILS OF PLUGGING:
From 64 To 54 feet
Kind of Plug Chromic Pea Gravel
From 54 To 3 feet
Kind of plug 3/4" H.I.P. Plug
From _____ To _____ feet
Kind of plug _____
From _____ To _____ feet



9. CASING RECORD
Upper 3 feet of casing removed? Yes No

If well casing consists of brick, stone, concrete blocks, porous tile, or other porous material, casing was removed to a depth of 10 feet below the surface. Yes No

10. Date well was Sealed: 11 29 89
Month Day Year

11. Licensed water well driller or other person approved by the Department performing well sealing:

Harvey Water Well [Signature]
Name (PRINT) SIGNATURE
12199 W. 23rd St. Ill. 60099
Address City State Zip
102-000-7943
License Number

SEALING OF WELL OBSERVED BY [Signature] Lake County Health Department
signature Division of Environmental Health

STATE WATER SURVEY WELL DATA

Date _____

Recorder _____

Authority _____

Owner H. Bidinger City Hankegan Twp. County _____

When drilled _____ Contractor _____ Address _____

Location (give location from section corner if possible) _____

1/4 mile N. or 430' N. of X.E. Cor. of NW 1/4 sec 17 - T45N - R12E

Elevation top of well 1119.0 664' Depth _____

Log Water in well for weather test sent to Mr. Bidinger
from deep there about 100 feet

Casing record _____

Size hole _____

Were drill cuttings saved? _____ Were they sent to State Geological Survey? _____ Distance to water when not pumping _____. After pumping at _____ gpm. for _____ hours. Reference point for above measurements _____

Type of pump _____ Distance to cylinder _____

Length of suction pipe below cylinder _____

Length stroke _____ Speed _____ Hours used per day _____

Type of power _____

Can following be measured: Water level not pumping _____ pumping _____

Discharge _____ Influence on other wells _____

Temperature of water _____ Were water samples collected _____

Date _____ Analysis number _____ Effect of water on meters, hot water coils _____

Cost of well _____

24

STATE WATER SURVEY WELL DATA

Date 10/21/30

Recorder W. J. Urber

Authority Alfred Asma

Owner Alfred Asma City R. 1 Stankogan County Lake

When drilled _____ Contractor T. H. Ferguson Address Levin

Location (give location from section corner if possible) _____

100' E., 100' N. of S.W. cor Sec 17-45-12 (N.E. cor Grand Ave) and Mc Gree Rd

Elevation top of well USGS Map 702 Depth 196'-197'

Log shot 189-195' from 6' well

Soft. Slight iron. Turned blue after getting in bottom. left black

Casing record deposit in bottom

Size hole _____

Were drill cuttings saved? Were they sent to State Geological Survey? Distance to water when not pumping _____. After pumping at ____ gpm. for ____ hours. Reference point for above measurements _____

Type of pump hand pump Distance to cylinder _____

Length of suction pipe below cylinder _____

Length stroke _____ Speed _____ Hours used per day _____

Type of power _____

Can following be measured: Water level not pumping pumping

Discharge 3 gpm Influence on other wells _____

Temperature of water _____ Were water samples collected

Date _____ Analysis number 67763 Effect of water on meters, hot water coils _____

Cost of well _____

Sulfur

✓

November 19, 1930

Mr. Alfred Asma,
Route 1,
Grand Avenue & McAree Road,
Waukegan, Illinois

My dear Mr. Asma:

In accordance with my promise at the time I gathered the sample of water from your well, I am enclosing herewith a report on the analysis.

This report indicates that the water is rather high in iron and is likely to produce stains in white enamel fixtures. We have found that a concentration of iron above two tenths parts per million is likely to give these stains and this water is eight times that.

It is altogether possible that some of this iron may come from the pipes in the well, as I did not take time to pump the well for thirty or forty minutes as would have been necessary to have cleared the well pipe from all loosely attached iron. The hardness is very low indeed, it being only one-fifth of the hardness of Lake Michigan water.

The amount of sodium carbonate is somewhat higher than is usually desired but, at that, I doubt if it gives an unpleasant taste to the water. Altogether with the exception of the iron content you have a very remarkable well.

Very truly yours,

Winfred D. Gerber, Engineer
STATE WATER SURVEY DIVISION

WDG/fb

24

LKE 45N12E-17.8d

November 10, 1930

BOILER WATER ANALYSIS

Sample of water collected October 21, 1930, by W.D. Gerber from a well on the place of Alfred Asua, N.E. corner Grand Avenue and McArae Road, 100'E. and 100'W. of the S.W. corner of Sec. 17-T.45-R.12, (Waukegan Twp., Lake County. Depth of well 196

LABORATORY NO. 67763

Determinations made

Hypothetical Combinations

		Pts. per million			Pts. per million	Grs. per gallon
Iron	Fe	1.6	Sodium Chloride	NaCl	28.1	1.64
Manganese	Mn	0.	Sodium Sulfate	Na ₂ SO ₄	53.2	3.10
Silica	SiO ₂	9.	Sodium Carbonate	Na ₂ CO ₃	152.2	8.87
Turbidity		30.	Ammon'um Carbonate	(NH ₄) ₂ CO ₃	0.5	.03
Calcium	Ca	3.0	Magnesi'um Carbonate	MgCO ₃	15.6	.91
Magnesium	Mg	4.5	Calcium Carbonate	CaCO ₃	7.5	.44
Ammonium	NH ₄	0.2	Iron Oxide	Fe ₂ O ₃	2.3	.13
Sodium	Na	94.4	Manganese Oxide	MnO	0.0	.00
Sulfate	SO ₄	36.0	Silica	SiO ₂	3.0	.153
Nitrate	NO ₃	0.0	Total		288.4	15.64
Chloride	Cl	17.0				
Alkalinity as CaCO ₃						
Phenolphthalein		10.0				
Methyl Orange		170.0				
Residue		268.				
Total Hardness		26.				

STATE WATER SURVEY DIVISION

E.L. Pearson, Chemist

STATE WATER SURVEY WELL DATA

Date Oct 24 1930

Recorder W. S. Fisher

Authority Wm. Patcher

Fair Oaks Farm

Owner F. Patcher City Hankesau County Lake

When drilled _____ Contractor _____ Address _____

Location (give location from section corner if possible) _____

300' E & 500' N - 4th Cor N. St 14 Dec 17 T46N - R12E

Elevation top of well 11 ft 8 in Depth 3 shallow

Log Hard water One was dry at date of call -

Casing record _____

Size hole _____

Were drill cuttings saved? Were they sent to State Geological Survey? Distance to water when not pumping _____. After pumping at ____ gpm. for ____ hours. Reference point for above measurements _____

Type of pump _____ Distance to cylinder _____

Length of suction pipe below cylinder _____

Length stroke _____ Speed _____ Hours used per day _____

Type of power _____

Can following be measured: Water level not pumping pumping

Discharge _____ Influence on other wells _____

Temperature of water _____ Were water samples collected

Date _____ Analysis number _____ Effect of water on meters, hot water coils _____

Cost of well _____

33

STATE WATER SURVEY WELL DATA

Date Oct 24 1930

Recorder H. S. Gerber

Authority Ausherman
W. S. Doyerman

Owner Doverian City Waukegan County Lake

When drilled _____ Contractor Ausherman Address Linn

Location (give location from section corner if possible) _____

1000'S - 100'E NW Cor Sec. 17 T 45 N - R 12 E

Elevation top of well 11.9 main bank Depth 198'

Log 112' to Rock Good water 10' sulfur

Casing record _____

Size hole _____

Were drill cuttings saved? Were they sent to State Geological Survey? Distance to water when not pumping _____. After pumping at _____ gpm. for _____ hours. Reference point for above measurements _____

Type of pump _____ Distance to cylinder _____

Length of suction pipe below cylinder _____

Length stroke _____ Speed _____ Hours used per day _____

Type of power _____

Can following be measured: Water level not pumping pumping

Discharge _____ Influence on other wells _____

Temperature of water _____ Were water samples collected

Date _____ Analysis number _____ Effect of water on meters, hot water coils _____

Cost of well _____

STATE WATER SURVEY WELL DATA

Date Oct 24 1930

Recorder H. S. Gerber

Authority _____

Baird & Harner
Owner _____
near Anna B. Lukes

City Hankogan Iowa County Lake

When drilled _____ Contractor _____ Address _____

Location (give location from section corner if possible) _____

300' S. & 500' W. of N.E. Cor. of NW 1/4 Dec 17 T45N - R12E.

Elevation top of well 11.9 ft. Mon. 660. Depth shallow dug.

Log Dug well into dug

Casing record _____

Size hole _____

Were drill cuttings saved? Were they sent to State Geological Survey? Distance to water when not pumping _____. After pumping at ____ gpm. for ____ hours. Reference point for above measurements _____

Type of pump _____ Distance to cylinder _____

Length of suction pipe below cylinder _____

Length stroke _____ Speed _____ Hours used per day _____

Type of power _____

Can following be measured: Water level not pumping pumping

Discharge _____ Influence on other wells _____

Temperature of water _____ Were water samples collected

Date _____ Analysis number _____ Effect of water on meters, hot water coils _____

Cost of well _____

D.5. LABORATORY REPORT

**Illinois Environmental Protection Agency
Leaking Underground Storage Tank Program
Laboratory Certification for Chemical Analysis**

A. Site Identification

IEMA Incident # (6 digit): 941954 IEPA Generator # (10 digit): 0971905252
Site Name: U.S. ARMED FORCES RESERVE CENTER
Site Address (Not a P.O. Box): 1721 N. MCAREE ROAD
City: WAUKEGAN County: LAKE

B. Sample Collector

I certify that:

1. appropriate sampling equipment/methods were utilized to obtain representative samples.
2. chain of custody procedures were followed in the field.
3. sample integrity was maintained by proper preservation.
4. all samples were properly labeled.

Jugw
(initial)

Jugw
(initial)

Jugw
(initial)

Jugw
(initial)

C. Laboratory Personnel

I certify that:

1. proper chain of custody procedures were followed as documented on the chain of custody forms. **IEPA**
2. sample integrity was maintained by proper preservation.
3. all samples were properly labeled.
4. quality assurance/quality control procedures were established and carried out.
5. sample holding times were not exceeded.
6. SW-846 Analytical Laboratory Procedure (USEPA) methods were used for the analyses.

**RECEIVED
AUG 16 1995**

BRB
(initial)

BRB
(initial)

BRB
(initial)

BRB
(initial)

BRB
(initial)

BRB
(initial)

D. Signatures

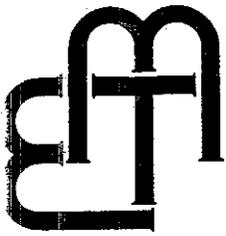
I hereby affirm that all information contained in this form is true and accurate to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sample Collector

Name: Matt Urbaneke
Title: Project Manager
Company: Environmental Contractors of IL
Address: 290 Nantz Rd.
Cross Lark, IL 61111
Phone: 815/654-4726
Signature: [Signature]
Date: 5-24-95

Laboratory Representative

Name: BEATA R. BUJAK
Title: TECHNICAL SERVICES REP.
Company: EMT
Address: 8100 N. AUSTIN
MORTON GROVE IL 60053
Phone: 708.967.6666
Signature: [Signature]
Date: 6/14/95



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203
708/967-6666
FAX. 708/967-6735

LABORATORY REPORT

121676

Environmental Contractors of IL, Inc.
5290 Nimitz Road
Loves Park, IL 61111

Project No.: 536
Project Name: USAFRC - Waukegan
Sample Description: Soil, 536-T2-WB
Sample No.: 17593

Report Date: 5/4/95
Sample Received: 5/1/95

<u>Reportable Compound</u>	<u>Concentration Found IN</u>		<u>ADLS Soil</u>
	<u>Sample</u>	<u>Blank</u>	
<u>PNA'S and Naphthalene</u>	<u>ppb</u>	<u>ppb</u>	<u>ppb</u>
1. Naphthalene	<660	<0.5	660
2. Acenaphthene	<1200	<0.5	1200
3. Anthracene	<660	<0.5	660
4. Fluoranthene	<660	<0.5	660
5. Fluorene	<140	<0.2	140
6. Pyrene	<180	<0.4	180
Carcinogenic PNAs (Total)			
7. Benzo(a)anthracene	<8.7	<0.13	8.7
8. Benzo(a)pyrene	<15	<0.23	15
9. Benzo(b)fluoranthene	<11	<0.18	11
10. Benzo(k)fluoranthene	<11	<0.17	11
11. Chrysene	<100	<0.2	100
12. Dibenzo(a,h)anthracene	<20	<0.3	20
13. Indeno(1,2,3,-c,d)pyrene	<29	<0.43	29
Non-Carcinogenic PNAs (Total)			
14. Acenaphthylene	<660	<0.3	660
15. Benzo(g,h,i)perylene	<51	<0.76	51
16. Phenanthrene	<660	<0.2	660

All results expressed as ppb unless otherwise indicated.

Analyses performed using EPA method 8270 in accordance with SW 846, Third Edition.

The contents of this report apply only to the sample analyzed. No duplication of this report is allowed except in its entirety.

Leah E. Zehner

LABORATORY DIRECTOR



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8100 North Austin Avenue
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708/967-6666
FAX: 708/967-6735

LABORATORY REPORT

121676-A

Environmental Contractors of IL, Inc.
5290 Nimitz Road
Loves Park, IL 61111

Project No.: 536
Project Name: USAFRC - Waukegan
Sample Description: Soil, 536-T2-WB
Sample No.: 17593

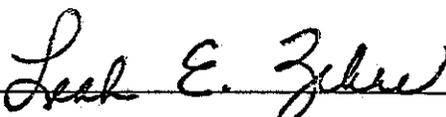
Report Date: 5/4/95
Sample Received: 5/1/95

	Compound <u>Purgeables</u>	Concentration Found In		Method Detection Limit (MDL)
		<u>Sample</u>	<u>Blank</u>	
1.	Benzene	<0.001	<0.001	0.001
2.	Ethylbenzene	<0.001	<0.001	0.001
3.	Toluene	<0.001	<0.001	0.001
4.	Xylene	<0.001	<0.001	0.001
	TOTAL BETX	<0.001		

All results expressed as ppm unless otherwise indicated.

Analyses performed using EPA methods 5030 & 8020, in accordance with SW-846, Third Edition.

The contents of this report apply to the sample analyzed. No duplication of this report is allowed except its entirety.


LABORATORY DIRECTOR



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FAX: 708/967-6735

LABORATORY REPORT

121541

Environmental Contractors of IL, Inc.
5290 Nimitz Road
Loves Park, IL 61111

Report Date: 5/4/95
Sample Received: 5/1/95

Project No.: 536
Project Name: USAFRC - Waukegan
Sample Description: Soil, 536-T2-EB
Sample No.: 17594

<u>Reportable Compound</u>	<u>Concentration Found IN</u>		<u>ADLS Soil</u>
	<u>Sample</u>	<u>Blank</u>	
<u>PNA'S and Naphthalene</u>	<u>ppb</u>	<u>ppb</u>	<u>ppb</u>
1. Naphthalene	<660	<0.5	660
2. Acenaphthene	<1200	<0.5	1200
3. Anthracene	<660	<0.5	660
4. Fluoranthene	<660	<0.5	660
5. Fluorene	<140	<0.2	140
6. Pyrene	<180	<0.4	180
Carcinogenic PNAs (Total)			
7. Benzo(a)anthracene	<8.7	<0.13	8.7
8. Benzo(a)pyrene	<15	<0.23	15
9. Benzo(b)fluoranthene	<11	<0.18	11
10. Benzo(k)fluoranthene	<11	<0.17	11
11. Chrysene	<100	<0.2	100
12. Dibenzo(a,h)anthracene	<20	<0.3	20
13. Indeno(1,2,3,-c,d)pyrene	<29	<0.43	29
Non-Carcinogenic PNAs (Total)			
14. Acenaphthylene	<660	<0.3	660
15. Benzo(g,h,i)perylene	<51	<0.76	51
16. Phenanthrene	<660	<0.2	660

All results expressed as ppb unless otherwise indicated.

Analyses performed using EPA method 8270 in accordance with SW 846, Third Edition.

The contents of this report apply only to the sample analyzed. No duplication of this report is allowed except in its entirety.

Leah E. Zuber

LABORATORY DIRECTOR



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Morton Grove, Illinois 60053-3203
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LABORATORY REPORT

121541-A

Environmental Contractors of IL, Inc.
5290 Nimitz Road
Loves Park, IL 61111

Project No.: 536
Project Name: USAFRC - Waukegan
Sample Description: Soil, 536-T2-EB
Sample No.: 17594

Report Date: 5/4/95
Sample Received: 5/1/95

	<u>Compound</u> <u>Purgeables</u>	<u>Concentration</u> <u>Found In</u>		<u>Method</u> <u>Detection Limit</u> <u>(MDL)</u>
		<u>Sample</u>	<u>Blank</u>	
1.	Benzene	<0.001	<0.001	0.001
2.	Ethylbenzene	<0.001	<0.001	0.001
3.	Toluene	<0.001	<0.001	0.001
4.	Xylene	<0.001	<0.001	0.001
	TOTAL BETX	<0.001		

All results expressed as ppm unless otherwise indicated.

Analyses performed using EPA methods 5030 & 8020, in accordance with SW-846, Third Edition.

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Leah E. Zuber

LABORATORY DIRECTOR



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Morton Grove, Illinois 60053-3203
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LABORATORY REPORT

121542

Environmental Contractors of IL, Inc.
5290 Nimitz Road
Loves Park, IL 61111

Project No.: 536
Project Name: USAFRC - Waukegan
Sample Description: Soil, 536-T3-WB
Sample No.: 17595

Report Date: 5/4/95
Sample Received: 5/1/95

<u>Reportable Compound</u>	<u>Concentration Found IN</u>		<u>ADLS Soil</u>
	<u>Sample</u>	<u>Blank</u>	
<u>PNA'S and Naphthalene</u>	<u>ppb</u>	<u>ppb</u>	<u>ppb</u>
1. Naphthalene	<660	<0.5	660
2. Acenaphthene	<1200	<0.5	1200
3. Anthracene	<660	<0.5	660
4. Fluoranthene	<660	<0.5	660
5. Fluorene	<140	<0.2	140
6. Pyrene	<180	<0.4	180
Carcinogenic PNAs (Total)			
7. Benzo(a)anthracene	<8.7	<0.13	8.7
8. Benzo(a)pyrene	<15	<0.23	15
9. Benzo(b)fluoranthene	<11	<0.18	11
10. Benzo(k)fluoranthene	<11	<0.17	11
11. Chrysene	<100	<0.2	100
12. Dibenzo(a,h)anthracene	<20	<0.3	20
13. Indeno(1,2,3,-c,d)pyrene	<29	<0.43	29
Non-Carcinogenic PNAs (Total)			
14. Acenaphthylene	<660	<0.3	660
15. Benzo(g,h,i)perylene	<51	<0.76	51
16. Phenanthrene	<660	<0.2	660

All results expressed as ppb unless otherwise indicated.

Analyses performed using EPA method 8270 in accordance with SW 846, Third Edition.

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Leah E. Zehner

LABORATORY DIRECTOR



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LABORATORY REPORT

121542-A

Environmental Contractors of IL, Inc.
5290 Nimitz Road
Loves Park, IL 61111

Project No.: 536
Project Name: USAFRC - Waukegan
Sample Description: Soil, 536-T3-WB
Sample No.: 17595

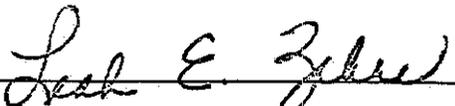
Report Date: 5/4/95
Sample Received: 5/1/95

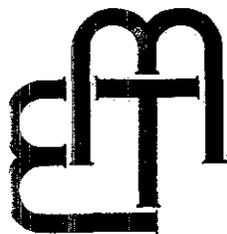
	<u>Compound</u> <u>Purgeables</u>	<u>Concentration</u> <u>Found In</u>		<u>Method</u> <u>Detection Limit</u> <u>(MDL)</u>
		<u>Sample</u>	<u>Blank</u>	
1.	Benzene	<0.001	<0.001	0.001
2.	Ethylbenzene	<0.001	<0.001	0.001
3.	Toluene	<0.001	<0.001	0.001
4.	Xylene	<0.001	<0.001	0.001
	<i>TOTAL BETX</i>	<0.001		

All results expressed as ppm unless otherwise indicated.

Analyses performed using EPA methods 5030 & 8020, in accordance with SW-846, Third Edition.

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LABORATORY DIRECTOR



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Morton Grove, Illinois 60053-3203
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LABORATORY REPORT

121543

Environmental Contractors of IL, Inc.
5290 Nimitz Road
Loves Park, IL 61111

Report Date: 5/4/95
Sample Received: 5/1/95

Project No.: 536
Project Name: USAFRC - Waukegan
Sample Description: Soil, 536-T3-EB
Sample No.: 17596

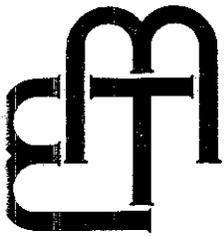
<u>Reportable Compound</u>	<u>Concentration Found IN</u>		<u>ADLS Soil</u>
	<u>Sample</u>	<u>Blank</u>	
<u>PNA'S and Naphthalene</u>	<u>ppb</u>	<u>ppb</u>	<u>ppb</u>
1. Naphthalene	<660	<0.5	660
2. Acenaphthene	<1200	<0.5	1200
3. Anthracene	<660	<0.5	660
4. Fluoranthene	<660	<0.5	660
5. Fluorene	<140	<0.2	140
6. Pyrene	<180	<0.4	180
Carcinogenic PNAs (Total)			
7. Benzo(a)anthracene	<8.7	<0.13	8.7
8. Benzo(a)pyrene	<15	<0.23	15
9. Benzo(b)fluoranthene	<11	<0.18	11
10. Benzo(k)fluoranthene	<11	<0.17	11
11. Chrysene	<100	<0.2	100
12. Dibenzo(a,h)anthracene	<20	<0.3	20
13. Indeno(1,2,3,-c,d)pyrene	<29	<0.43	29
Non-Carcinogenic PNAs (Total)			
14. Acenaphthylene	<660	<0.3	660
15. Benzo(g,h,i)perylene	<51	<0.76	51
16. Phenanthrene	<660	<0.2	660

All results expressed as ppb unless otherwise indicated.

Analyses performed using EPA method 8270 in accordance with SW 846, Third Edition.

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LABORATORY DIRECTOR



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

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LABORATORY REPORT

121543-A

Environmental Contractors of IL, Inc.
5290 Nimtz Road
Loves Park, IL 61111

Project No.: 536
Project Name: USAFRC - Waukegan
Sample Description: Soil, 536-T3-EB
Sample No.: 17596

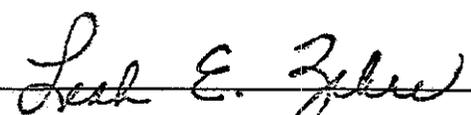
Report Date: 5/4/95
Sample Received: 5/1/95

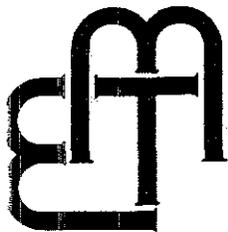
	<u>Compound</u> <u>Purgeables</u>	<u>Concentration</u> <u>Found In</u>		<u>Method</u> <u>Detection Limit</u> <u>(MDL)</u>
		<u>Sample</u>	<u>Blank</u>	
1.	Benzene	<0.001	<0.001	0.001
2.	Ethylbenzene	<0.001	<0.001	0.001
3.	Toluene	<0.001	<0.001	0.001
4.	Xylene	<0.001	<0.001	0.001
	<i>TOTAL BETX</i>	<0.001		

All results expressed as ppm unless otherwise indicated.

Analyses performed using EPA methods 5030 & 8020, in accordance with SW-846, Third Edition.

The contents of this report apply to the sample analyzed. No duplication of this report is allowed except its entirety.


LABORATORY DIRECTOR



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203
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LABORATORY REPORT

121544-A

Environmental Contractors of IL, Inc.
5290 Nimitz Road
Loves Park, IL 61111

Project No.: 536
Project Name: USAFRC - Waukegan
Sample Description: Soil, 536-T2/3-EW
Sample No.: 17597

Report Date: 5/4/95
Sample Received: 5/1/95

	Compound <u>Purgeables</u>	Concentration		Method Detection Limit (MDL)
		Found In <u>Sample</u>	<u>Blank</u>	
1.	Benzene	<0.001	<0.001	0.001
2.	Ethylbenzene	<0.001	<0.001	0.001
3.	Toluene	<0.001	<0.001	0.001
4.	Xylene	<0.001	<0.001	0.001
	<i>TOTAL BETX</i>	<0.001		

All results expressed as ppm unless otherwise indicated.

Analyses performed using EPA methods 5030 & 8020, in accordance with SW-846, Third Edition.

The contents of this report apply to the sample analyzed. No duplication of this report is allowed except its entirety.

Leah E. Zehner

LABORATORY DIRECTOR



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203
708/967-6666
FAX. 708/967-6735

LABORATORY REPORT

121544

Environmental Contractors of IL, Inc.
5290 Nimitz Road
Loves Park, IL 61111

Project No.: 536
Project Name: USAFRC - Waukegan
Sample Description: Soil, 536-T2/3-EW
Sample No.: 17597

Report Date: 5/4/95
Sample Received: 5/1/95

<u>Reportable Compound</u>	<u>Concentration</u>		<u>ADLS Soil</u>
	<u>Found IN</u>	<u>Sample Blank</u>	
<u>PNA'S and Naphthalene</u>	<u>ppb</u>	<u>ppb</u>	<u>ppb</u>
1. Naphthalene	<660	<0.5	660
2. Acenaphthene	<1200	<0.5	1200
3. Anthracene	<660	<0.5	660
4. Fluoranthene	<660	<0.5	660
5. Fluorene	<140	<0.2	140
6. Pyrene	<180	<0.4	180
Carcinogenic PNAs (Total)			
7. Benzo(a)anthracene	<8.7	<0.13	8.7
8. Benzo(a)pyrene	<15	<0.23	15
9. Benzo(b)fluoranthene	<11	<0.18	11
10. Benzo(k)fluoranthene	<11	<0.17	11
11. Chrysene	<100	<0.2	100
12. Dibenzo(a,h)anthracene	<20	<0.3	20
13. Indeno(1,2,3,-c,d)pyrene	<29	<0.43	29
Non-Carcinogenic PNAs (Total)			
14. Acenaphthylene	<660	<0.3	660
15. Benzo(g,h,i)perylene	<51	<0.76	51
16. Phenanthrene	<660	<0.2	660

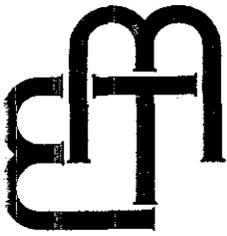
All results expressed as ppb unless otherwise indicated.

Analyses performed using EPA method 8270 in accordance with SW 846, Third Edition.

The contents of this report apply only to the sample analyzed. No duplication of this report is allowed except in its entirety.

Leah E. Zehner

LABORATORY DIRECTOR



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203
708/967-6666
FAX: 708/967-6735

LABORATORY REPORT

121708-A

Environmental Contractors of IL, Inc.
5290 Nimitz Road
Loves Park, IL 61111

Project No.: 536
Project Name: USAFRC - Waukegan
Sample Description: Soil, 536-T2/3-SEW
Sample No.: 17598

Report Date: 5/4/95
Sample Received: 5/1/95

	<u>Compound</u> <u>Purgeables</u>	<u>Concentration</u> <u>Found In</u>		<u>Method</u>
		<u>Sample</u>	<u>Blank</u>	<u>Detection Limit</u> <u>(MDL)</u>
1.	Benzene	<0.001	<0.001	0.001
2.	Ethylbenzene	<0.001	<0.001	0.001
3.	Toluene	<0.001	<0.001	0.001
4.	Xylene	<0.001	<0.001	0.001
	<i>TOTAL BETX</i>	<0.001		

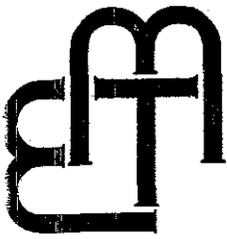
All results expressed as ppm unless otherwise indicated.

Analyses performed using EPA methods 5030 & 8020, in accordance with SW-846, Third Edition.

The contents of this report apply to the sample analyzed. No duplication of this report is allowed except its entirety.

Leah E. Zehr

LABORATORY DIRECTOR



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203
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FAX: 708/967-6735

LABORATORY REPORT

121708

Environmental Contractors of IL, Inc.
5290 Nimtz Road
Loves Park, IL 61111

Project No.: 536
Project Name: USAFRC - Waukegan
Sample Description: Soil, 536-T2/3-SEW
Sample No.: 17598

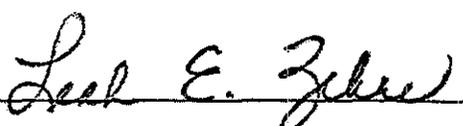
Report Date: 5/5/95
Sample Received: 5/1/95

<u>Reportable Compound</u> PNA'S and Naphthalene	<u>Concentration Found IN</u>		<u>ADLS Soil</u> ppb
	<u>Sample</u> ppb	<u>Blank</u> ppb	
1. Naphthalene	<660	<0.5	660
2. Acenaphthene	<1200	<0.5	1200
3. Anthracene	<660	<0.5	660
4. Fluoranthene	<660	<0.5	660
5. Fluorene	<140	<0.2	140
6. Pyrene	<180	<0.4	180
Carcinogenic PNAs (Total)			
7. Benzo(a)anthracene	<8.7	<0.13	8.7
8. Benzo(a)pyrene	<15	<0.23	15
9. Benzo(b)fluoranthene	<11	<0.18	11
10. Benzo(k)fluoranthene	<11	<0.17	11
11. Chrysene	<100	<0.2	100
12. Dibenzo(a,h)anthracene	<20	<0.3	20
13. Indeno(1,2,3,-c,d)pyrene	<29	<0.43	29
Non-Carcinogenic PNAs (Total)			
14. Acenaphthylene	<660	<0.3	660
15. Benzo(g,h,i)perylene	<51	<0.76	51
16. Phenanthrene	<660	<0.2	660

All results expressed as ppb unless otherwise indicated.

Analyses performed using EPA method 8270 in accordance with SW 846, Third Edition.

The contents of this report apply only to the sample analyzed. No duplication of this report is allowed except in its entirety.


LABORATORY DIRECTOR



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203
708/967-6666
FAX: 708/967-6735

LABORATORY REPORT

121545

Environmental Contractors of IL, Inc.
5290 Nimitz Road
Loves Park, IL 61111

Project No.: 536
Project Name: USAFRC - Waukegan
Sample Description: Soil, 536-T2/3-SWW
Sample No.: 17599

Report Date: 5/4/95
Sample Received: 5/1/95

<u>Reportable Compound</u>	<u>Concentration Found IN</u>		<u>ADLS</u>
<u>PNA'S and Naphthalene</u>	<u>Sample</u>	<u>Blank</u>	<u>Soil</u>
	ppb	ppb	ppb
1. Naphthalene	<660	<0.5	660
2. Acenaphthene	<1200	<0.5	1200
3. Anthracene	<660	<0.5	660
4. Fluoranthene	<660	<0.5	660
5. Fluorene	<140	<0.2	140
6. Pyrene	<180	<0.4	180
Carcinogenic PNAs (Total)			
7. Benzo(a)anthracene	<8.7	<0.13	8.7
8. Benzo(a)pyrene	<15	<0.23	15
9. Benzo(b)fluoranthene	<11	<0.18	11
10. Benzo(k)fluoranthene	<11	<0.17	11
11. Chrysene	<100	<0.2	100
12. Dibenzo(a,h)anthracene	<20	<0.3	20
13. Indeno(1,2,3,-c,d)pyrene	<29	<0.43	29
Non-Carcinogenic PNAs (Total)			
14. Acenaphthylene	<660	<0.3	660
15. Benzo(g,h,i)perylene	<51	<0.76	51
16. Phenanthrene	<660	<0.2	660

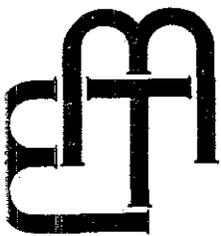
All results expressed as ppb unless otherwise indicated.

Analyses performed using EPA method 8270 in accordance with SW 846, Third Edition.

The contents of this report apply only to the sample analyzed. No duplication of this report is allowed except in its entirety.

Leah E. Zuber

LABORATORY DIRECTOR



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203
708/967-6666
FAX. 708/967-6735

LABORATORY REPORT

121545-A

Environmental Contractors of IL, Inc.
5290 Nimtz Road
Loves Park, IL 61111

Project No.: 536
Project Name: USAFRC - Waukegan
Sample Description: Soil, 536-T2/3-SWW
Sample No.: 17599

Report Date: 5/4/95
Sample Received: 5/1/95

	Compound <u>Purgeables</u>	Concentration Found In		Method Detection Limit (MDL)
		<u>Sample</u>	<u>Blank</u>	
1.	Benzene	<0.001	<0.001	0.001
2.	Ethylbenzene	<0.001	<0.001	0.001
3.	Toluene	<0.001	<0.001	0.001
4.	Xylene	<0.001	<0.001	0.001
	<i>TOTAL BETX</i>	<0.001		

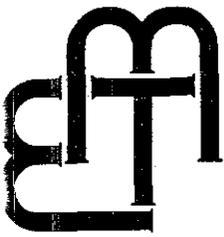
All results expressed as ppm unless otherwise indicated.

Analyses performed using EPA methods 5030 & 8020, in accordance with SW-846, Third Edition.

The contents of this report apply to the sample analyzed. No duplication of this report is allowed except its entirety.

Leah E. Zehner

LABORATORY DIRECTOR



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203
708/967-6666
FAX: 708/967-6735

LABORATORY REPORT

121546

Environmental Contractors of IL, Inc.
5290 Nimitz Road
Loves Park, IL 61111

Project No.: 536
Project Name: USAFRC - Waukegan
Sample Description: Soil, 536-T2/3-WW
Sample No.: 17600

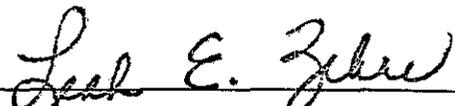
Report Date: 5/4/95
Sample Received: 5/1/95

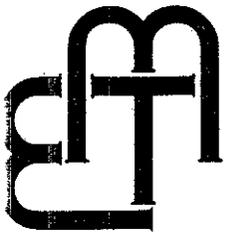
<u>Reportable Compound</u> <u>PNA'S and Naphthalene</u>	<u>Concentration Found IN</u>		<u>ADLS Soil</u> ppb
	<u>Sample</u> ppb	<u>Blank</u> ppb	
1. Naphthalene	<660	<0.5	660
2. Acenaphthene	<1200	<0.5	1200
3. Anthracene	<660	<0.5	660
4. Fluoranthene	<660	<0.5	660
5. Fluorene	<140	<0.2	140
6. Pyrene	<180	<0.4	180
Carcinogenic PNAs (Total)			
7. Benzo(a)anthracene	<8.7	<0.13	8.7
8. Benzo(a)pyrene	<15	<0.23	15
9. Benzo(b)fluoranthene	<11	<0.18	11
10. Benzo(k)fluoranthene	<11	<0.17	11
11. Chrysene	<100	<0.2	100
12. Dibenzo(a,h)anthracene	<20	<0.3	20
13. Indeno(1,2,3,-c,d)pyrene	<29	<0.43	29
Non-Carcinogenic PNAs (Total)			
14. Acenaphthylene	<660	<0.3	660
15. Benzo(g,h,i)perylene	<51	<0.76	51
16. Phenanthrene	<660	<0.2	660

All results expressed as ppb unless otherwise indicated.

Analyses performed using EPA method 8270 in accordance with SW 846, Third Edition.

The contents of this report apply only to the sample analyzed. No duplication of this report is allowed except in its entirety.


LABORATORY DIRECTOR



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203
708/967-6666
FAX. 708/967-6735

LABORATORY REPORT

121546-A

Environmental Contractors of IL, Inc.
5290 Nimitz Road
Loves Park, IL 61111

Project No.: 536
Project Name: USAFRC - Waukegan
Sample Description: Soil, 536-T2/3-WW
Sample No.: 17600

Report Date: 5/4/95
Sample Received: 5/1/95

	<u>Compound</u> <u>Purgeables</u>	<u>Concentration</u> <u>Found In</u>		<u>Method</u> <u>Detection Limit</u> <u>(MDL)</u>
		<u>Sample</u>	<u>Blank</u>	
1.	Benzene	<0.001	<0.001	0.001
2.	Ethylbenzene	<0.001	<0.001	0.001
3.	Toluene	<0.001	<0.001	0.001
4.	Xylene	<0.001	<0.001	0.001
	<i>TOTAL BETX</i>	<0.001		

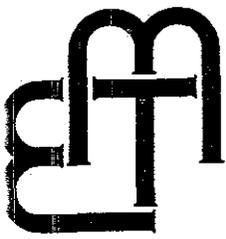
All results expressed as ppm unless otherwise indicated.

Analyses performed using EPA methods 5030 & 8020, in accordance with SW-846, Third Edition.

The contents of this report apply to the sample analyzed. No duplication of this report is allowed except its entirety.

Lesch E. Zehner

LABORATORY DIRECTOR



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203
708/967-6666
FAX. 708/967-6735

LABORATORY REPORT

121707

Environmental Contractors of IL, Inc.
5290 Nimtz Road
Loves Park, IL 61111

Report Date: 5/4/95
Sample Received: 5/1/95

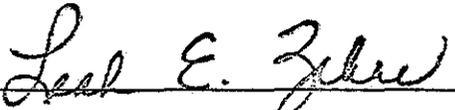
Project No.: 536
Project Name: USAFRC - Waukegan
Sample Description: Soil, 536-T2/3-NWW
Sample No.: 17601

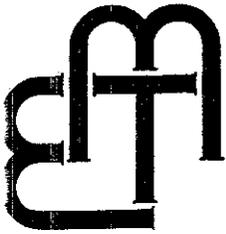
<u>Reportable</u> Compound	<u>Concentration</u> Found IN		<u>ADLS</u>
	<u>Sample</u>	<u>Blank</u>	<u>Soil</u>
<u>PNA'S and Naphthalene</u>	ppb	ppb	ppb
1. Naphthalene	<660	<0.5	660
2. Acenaphthene	<1200	<0.5	1200
3. Anthracene	<660	<0.5	660
4. Fluoranthene	<660	<0.5	660
5. Fluorene	<140	<0.2	140
6. Pyrene	<180	<0.4	180
Carcinogenic PNAs (Total)			
7. Benzo(a)anthracene	<8.7	<0.13	8.7
8. Benzo(a)pyrene	<15	<0.23	15
9. Benzo(b)fluoranthene	15	<0.18	11
10. Benzo(k)fluoranthene	<11	<0.17	11
11. Chrysene	<100	<0.2	100
12. Dibenzo(a,h)anthracene	<20	<0.3	20
13. Indeno(1,2,3,-c,d)pyrene	<29	<0.43	29
Non-Carcinogenic PNAs (Total)			
14. Acenaphthylene	<660	<0.3	660
15. Benzo(g,h,i)perylene	<51	<0.76	51
16. Phenanthrene	<660	<0.2	660

All results expressed as ppb unless otherwise indicated.

Analyses performed using EPA method 8270 in accordance with SW 846, Third Edition.

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LABORATORY DIRECTOR



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203
708/967-6666
FAX. 708/967-6735

LABORATORY REPORT

121707-A

Environmental Contractors of IL, Inc.
5290 Nimtz Road
Loves Park, IL 61111

Project No.: 536
Project Name: USAFRC - Waukegan
Sample Description: Soil, 536-T2/3-NWW
Sample No.: 17601

Report Date: 5/4/95
Sample Received: 5/1/95

	<u>Compound Purgeables</u>	<u>Concentration Found In</u>		<u>Method Detection Limit (MDL)</u>
		<u>Sample</u>	<u>Blank</u>	
1.	Benzene	<0.001	<0.001	0.001
2.	Ethylbenzene	<0.001	<0.001	0.001
3.	Toluene	<0.001	<0.001	0.001
4.	Xylene	<0.001	<0.001	0.001
	<i>TOTAL BETX</i>	<0.001		

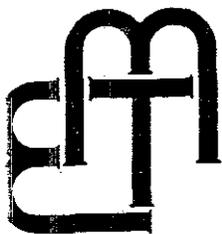
All results expressed as ppm unless otherwise indicated.

Analyses performed using EPA methods 5030 & 8020, in accordance with SW-846, Third Edition.

The contents of this report apply to the sample analyzed. No duplication of this report is allowed except its entirety.

Les E. Zuber

LABORATORY DIRECTOR



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203
708/967-6666
FAX: 708/967-6735

LABORATORY REPORT

121547

Environmental Contractors of IL, Inc.
5290 Nimitz Road
Loves Park, IL 61111

Project No.: 536
Project Name: USAFRC - Waukegan
Sample Description: Soil, 536-T2/3-NEW
Sample No.: 17602

Report Date: 5/11/95
Sample Received: 5/1/95

<u>Reportable</u> Compound	<u>Concentration</u> Found IN		<u>ADLS</u> Soil
	<u>Sample</u>	<u>Blank</u>	
<u>PNA'S and Naphthalene</u>	ppb	ppb	ppb
1. Naphthalene	<660	<0.5	660
2. Acenaphthene	<1200	<0.5	1200
3. Anthracene	<660	<0.5	660
4. Fluoranthene	<660	<0.5	660
5. Fluorene	<140	<0.2	140
6. Pyrene	<180	<0.4	180
Carcinogenic PNAs (Total)			
7. Benzo(a)anthracene	14	<0.13	8.7
8. Benzo(a)pyrene	<15	<0.23	15
9. Benzo(b)fluoranthene	15	<0.18	11
10. Benzo(k)fluoranthene	11	<0.17	11
11. Chrysene	<100	<0.2	100
12. Dibenzo(a,h)anthracene	<20	<0.3	20
13. Indeno(1,2,3,-c,d)pyrene	<29	<0.43	29
Non-Carcinogenic PNAs (Total)			
14. Acenaphthylene	<660	<0.3	660
15. Benzo(g,h,i)perylene	<51	<0.76	51
16. Phenanthrene	<660	<0.2	660

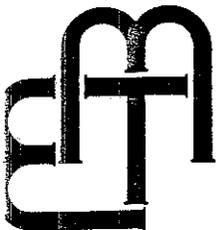
All results expressed as ppb unless otherwise indicated.

Analyses performed using EPA method 8270 in accordance with SW 846, Third Edition.

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Leah E. Zuber

LABORATORY DIRECTOR



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203
708/967-6666
FAX: 708/967-6735

LABORATORY REPORT

121547-A

Environmental Contractors of IL, Inc.
5290 Nimitz Road
Loves Park, IL 61111

Project No.: 536
Project Name: USAFRC - Waukegan
Sample Description: Soil, 536-T2/3-NEW
Sample No.: 17602

Report Date: 5/4/95
Sample Received: 5/1/95

	<u>Compound</u> <u>Purgeables</u>	<u>Concentration</u> <u>Found In</u>		<u>Method</u> <u>Detection Limit</u> <u>(MDL)</u>
		<u>Sample</u>	<u>Blank</u>	
1.	Benzene	<0.001	<0.001	0.001
2.	Ethylbenzene	<0.001	<0.001	0.001
3.	Toluene	<0.001	<0.001	0.001
4.	Xylene	<0.001	<0.001	0.001
	<i>TOTAL BETX</i>	<0.001		

All results expressed as ppm unless otherwise indicated.

Analyses performed using EPA methods 5030 & 8020, in accordance with SW-846, Third Edition.

The contents of this report apply to the sample analyzed. No duplication of this report is allowed except its entirety.

Leah E. Ziller

LABORATORY DIRECTOR



MONITORING AND TECHNOLOGIES, INC.

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203

708-967-6666
FAX: 708/967-6735

Due Date: _____ COC #: _____

20197

Company: Environmental Contractors of Illinois
 Address: 5290 White Road
Lower Park, IL 61111
 Phone #: 810 654-4726 Fax #: 810 654-4736
 P.O. #: _____ Proj #: 536
 Client Contact: Matt Ahrens
 Project ID / Location: US APBC - Wharfegan

Sample Type: Container Type:
 1. Water P - Plastic
 2. Soil G - Glass
 3. Sludge V - VOC
 4. Oil
 5. Waste
 Other: _____
 Preservative:
 1. None 3. HNO3
 2. H2SO4 4. NaOH

Analyses

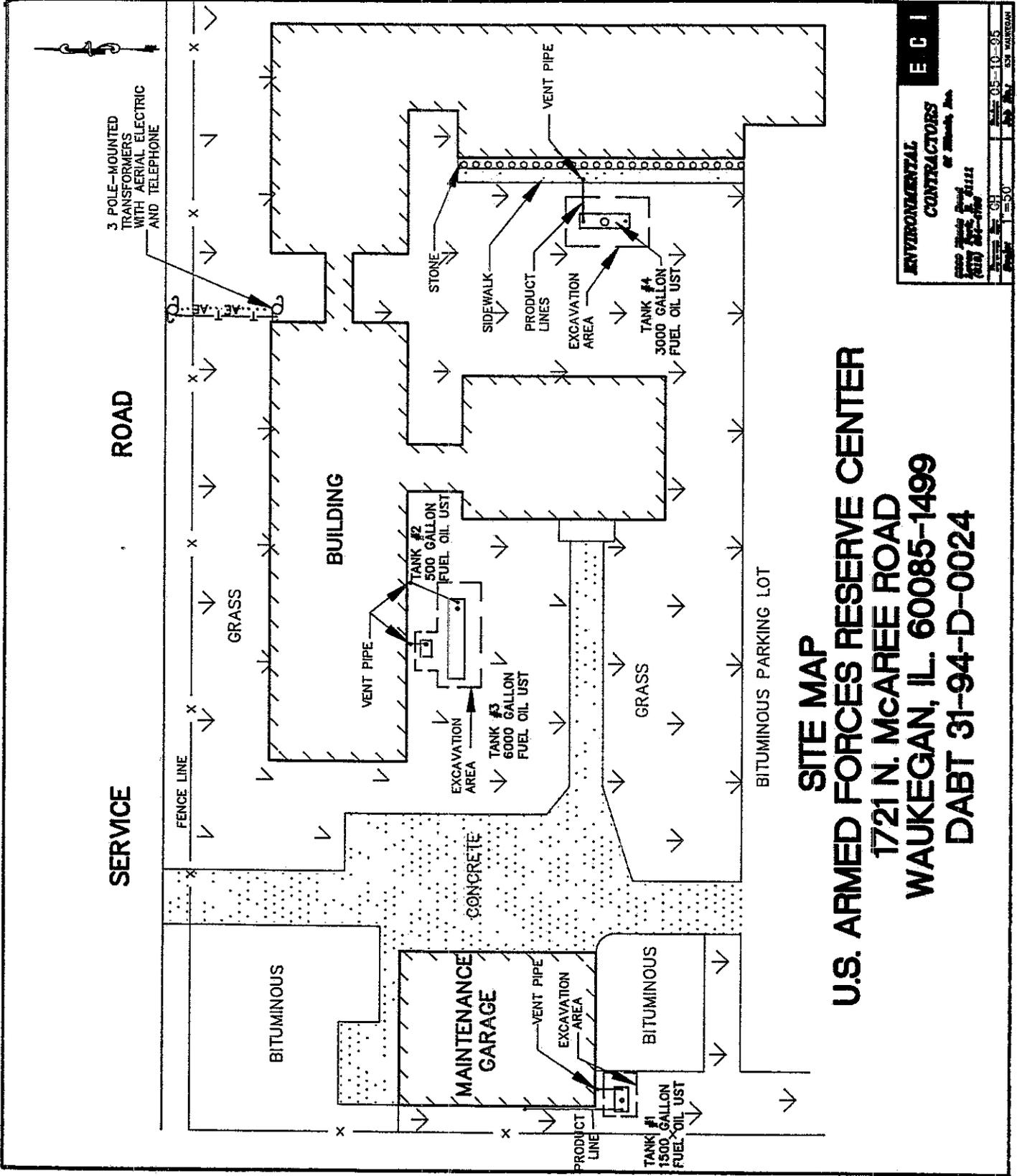
Sample I.D. (10 Characters ONLY)	Sample Type	Container Size	Container Type	No.	Sampling Date	Time	Preservative	Lab I.D.	Comments
S36-T2B-WB	Soil	4oz	G	2	5/1/95	1:20	I	17593	450 lbs Sample
S36-T2B-EB						1:25		17594	PER QUOTE
S36-T2B-WB						1:30		17595	
S36-T2B-EB						1:35		17596	
S36-T2B-EW						1:40		17597	
S36-T2B-EW						1:45		17598	
S36-T2B-EW						1:50		17599	
S36-T2B-EW						1:55		17600	
S36-T2B-MW						2:00		17601	
S36-T2B-MW						2:05		17602	

EMT does not accept samples that contain high levels of Cyanide.

Relinquished By: <u>[Signature]</u>	Date: 5-1-95	Received By: _____	Date: -- --	Witness: _____	TURNAROUND TIME: <input type="checkbox"/> RUSH <input checked="" type="checkbox"/> ---day turnaround <input checked="" type="checkbox"/> ROUTINE
Relinquished By: <u>[Signature]</u>	Date: -- --	Received For Job By: <u>[Signature]</u>	Date: 5-1-95		

SPECIAL INSTRUCTIONS:

E.1.a. SITE MAPS



SITE MAP
U.S. ARMED FORCES RESERVE CENTER
1721 N. MCAREE ROAD
WAUKEGAN, IL. 60085-1499
DABT 31-94-D-0024

ENVIRONMENTAL CONTRACTORS E C I
 600 North Dearborn Street
 Suite 200
 Waukegan, IL 60085
 Phone: 815-491-1111
 Fax: 815-491-1112
 Date: 05-10-95
 Scale: 1" = 50'



BUILDING



EXCAVATION AREA FROM
USTS AND LUST SOIL

SOIL SAMPLE LOCATION MAP
U.S. ARMED FORCES RESERVE CENTER
1721 N. McAREE ROAD
WAUKEGAN, IL. 60085-1499
LUST INCIDENT #941954
CONTRACT No. DABT31-94-D-0024

E C I

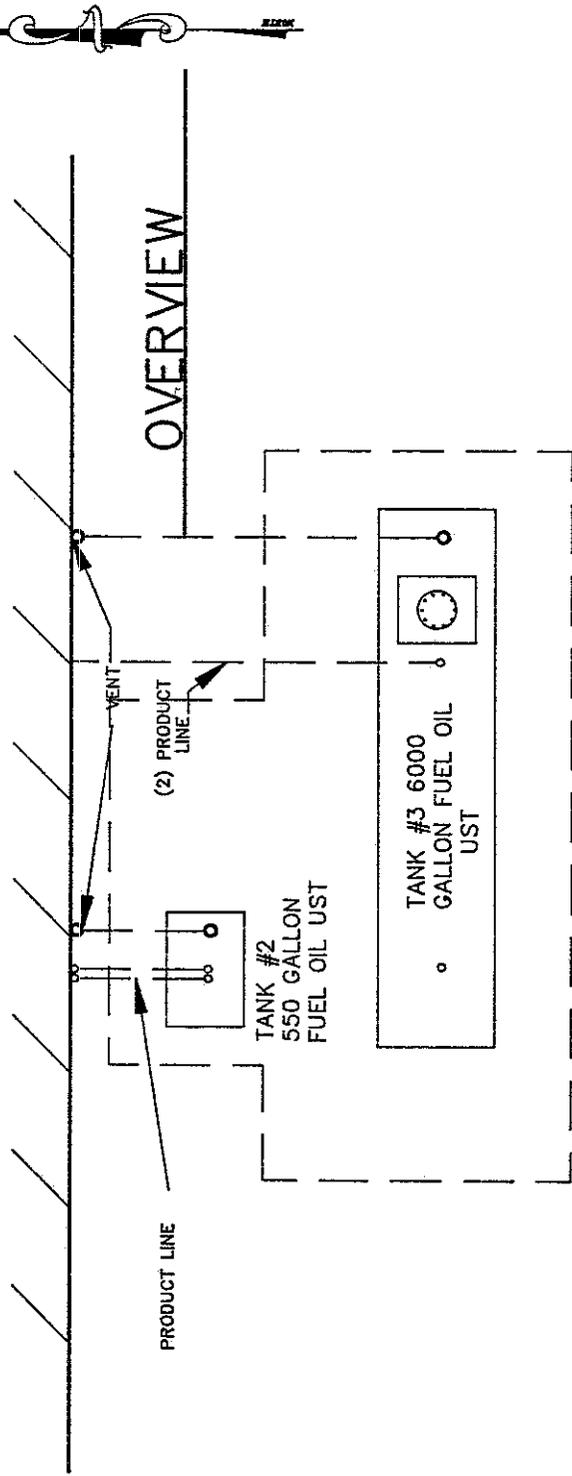
**ENVIRONMENTAL
CONTRACTORS**
Of Illinois, Inc.

5280 Nimix Road
Loves Park, IL 61111
(815) 854-4726

Drawn By: GH
Scale: 1"=10'
Date: 05-18-95
Job No.: 536 WAUKEGAN

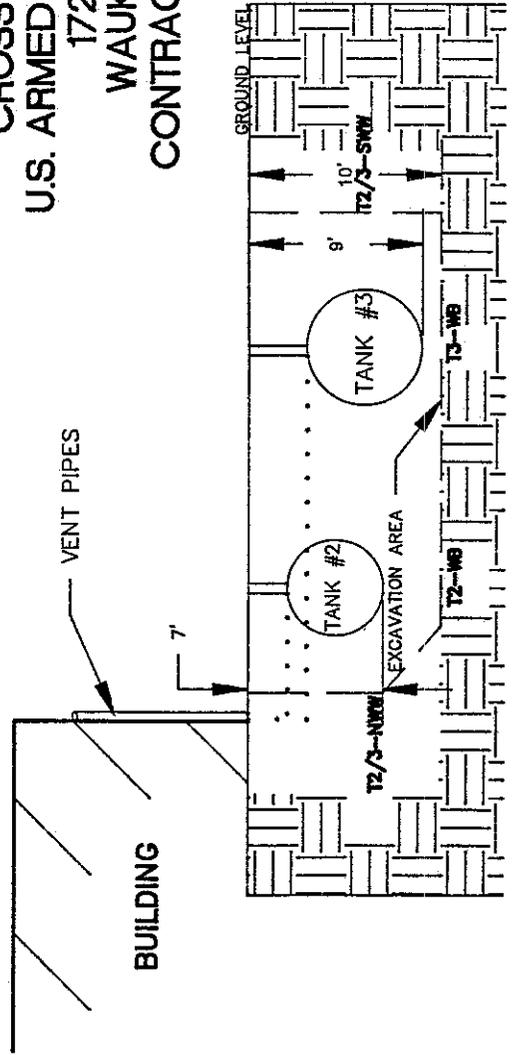
E.1.b. CROSS SECTION

BUILDING



CROSS SECTION

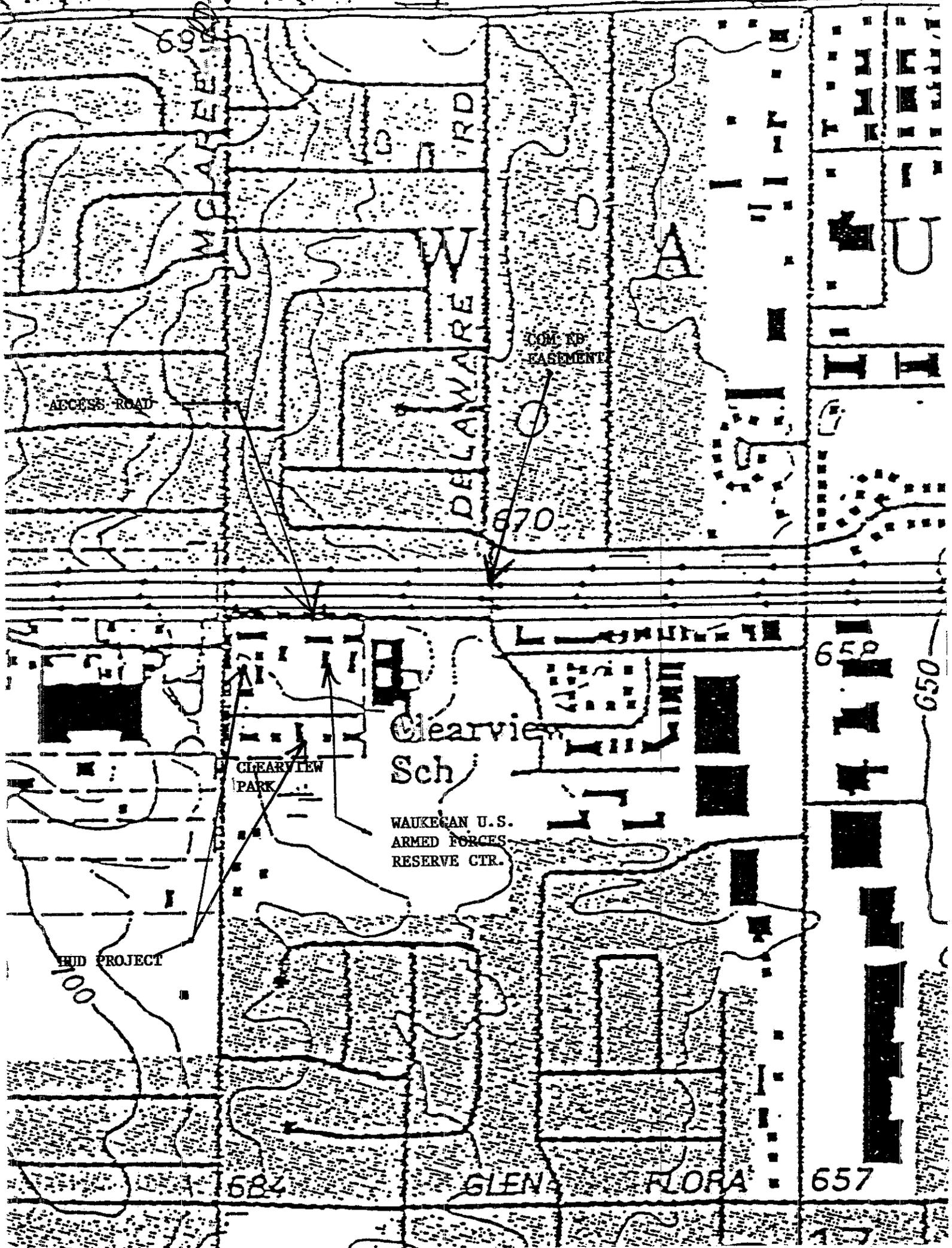
CROSS SECTION FACING EAST
 U.S. ARMED FORCES RESERVE CENTER
 1721 N. McAREE ROAD
 WAUKEGAN, IL. 60085-1499
 CONTRACT No. DABT31-94-D-0024



ENVIRONMENTAL CONTRACTORS
of Illinois, Inc.
 5280 Nimtz Road
 Loves Park, IL 61111
 (815) 654-4728

Drawn By: GH
 Date: 05-17-85
 Scale: 1"=10'
 Job No. 536 WAUKEGAN

E.1.c. AREA MAP



690

W. C. A. R. E. D.

RD

DELAWARE RD

COMM EASEMENT

670

ACCESS ROAD

650

650

CLEARVIEW Sch

CLEARVIEW PARK

WAUKEGAN U.S. ARMED FORCES RESERVE CTR.

HID PROJECT

610

630

GLEN

FLORA

657

**E.2.f. OSFM REMOVAL PERMIT
AMENDED NOTIFICATION FOR USTS
CERTIFICATION OF REMOVAL FORMS**

REVISED PERMIT FOR REMOVAL OF
UNDERGROUND STORAGE TANKS FOR PETROLEUM AND HAZARDOUS SUBSTANCES

Permission to remove underground storage tank or tanks and piping is hereby granted. Such removal shall not commence until As Directed. A seventy-two (72) hour - 3 working day notice given by the contractor is required to confirm final date of the removal for confirmation of our Inspector to be on site. This Office Phone Number is 217-785-5878 or 217-785-1020. THIS PERMIT IS VALID FOR 6 MONTHS FROM THE APPROVAL DATE.

You must notify IEMA 1-800-782-7860 within 24 hours of leaks or contaminated soil.

Removal must be in accordance with acceptable closure requirements and procedures, such as API Bulletin 1604. A site assessment must be conducted to determine if a release has occurred.

- 1) Owner - corporation, partnership or other business entity:

HQ 86th US ARCOM ATTN:AFRC AIL EN
Name 7402 W. Roosevelt Road
Street Address Forest Park IL 60130-2587
City Dave Jennings State (708)209-2597 Zip
Contact Person Phone

- 2) Name and Location of Facility Where Removal is to Occur:

Armed Forces Reserve Center
Name 1721 North McAree Road
Street Address Waukegan IL 60085-1499
City Mike Tortorici County (708)662-1125 Zip
Contact Person Phone

- 3)

a) (5)-3000 gallon
Number and size of tanks being removed
b) Tanks are leaking - 94-1954

Reason for removal of tanks

- 4) Person, Firm or Company Performing Work:

Environmental Contractors of Illinois Inc.
Name 5290 Nimitz Road
Street Address Loves Park IL 61111
City (815)654-4726 State 363-69-2550 Zip
Contact Person/Phone Registration No.

- 5) Owner must notify this Office when completion of tank removal has occurred, on OSFM Notification Form. Please note a OSFM Notification Form has been forwarded to the name and address shown in Item 1 (All pages of this form must be completed).

JG
cc: DPCS Specialist Dwyer
Fire Department JS
Division File
Office Associate
Rev. 5/94
84

Sincerely, W. Dale Tanke
W. Dale Tanke, Storage Tank Safety Engineer

CITY of WAUKEGAN



MAYOR / WILLIAM F. DURKIN
CITY CLERK / SAM FILIPPO
TREASURER / DAN DREW

FIRE DEPARTMENT

1101 Belvidere Street
Waukegan, Illinois 60085

Charles R. Perkey, Fire Chief
(708) 249-5410
FAX (708) 249-5607

WAUKEGAN FIRE DEPARTMENT BUREAU OF FIRE PREVENTION

UNDERGROUND STORAGE TANK CLOSURE / REMOVAL

NAME OF COMPANY U.S. ARMY RESERVE CENTER PHONE 708/662-1125
ADDRESS 1721 N. MC AREE ROAD, WAUKEGAN, IL 60085-1499
DATE 4/27/95 AND 4/28/95 TIME N/A INSPECTOR OSEM SUE DWYER
CONTRACTOR ENVIORNMENTAL CONTRACTORS OF ILLINOIS INC. PH 815/654-4726
ADDRESS 5290 NIMTZ ROAD CITY LOVES PARK ST IL ZIP 61111
SITE CONTACT MIKE TORTORICI CONTRS REG # 363692550

Illinois Fire Marshall Yes No Permit Number 0020-95 REM
Illinois E.P.A. : Yes No Permit / Incident Number 941954
Waukegan: Yes No

* No Permits No Work Preformed / Allowed *

Tank / Tanks

	<u>Contents</u>	<u>Size</u>	<u>Product</u> <u>In Tank</u>	<u>Apparent</u> <u>Condition</u>
No. 1	<u>#2 FUEL OIL</u>	<u>1500 GAL.</u>	<u>YES</u>	<u>GOOD</u>
No. 2	<u>#2 FUEL OIL</u>	<u>550 GAL.</u>	<u>YES</u>	<u>POOR-HOLES IN TANK</u>
No. 3	<u>#2 FUEL OIL</u>	<u>6000 GAL.</u>	<u>YES</u>	<u>GOOD</u>
No. 4	<u>#2 FUEL OIL</u>	<u>3000 GAL.</u>	<u>YES</u>	<u>GOOD</u>

Location of tanks and property 3 DIFFERENT LOCATIONS AT RESERVE CENTER (WEST/CENTER/EAST)

JULIE Notified: Yes No Date Notified _____ Dig Number _____

Product removed from Tank / s: Yes 5200 GAL. No

By whom TANK AND INDUSTRIAL CLEANING SERVICES (TICS) Phone Number 815/394-3880

Licensed waste hauler: Yes No Illinois EPA Number 2990

IL Notification for Underground Storage Tanks **OFFICE USE ONLY**

- A separate form must be used for each site.
- If you have more than five tanks, photocopy pages 1-5 and attach to this notification form.
- Please type, or print in ink; the signature under "certification" (section IX) must be signed in ink.

ID NUMBER _____

DATE RECEIVED _____

Facility I.D. # (if known) 2033756 Owner I.D. # (if known) _____

TYPE OF NOTIFICATION

New Facility Amended (Changes Corrections / Additional Tanks) Mark all that apply:

_____ Owner Address Change (this facility only) _____ Tanks Relined (Permit # _____)

_____ Owner Address Change (all facilities owned) _____ Tanks Installed (Permit # _____)

_____ New Owner _____ Tanks Upgraded/Repaired (Permit # _____)

Tank(s) Removed (Permit # 0020-95) _____ Abandonment Notice (Permit # _____)

_____ Other _____

I. Ownership of Tank(s) **II. Location of Tank(s)**
(if same as Section I, Mark box)

<p>DEPT. OF THE ARMY, HQ 86TH U.S. ARCOM</p> <p>Owner Name (Corp., Individual., Public Agency or other Entity)</p> <p>7402 W. ROOSEVELT RD.</p> <p>Mailing Address</p> <p>FOREST PARK IL 60130-2587</p> <p>City State Zip</p> <p>COOK</p> <p>County</p> <p>Contact Name (Area Code) Phone</p>	<p>ARMED FORCES RESERVE CENTER</p> <p>Facility Name or Company Site Identifier, as applicable</p> <p>1721 N. MCAREE ROAD</p> <p>Street Address or State Road, as applicable (exact address)</p> <p>WAUKEGAN IL 60085-1499</p> <p>City State Zip</p> <p>LAKE</p> <p>County</p> <p>MIKE TORTORICI (708) 662-1125</p> <p>Contact Name (Area Code) Phone</p>
---	---

III. TYPE OF OWNERSHIP (mark all that apply)

Current Owner of Tanks Date Purchased UNKNOWN Ownership Uncertain _____

Former Owner Other _____

IV. TYPE OF FACILITY

Type of Facility: (Circle correct code)

<p>A. Service Station</p> <p>B. Bulk Plant</p> <p>C. Petroleum Distributor</p> <p>D. Convenience Store</p> <p>E. Auto Dealer</p> <p>F. Commercial/Retail</p>	<p>G. Industrial/Manufacturing</p> <p>H. Private Institution</p> <p>I. Residence (Non-Farm)</p> <p>J. Farm</p> <p>K. Airport</p> <p>L. Marina</p>	<p>M. City/Town</p> <p>N. County</p> <p>O. State</p> <p><u>P. Federal (Military)</u></p> <p>Q. Federal (Non-Military)</p> <p>R. School District</p>	<p>S. Port District</p> <p>T. Utility District</p> <p>U. Fire Dept.</p> <p>V. Other Special Service Districts</p> <p>W. Other _____</p> <p style="text-align: right;">(Please Specify)</p>
--	---	---	--

VII. Certification of Compliance (Complete for all new, upgraded and relined tanks at this location)

Installation (mark all that apply)

Installer certified by tank and piping manufacturers	<input type="checkbox"/>				
Installer certified or licensed by implementing agency	<input type="checkbox"/>				
Installer registered by implementing agency	<input type="checkbox"/>				
Installer is the owner of the tank(s)	<input type="checkbox"/>				
Installation inspected by a registered engineer	<input type="checkbox"/>				
Installation inspected & approved by implementing agency	<input type="checkbox"/>				
Manufacturer's installation checklists have been completed	<input type="checkbox"/>				
Another method allowed by state agency (please specify)	_____	_____	_____	_____	_____

OATH: I certify the information that is provided in section VII is true to the best of my knowledge, and certify that the installation was performed in accordance with all applicable state and federal laws and regulations. (THIS SECTION MAY ONLY BE COMPLETED BY THE CONTRACTOR. SEPARATE OATH MUST BE SUBMITTED FOR EACH ACTIVITY PERFORMED BY DIFFERENT CONTRACTOR.)

Tank No. _____ Permit No. _____

Contractor: _____
 Name Signature (must be original) Date

 Position Company

VIII. Financial Responsibility

Mark all that apply:

- Self-Insurance Guarantee Certificate of Deposit
- Commercial Insurance Surety Bond Trust Fund
- Risk Retention Group Letter of Credit Other Method Allowed

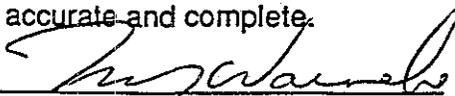
(please specify) _____

IX. Certification (Read and sign after completing all sections)

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

MATT WARNEKE - PROJECT MANAGER

Name and official title of owner or owner's authorized representative (print)



Signature (must be original)

5-16-95

Date Signed



Office of the Illinois State Fire Marshal
 Division of Petroleum and Chemical Safety
 1035 Stevenson Drive
 Springfield, Illinois 62703-4259

Facility #: 2-033756

Permit #: 0020-95 REM

Certification to be completed by the tank owner or operator. This form and the amended notification form must be returned to the Office of the Illinois State Fire Marshal / Division of Petroleum and Chemical Safety within 30 days of completion of the work.

Owner: HQ 86TH U.S. ARCOM

Facility: U.S. ARMED FORCES RESERVE CENTER

Address: 7402 W. ROOSEVELT ROAD

Address: 1721 N. MCAREE ROAD

City: FOREST PARK

City: WAUKEGAN

State: ILLINOIS Zip: 60130-2587

County: LAKE Zip: 60085-1499

CERTIFICATION OF REMOVAL

I certify that the removal of the UST(s) listed below was conducted in accordance with all applicable rules and regulations.

Size of tank(s) removed: 1500gal

Product stored: #2 HEATING OIL

Date Tank removed: 4/27/95

Contractor:

Name: ENVIRONMENTAL CONTRACTORS OF ILLINOIS, INC.

Address: 5290 NIMTZ ROAD

City: LOVES PARK State: ILLINOIS Zip: 61111

Phone #: (815) 654-4726 Registration #: 363692550

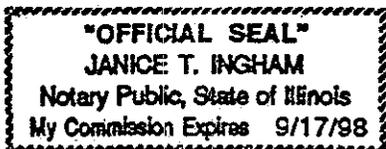
This certification shall not prohibit OSFM from conducting an independent inspection of the site and/or challenging the veracity of the owner or operator of this document.

Signature (Owner/Operator): Keith D. Deligischlaeger

Title: MECH. ENGR. FLW. MD

Date: 4-27, 19 95

SUBSCRIBED and sworn to before me this 27th day of April, 19 95



Janice T. Ingham
 Notary Public

Scott C. Sawyer 4/27/95
 Storage Tank Safety Specialist Date

* (OSFM/Jan.94)



Office of the Illinois State Fire Marshal
 Division of Petroleum and Chemical Safety
 1035 Stevenson Drive
 Springfield, Illinois 62703-4259

Facility #: 2-033756
 Permit #: 0020-95REM

Certification to be completed by the tank owner or operator. This form and the amended notification form must be returned to the Office of the Illinois State Fire Marshal / Division of Petroleum and Chemical Safety within 30 days of completion of the work.

Owner: HQ 86TH U.S. ARCOM Facility: U.S. ARMED FOREST RESERVE CENTER
 Address: 7402 W. ROOSEVELT ROAD Address: 1721 N. MCAREE ROAD
 City: FOREST PARK City: WAUKEGAN
 State: ILLINOIS Zip: 60130-2587 County: LAKE Zip: 60085-1499

CERTIFICATION OF REMOVAL

I certify that the removal of the UST(s) listed below was conducted in accordance with all applicable rules and regulations.

Size of tank(s) removed: 3000gal
 Product stored: #2 HEATING OIL
 Date Tank removed: 4/28/95

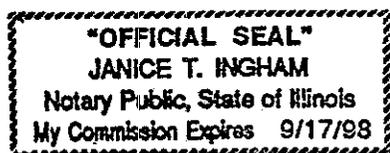
Contractor:

Name: ENVIRONMENTAL CONTRACTORS OF ILLINOIS, INC.
 Address: 5290 NIMTZ ROAD
 City: LOVES PARK State: ILLINOIS Zip: 61111
 Phone #: (815) 654-4726 Registration #: 363692550

This certification shall not prohibit OSFM from conducting an independent inspection of the site and/or challenging the veracity of the owner or operator of this document.

Signature (Owner/Operator): Keith D. Schlaeger
 Title: MECH ENGR F&W, MD
 Date: 4-28, 19 95

SUBSCRIBED and sworn to before me this 28th day of April, 19 95



Janice T. Ingham
 Notary Public

She C. Sawyer 4/28/95
 Storage Tank Safety Specialist Date

**E.3. MANIFESTS
EMPTY CONTAINER CERTIFICATES**



PLEASE TYPE

(Form designed for use on elite (12-pitch) typewriter.)

State Form LPC 62 8/81 IL592-0810 EPA Form 8700-22 (Rev. 6-89)

Form Approved, OMB No. 2050-0036, Expires 6-30-94

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Master Document No.	2. Page 1 of	Information in the shaded areas is not required by Federal law, but is required by Illinois law.	
3. Generator's Name and Mailing Address TICS 1528 18th Avenue Rockford, IL 61104		Location If Different Army Reserve Center 1721 McAree Road Waukegan, IL		Multiple Manifest Document Number 116334271		Generator's US EPA ID No. 2010305609	
4. 24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS		5. Transporter 1 Company Name TICS		6. US EPA ID Number		7. Telephone Number	
7. Transporter 2 Company Name		8. US EPA ID Number		9. Telephone Number		10. Hazardous Waste Code	
8. Designated Facility Name and Site Address IPC 4430 Boeing Drive Rockford, IL 61109		9. US EPA ID Number		11. Facility Name		12. Facility Address	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No.		13. Total Quantity		14. Unit Wt/Vol	
a. Non Hazardous Waste Liquid		001		TT		G	
b.							
c.							
d.							
Additional Description of Materials Listed Above Water Pumped From Bottom of Heating Oil Tanks		K. Handling Codes for Wastes Listed Above In Item 11 G = Gallons Y = Cubic Yards					
15. Special Handling Instructions and Additional Information Invoice 03585							
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 HOWARD JACKSON		Signature <i>Howard Jackson</i>		Date 2-6-95		Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name HOWARD JACKSON		Signature <i>Howard Jackson</i>		Date 2-6-95	
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature		Date	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.		Printed/Typed Name		Signature		Date	

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 113 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Falsification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Waste Management Center.

In case of a spill call the Illinois Office of Emergency Response at 217 / 782-7860 and the National Response Center at 800 / 424-8802 or 202 / 426-2675.



EMPTY CONTAINER CERTIFICATION

UST CLEANING: ABOVE GROUND BELOW GROUND INGROUND CLOSURE

DATE OF EXCAVATION 4-27-95

DATE OF CLEANING 4-27-95

CONTRACTOR: Name: Environmental Contractors of Illinois
Address: 5290 Nimitz Road
City, State, Zip: Loves Park, IL 61111
Contact: _____

GENERATOR: Name: Waukegan AFRC
Address: 1721 N. McAree Road
City, State, Zip: Waukegan, IL
Contact: _____

Approximate location on site: South side of Building

TANK SIZE: 550 Gallons 48" Diameter 74" Length

UST INTEGRITY: Holes Found Yes No

Steel Fiberglass Other _____

UST CONTENTS: Heating Oil Gasoline Diesel Other _____
 #2
 #5
 #6

T.I.C.S. CLEANING PROCEDURES:

- Trisodium Phosphate high pressure wash and triple rinse
- Diesel fuel application
- Scrape and shovel

Cleaned tank reading: Oxygen 21%, Lower Explosion limit: 0%
Vapor freeing done in accordance with API 1604 (Section 4) (4.2.5), API 2015 (Section 4) (4.7.1.3., 4.7.1.4)

COMMENTS _____

We hereby certify that the tank described above is an empty container in accordance with Federal Regulations 40 CFR 261.7 (b)(1)(I,II,III), (A,B), and/or triple rinsed in accordance with Federal Regulations 40 CFR 261.7 (b)(3)(I,II,III).

T.I.C.S. Signature [Signature] Date 4/27/95
Contractor Signature [Signature] Date 4/27/95
Receiving Facility Signature _____ Date 1/1

TANK & INDUSTRIAL CLEANING SERVICE

1528 - 18th Avenue Rockford, Illinois 61104 815/394-1779 Fax: 815/394-0241

White: Receiving Copy Canary: Contractor's Copy Pink: Generator's Copy Gold: T.I.C.S. Copy

EMPTY CONTAINER CERTIFICATION

UST CLEANING: ABOVE GROUND BELOW GROUND INGROUND CLOSURE

DATE OF EXCAVATION 4-27-95

DATE OF CLEANING 4-27-95

CONTRACTOR: Name: Environmental Contractors of Illinois
Address: 5290 Nimitz Road
City, State, Zip: Loves Park, IL 61111
Contact: _____

GENERATOR: Name: Waukegan AFRC
Address: 1721 N. McAree Road
City, State, Zip: Waukegan, IL
Contact: _____

Approximate location on site: South Side of Building

TANK SIZE: 6000 Gallons 6' Diameter 29' Length

UST INTEGRITY: Holes Found Yes No

Steel Fiberglass Other _____

UST CONTENTS: Heating Oil Gasoline Diesel Other _____
 #2
 #5
 #6

T.I.C.S. CLEANING PROCEDURES:

Trisodium Phosphate high pressure wash and triple rinse

Diesel fuel application

Scrape and shovel

Cleaned tank reading: Oxygen 21%

Lower Explosion limit: 0%

Vapor freeing done in accordance with API 1604 (Section 4) (4.2.5), API 2015 (Section 4) (4.7.1.3., 4.7.1.4)

COMMENTS _____

We hereby certify that the tank described above is an empty container in accordance with Federal Regulations 40 CFR 261.7 (b)(1)(I,II,III), (A,B), and/or triple rinsed in accordance with Federal Regulations 40 CFR 261.7 (b)(3)(I,II,III).

T.I.C.S. Signature Mark Walsh Date 4/27/95

Contractor Signature W.D. Wenzel Date 4/27/95

Receiving Facility Signature _____ Date / /

TANK & INDUSTRIAL CLEANING SERVICE

1528 - 18th Avenue

Rockford, Illinois 61104

815/394-1779

Fax: 815/394-0241

White: Receiving Copy

Canary: Contractor's Copy

Pink: Generator's Copy

Gold: T.I.C.S. Copy

EMPTY CONTAINER CERTIFICATION

UST CLEANING: ABOVE GROUND BELOW GROUND INGROUND CLOSURE

DATE OF EXCAVATION 4-28-95

DATE OF CLEANING 4-28-95

CONTRACTOR: Name: Environmental Contractors of Illinois
Address: 5290 Nimitz Road
City, State, Zip: Loves Park, IL 61111
Contact: _____

GENERATOR: Name: Waukegan AFRC
Address: 1721 N. McAree Road
City, State, Zip: Waukegan, IL
Contact: _____

Approximate location on site: South East Side of Building

TANK SIZE: 3000 Gallons 64" Diameter 78' Length

UST INTEGRITY: Holes Found Yes No

Steel Fiberglass Other _____

UST CONTENTS: Heating Oil Gasoline Diesel Other _____

#2

#5

#6

T.I.C.S. CLEANING PROCEDURES:

Trisodium Phosphate high pressure wash and triple rinse

Diesel fuel application

Scrape and shovel

Cleaned tank reading: Oxygen 21%

Lower Explosion limit: 0%

Vapor freeing done in accordance with API 1604 (Section 4) (4.2.5), API 2015 (Section 4) (4.7.1.3., 4.7.1.4)

COMMENTS _____

We hereby certify that the tank described above is an empty container in accordance with Federal Regulations 40 CFR 261.7 (b)(1)(I,II,III), (A,B), and/or triple rinsed in accordance with Federal Regulations 40 CFR 261.7 (b)(3)(I,II,III).

T.I.C.S. Signature [Signature] Date 4/28/95

Contractor Signature [Signature] Date 4/28/95

Receiving Facility Signature _____ Date / /

TANK & INDUSTRIAL CLEANING SERVICE

1528 - 18th Avenue

Rockford, Illinois 61104

815/394-1779

Fax: 815/394-0241

White: Receiving Copy

Canary: Contractor's Copy

Pink: Generator's Copy

Gold: T.I.C.S. Copy

E.4. PHOTO DOCUMENTATION



PHOTO #1. Date: April 28, 1995. Photo taken facing south.
Description: Entrance to the U S. Armed Forces Reserve Center located in Waukegan, Illinois.



PHOTO #2. Date: April 27, 1995. Photo taken facing east.
Description: Excavation area following the removal of Tank #1 (1500 gallon #2 fuel oil UST) located at the southwest corner of the maintenance building.
Note the perched water in the excavation.

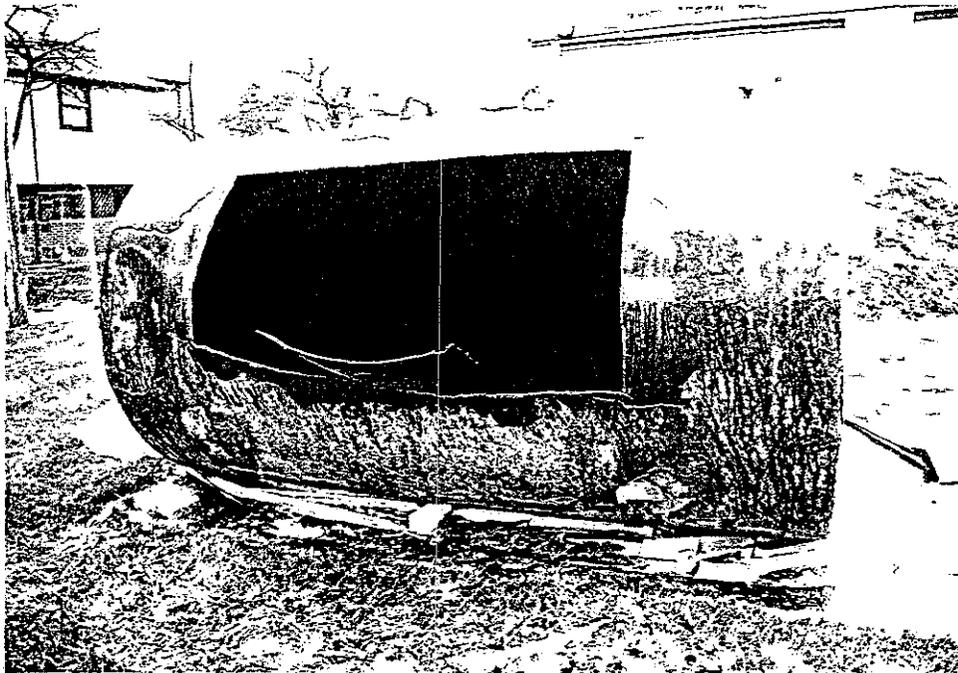


PHOTO #3. Date: April 27, 1995. Photo taken facing north.
Description: Tank #1 following removal and tank cleaning.



PHOTO #4. Date: April 28, 1995. Photo taken facing northwest.
Description: Tank #1 excavation area following backfilling.



PHOTO #5. Date: April 27, 1995. Photo taken facing north.
Description: Uncovering Tank #2 (550 gallon #2 fuel oil LUST) and Tank #2 (6,000 gallon #2 fuel oil UST) located south of main building.



PHOTO #6. Date: April 27, 1995. Photo taken facing north.
Description: Removal of Tank #2 from excavation. Tank had several holes in the bottom and sides. Contaminated soil was evident surrounding LUST.



PHOTO #7. Date: April 27, 1995. Photo taken facing northwest.
Description: TICS performing tank cleaning activities for tank #1 and #2.



PHOTO #8. Date: April 27, 1995. Photo taken facing north/northeast.
Description. Uncovering Tank #3 (6,000 gallon UST).
Note the 7' x 7' concrete pad which surrounded the UST manhole.

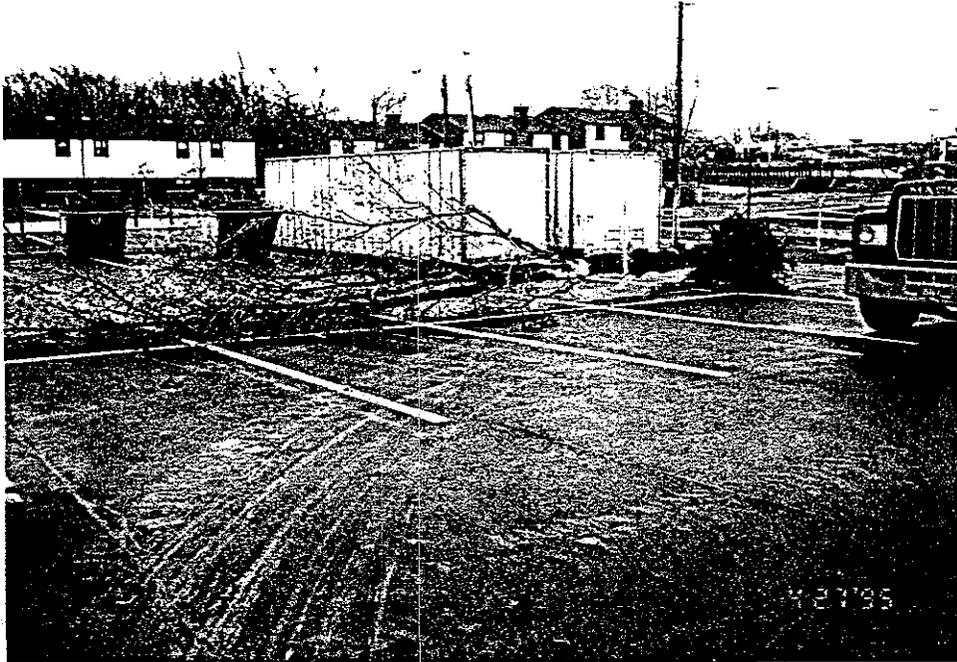


PHOTO #9. Date: April 27, 1995. Photo taken facing southwest.
Description: Tree which had to be removed from UST excavation area.

PHOTO #10

Date: April 27, 1995.

Photo taken facing east.

Description: Tank #3 and former location (left) of Tank #2. Note perched water in excavation from periods of heavy rainfall prior to and during UST removal.

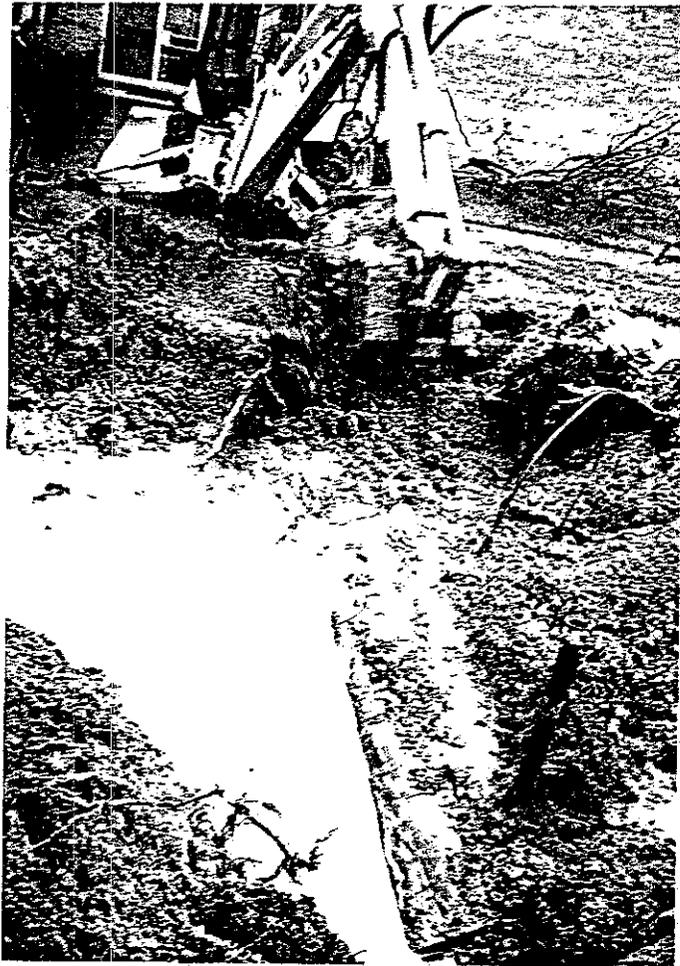


PHOTO #11. Date: April 27, 1995. Photo taken facing west.

Description: Tank #3 exposed.

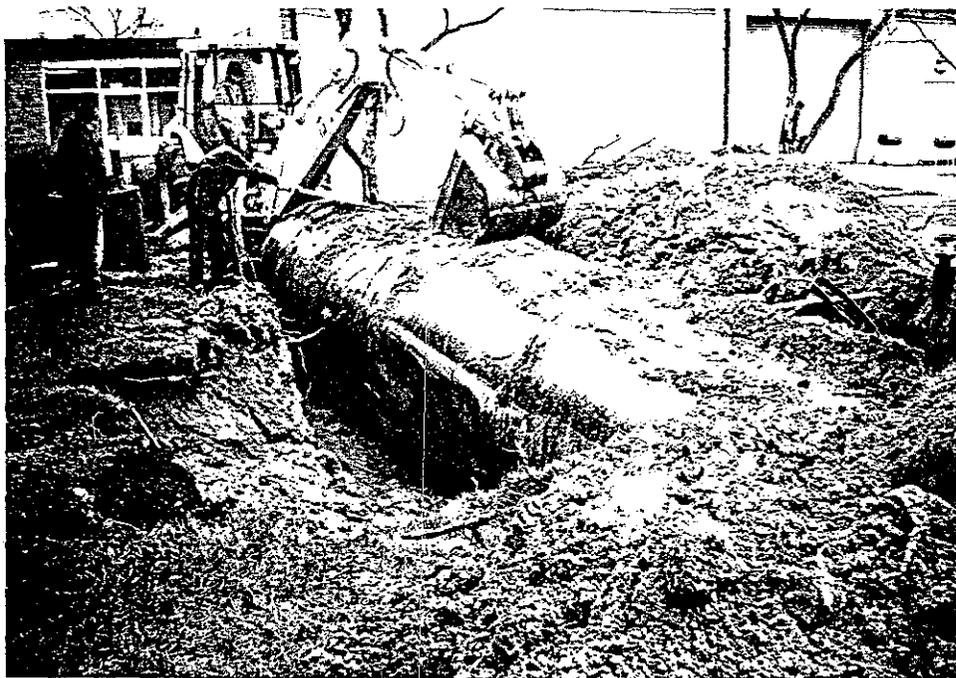


PHOTO #12. Date: April 27, 1995. Photo taken facing east.
Description: Preparing Tank #3 for removal.

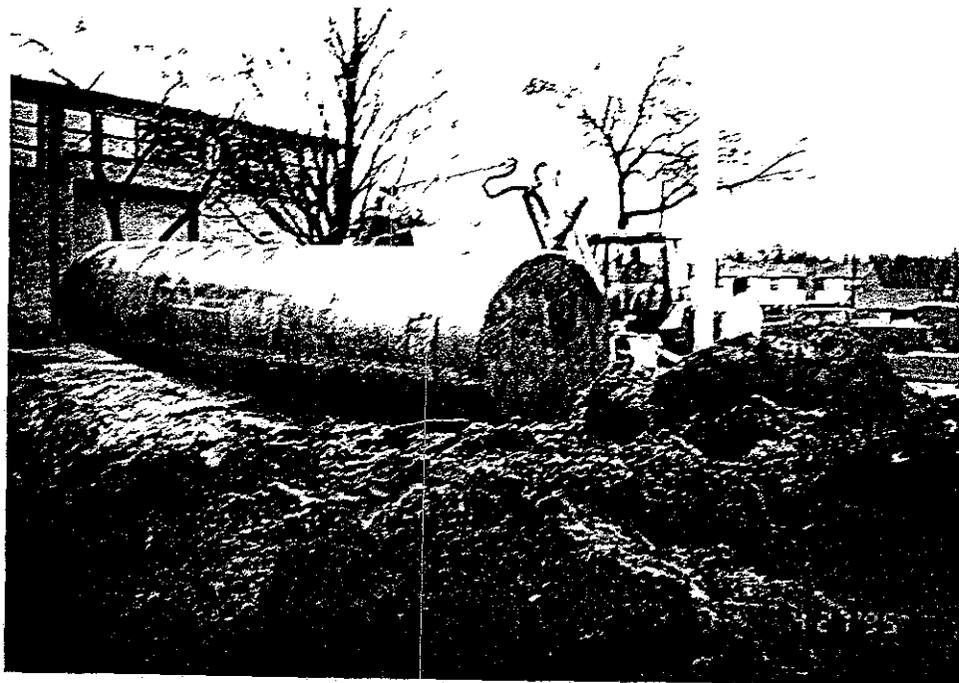


PHOTO #13. Date: April 27, 1995. Photo taken facing southeast.
Description: Removal of Tank #3.



PHOTO #14. Date: April 27, 1995. Photo taken facing east.
Description: Excavation area following the removal of Tank #2 and #3.
Note the perched water from heavy precipitation.



PHOTO #15. Date: April 28, 1995. Photo taken facing northeast.
Description: Tank #2 and #3 excavation area partially backfilled and
fenced off until LUST soil disposal is scheduled.

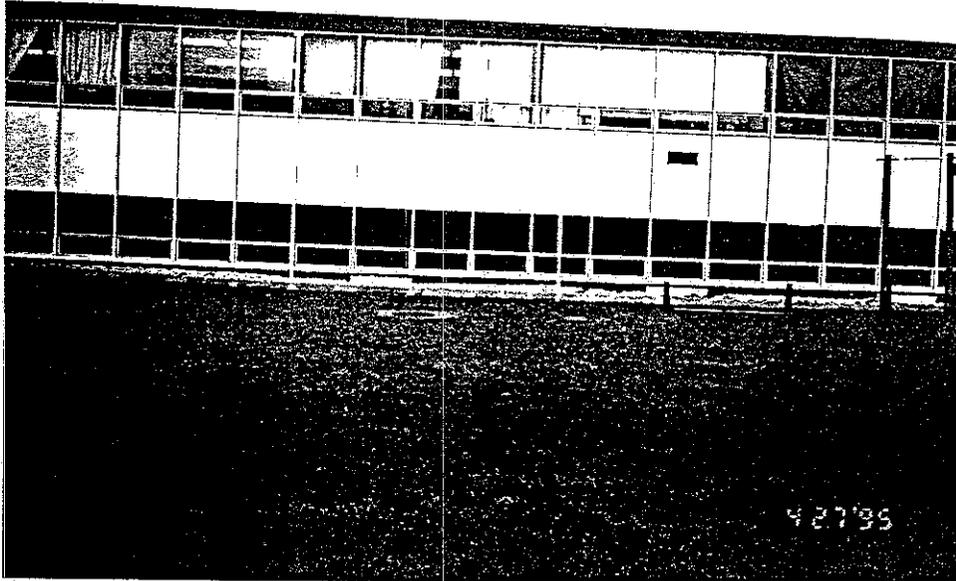


PHOTO #16. Date: April 27, 1995. Photo taken facing east.
Description: Tank #4 (3,000 gallon #2 fuel oil UST) manhole and fill/vent pipes located on the east side of the property.



PHOTO #17. Date: April 28, 1995. Photo taken facing northeast.
Description: The 3,000 gallon UST exposed.



PHOTO #18. Date: April 28, 1995. Photo taken facing south.
Description: ECI personnel preparing to remove Tank #4.

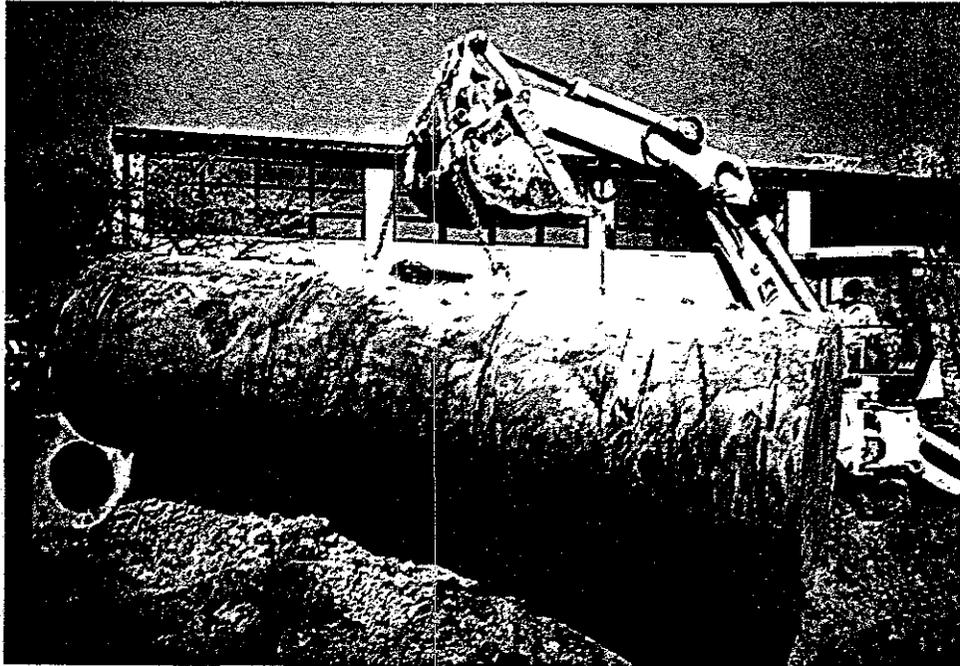


PHOTO #19. Date: April 28, 1995. Photo taken facing west.
Description: Removal of Tank #4.

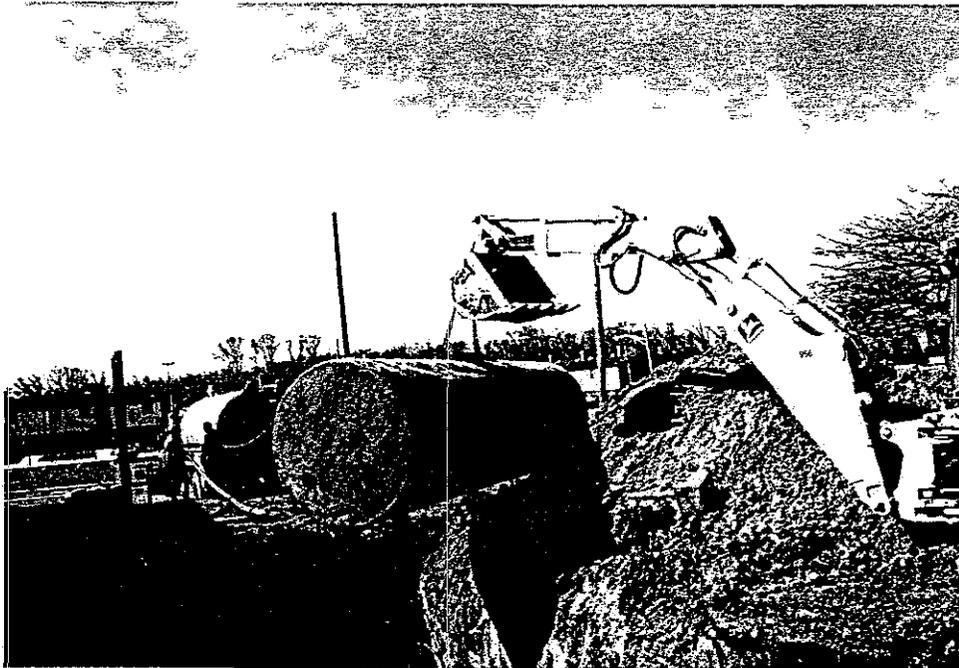


PHOTO #20. Date: April 28, 1995. Photo taken facing south.
Description: Removal of Tank #4.

PHOTO #21

Date: April 28, 1995.

Photo taken facing north.

Description: Tank #4 excavation area. Note the product and vent piping on the east wall and the perched water in the excavation.



PHOTO #22. Date: May 2, 1995. Photo taken facing northeast.

Description: Tank #4 excavation backfilled.

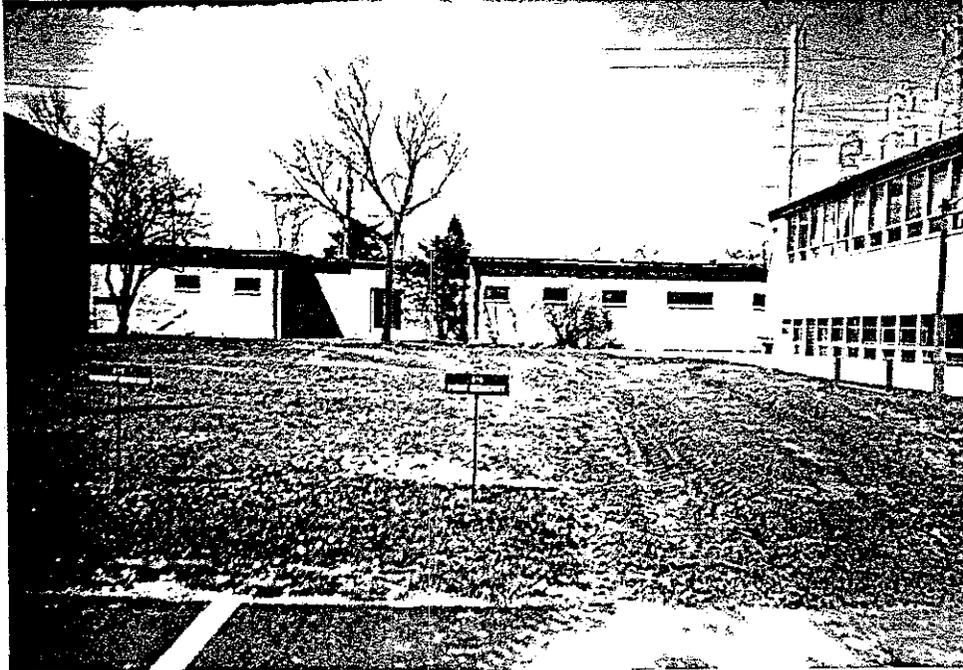


PHOTO #23. Date: May 2, 1995. Photo taken facing north.
Description: Tank #4 excavation backfilled.



PHOTO #24. Date: April 28, 1995. Photo taken facing east.
Description: The cleaned tanks being cut up for scrap metal.



PHOTO #25. Date: May 1, 1995. Photo taken facing west.
Description: ECI loading the scrap metal onto a trailer for recycling at a scrap yard.

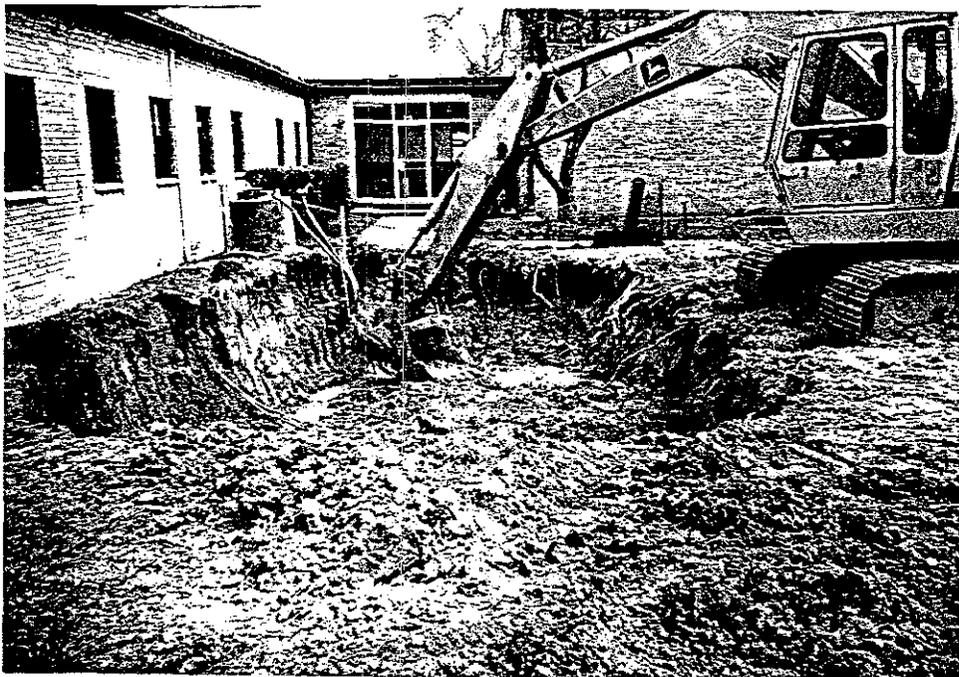


PHOTO #26. Date: May 1, 1995. Photo taken facing east.
Description: ECI excavating contaminated soil from the LUST excavation and removing the remaining vent/product piping.

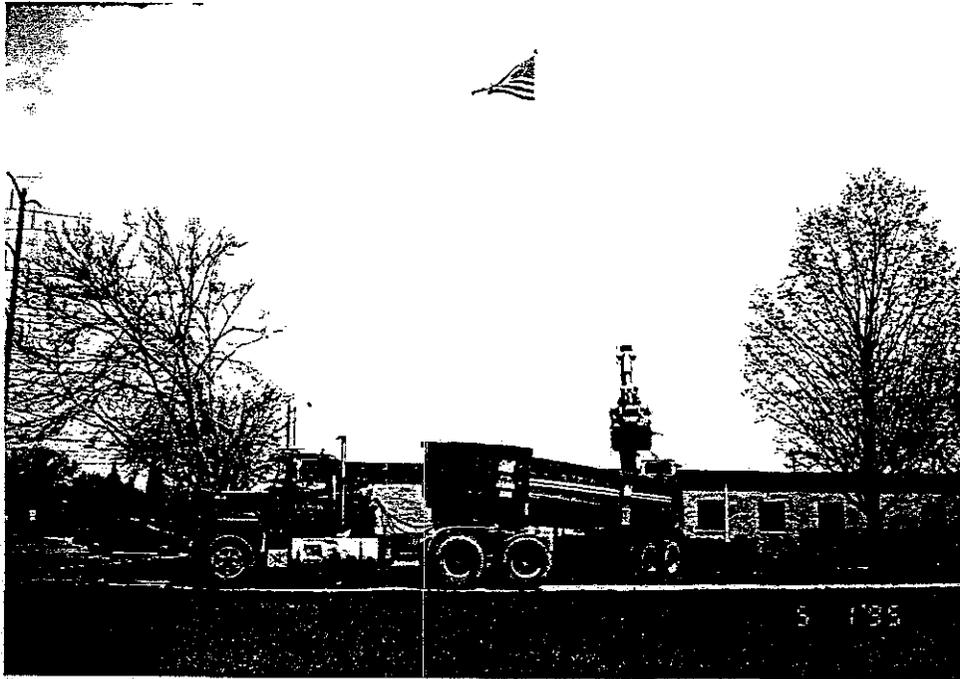


PHOTO #27. Date: May 1, 1995. Photo taken facing north.
Description: ECI loading LUST soil onto a licensed special waste hauler semi truck/trailer (Bass Trucking).



PHOTO #28. Date: May 2, 1995. Photo taken facing west.
Description: Backfilling the LUST excavation with pea gravel.



PHOTO #29. Date: May 2, 1995. Photo taken facing east.
Description: Excavation backfilled with pea gravel.

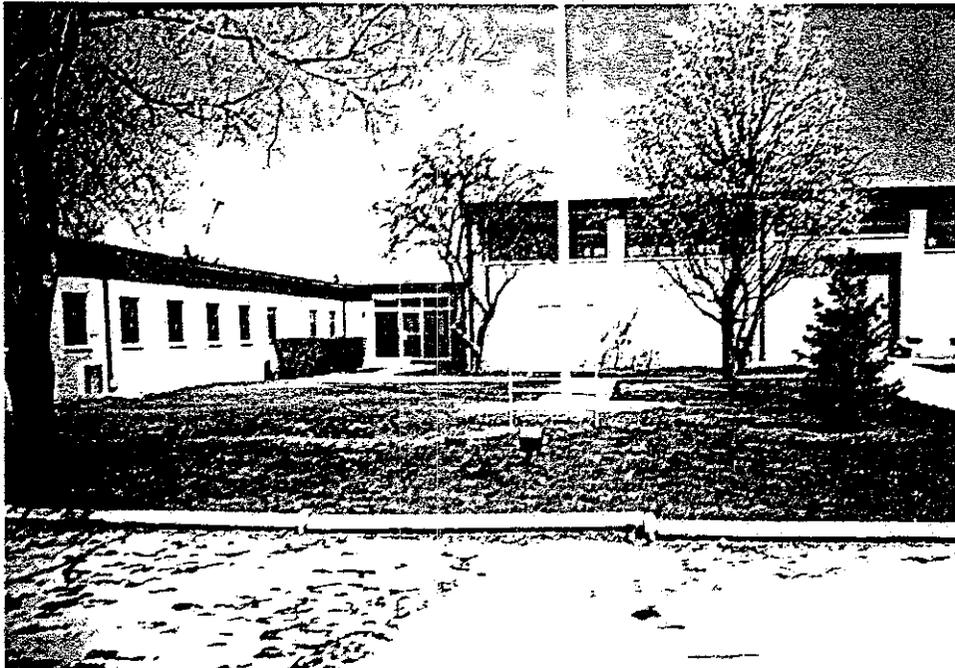


PHOTO #30. Date: May 2, 1995. Photo taken facing east.
Description: The LUST excavation area backfilled to grade with black dirt.

Please refer to the instructions for Filing Notification before completing this form. The information requested here is required by law (Section 3010 of the Resource Conservation and Recovery Act).



Notification of Regulated Waste Activity

United States Environmental Protection Agency

Form 8700-12
(For Official Use Only)

I. Installation's EPA ID Number (Mark 'X' in the appropriate box)

A. First Notification

B. Subsequent Notification
(complete item C)

C. Installation's EPA ID Number

IL0000802496

II. Name of Installation (include company and specific site name)

US ARMY RESERVE CENTER

III. Location of Installation (Physical address not P.O. Box or Route Number)

Street

1721 NORTH MCABEE RD

Street (continued)

City or Town

WAUKEGAN

State

ZIP Code

IL 60085-1499

County Code

County Name

LAKE

IV. Installation Mailing Address (See instructions)

Street or P.O. Box

SAME

City or Town

State

ZIP Code

V. Installation Contact (Person to be contacted regarding waste activities at site)

Name (last)

TORTORICI

(first)

MIKE

Job Title

FACILITY MGR

Phone Number (area code and number)

708-662-1125

VI. Installation Contact Address (See instructions)

A. Contact Address Location Mailing

B. Street or P.O. Box

City or Town

State

ZIP Code

VII. Ownership (See instructions)

A. Name of Installation's Legal Owner

86TH US ARMY RESERVE COMMAND

Street, P.O. Box, or Route Number

7402 W ROOSEVELT RD

City or Town

State

ZIP Code

FOREST PARK

IL 60130-2587

Phone Number (area code and number)

708-209-2597

B. Land Type

F

C. Owner Type

F

D. Change of Owner Indicator

Yes

No

X

(Date Changed)

Month

Day

Year

RECEIVED

ID - For Official Use Only									

VIII. Type of Regulated Waste Activity (Mark or Initial in the appropriate boxes. Refer to instructions.)

A. Hazardous Waste Activity (US)		B. Used Oil Fuel Activities	
1. Generator (See instructions) <input type="checkbox"/> a. Greater than 1000 kg/mo (2,200 lbs.) <input type="checkbox"/> b. 100 to 1000 kg/mo (220 - 2,200 lbs.) <input checked="" type="checkbox"/> c. Less than 100 kg/mo (220 lbs.)	<input type="checkbox"/> 3. Other (Specify in box below) <input type="checkbox"/> 4. Hazardous Waste Fuel <input type="checkbox"/> 5. Underground Injection Control	<input type="checkbox"/> 1. Specification Used Oil Fuel <input type="checkbox"/> a. Generator Marketing to Burner <input type="checkbox"/> b. Other Marketer <input type="checkbox"/> 2. Burner - Indicate device(s) - Type of Combustion Device <input type="checkbox"/> 1. Utility Boiler <input type="checkbox"/> 2. Industrial Boiler <input type="checkbox"/> 3. Industrial Furnace	<input type="checkbox"/> 2. Specification Used Oil Fuel Marketer (or Storage Burner) Who First Claims the Oil Meets the Specification
2. Transporter (Indicate Mode in boxes 1-5 below) <input type="checkbox"/> a. For own waste only <input type="checkbox"/> b. For commercial purposes Mode of Transportation <input type="checkbox"/> 1. Air <input type="checkbox"/> 2. Rail <input type="checkbox"/> 3. Highway <input type="checkbox"/> 4. Water <input type="checkbox"/> 5. Other - specify _____	<input type="checkbox"/> 4. Other Marketers <input type="checkbox"/> 5. Burner - Indicate device(s) - Type of Combustion Device <input type="checkbox"/> 1. Utility Boiler <input type="checkbox"/> 2. Industrial Boiler <input type="checkbox"/> 3. Industrial Furnace	(List specific EPA hazardous waste number(s) for the Toxicity Characteristic contaminant(s))	

IX. Description of Regulated Wastes (Use additional sheets if necessary)

A. Characteristics of Nonlisted Hazardous Wastes: Mark X in the boxes corresponding to the characteristics of nonlisted hazardous wastes your installation handles. (See 40 CFR Parts 261.20-261.24)

1. Ignitable (D001)	2. Corrosive (D002)	3. Reactive (D003)	4. Toxicity Characteristic (D000)	(List specific EPA hazardous waste number(s) for the Toxicity Characteristic contaminant(s))					
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						

B. Listed Hazardous Wastes: (See 40 CFR 261.31 - 33. See instructions if you need to list more than 12 waste codes.)

1	2	3	4	5	6
7	8	9	10	11	12

C. Other Wastes: (State or other wastes requiring an I.D. number. See instructions.)

1	2	3	4	5	6

X. Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment.

Signature <i>Will A.</i>	Name and Official Title (type or print) 86th USARCOM Deputy Chief of Staff, Engineer	Date Signed 10 SEPT 94
-----------------------------	---	---------------------------

XI. Comments

Note: Mail completed form to the appropriate EPA Regional or State Office. (See Section II for addresses.)

FOR AGENCY USE ONLY
GENERATOR I.D.#

TRANS
CODE

TRANS DATE

SEP 01 1994

INITIALS

0971905252
1 10

A
14

1/1
15 20

XXX
21 23

941954

ILLINOIS GENERATOR ID NUMBER REQUEST FORM

Effective July 1, 1991, all requests not submitted on this form will be rejected. Instructions for completing this form are printed on the reverse side of this page.

INFORMATION MUST BE TYPEWRITTEN.

CARD

TYPE GENERATOR NAME:

010 86TH US ARMY RESERVE COMMAND 53
11 13 24

LOCATION (Not P.O. Box):

020 1721 N MCAREE RD 48
11 13 24

CITY: WAUKEGAN 55 STATE: IL 75 76

ZIP: 60085 77 85 COUNTY: LAKE

TELEPHONE: 708 209 2597
86 89 92

CONTACT PERSON: LOUISE ORDERS 96 120

MAILING ADDRESS (If different than above):

030 7402 W ROOSEVELT RD 78
11 13 54

P.O. Box: 79 84 CITY: FOREST PARK 85 104

STATE: IL 105 106 ZIP: 601302582 107 115

WASTE DESTINATION (TSD Facility):

ADDRESS:

CITY, STATE, ZIP:

*TSD Facility's Illinois Site Code Number:

*TSD Facility's Generic Permit Authorization Number:

*MUST BE COMPLETED

Printed on Recycled Paper

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center

LY 1170022- NOLKE
36th US Army Reserve Command
Just

RCV BY: ILLINOIS E. P. A.

8-26-94 7:59PM

2177822583- EMERGENCY RESPONSE: # 3



Illinois Emergency Management Agency

REF

FIELD REPORT

Incident Number 9 4 1 9 5 4

Notify: ILLINOIS EMERGENCY MANAGEMENT AGENCY
1 - 800 / 782 - 7860 or 217 / 782 - 7860

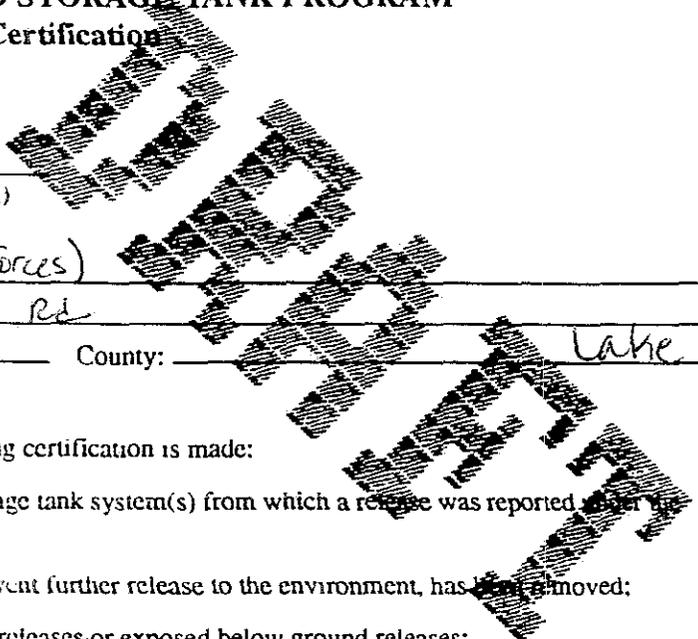
Date: 08 / 26 / 94
Time: 1530
Received by: TW/JMC

1. Caller: LOUISE ORDERS
2. Call back phone#: 708/209-2597
3. Caller represents: 86TH US ARMY RESERVE
COMMAND
4. Type of incident: Fire Leak or Spill
 Explosion Water Involvement
 Gas or Vapor cloud Other
5. Incident Location:
Street 1721 N. MCAREE ROAD
City WAUKEGAN In Near
County LAKE
Milepost _____ RR River Highway
Sec. _____ Twp. _____ Range _____
6. Area Involved: Highway Rail Fixed Facility
 Waterway Air Other
7. Material (s) Involved: HEATING OIL
 Gas Liquid Semi-Solid Solid
 Pesticide Radioactive
CAS #: _____
UN/NA #: _____
Is this a 302 (a) Extremely Hazardous Substance?
 Yes No Unknown
Is this a RCRA Hazardous Waste?
 Yes No Unknown
If Yes, is this a RCRA regulated facility?
 Yes No
8. Container: Truck RR car Drum
 Aboveground tank Pipeline
 Underground tank Other
container size: UNK
9. Amount released: UNK
Rate of release: _____ / min.
10. Cause of release: UNK
11. Estimated spill extent:
 square feet square yards
12. Occurred Date: _____ / _____ / _____ Time: _____
 Discovered Date: 08 / 26 / 94 Time: UNK
13. Emergency units contacted NONE
 Fire _____
 Sheriff _____
 Police _____
 ESDA _____
 Other _____

14. On Scene Contact: _____
On Scene Phone#: _____
 15. No. injured: -0- Haz-mat related
Where taken: _____
 16. Public health risks and/or precautions taken,
including # evacuated: _____
NONE
 17. Assistance needed from State Agencies:
NONE
 18. Containment/cleanup actions and plans:
WILL HIRE CONTRACTOR
 19. Weather: sunny overcast night
 pty. cldy. rain snow
Temp. _____ F wind dir. _____ speed _____ mph.
 20. Responsible Party 86TH US ARMY RESERVE
COMMAND
Contact person: LOUISE ORDERS
Phone # 708/209-2597
Mailing address: 7402 W. ROOSEVELT ROAD
FOREST PARK, IL 60130-2587
- Notifications: 1952-FAXED TO EPA & SFM
- On scene
 Fire _____
 Sheriff _____
 Police _____
 ESDA _____
 Other _____

0971905252-Lake
86th Army Reserve

Illinois Environmental Protection Agency
LEAKING UNDERGROUND STORAGE TANK PROGRAM
20 Day Certification



A. SITE IDENTIFICATION

IEPA Generator Number (10 Digit): _____
(leave blank if unknown)
IEMA #: 94-1954
Site Name: U.S. Army Reserve Center (Armed Forces)
Site Address (Not a P.O. Box): 1721 N. McArze Rd
City: Waukegan IL 60085-1499 County: Lake

B. CERTIFICATION

In accordance with Title 35 Subtitle G, Part 731.162 the following certification is made:

1. I am/we are the owner and operator of the underground storage tank system(s) from which a release was reported under the IEMA incident correctly identified above;
2. That as much of the regulated substance as necessary to prevent further release to the environment, has been removed;
3. That there has been a visual inspection of any aboveground releases or exposed below ground releases;
4. That further migration of the released substance into surrounding soils and groundwater has been prevented;
5. That monitoring and mitigation of any fire and safety hazards posed by vapors or free product that have migrated from the UST excavation zone and entered into substance structures (such as sewers or basements) will continue;
6. That hazards posed by contaminated soils that are excavated or exposed as a result of release confirmation, site investigation, abatement or corrective action activities will be remediated;
7. That if the treatment remedies include treatment or disposal of soils, the owner/operator will comply with 35 Illinois Administrative Code, Subtitle G and other applicable rules and regulations;
8. That measurement for the presence of a release was where contamination is most likely to be present at the UST site;
9. That in selecting sample types, sample locations and measurement methods, the nature of the stored substance, the type of backfill, depth to groundwater and other factors as appropriate for identifying the presence and source of the release has (or will be) considered;
10. That the appropriate procedures will be used to investigate and determine the possible presence of free-product, and begin free-product removal as soon as possible, if applicable, in accordance with Section 731.164;
11. That a summary of the above activities will be provided within 45 days of the confirmation of a release.

RECEIVED
SEP 15 1994

NOTE: At least one copy must contain all original signatures.

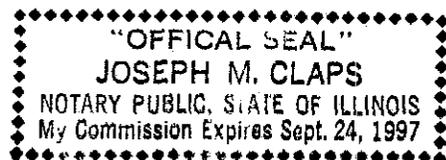
C. SIGNATURES

OWNER	and OPERATOR (if different from Owner)
name: LTC William J. Hawes	name: _____
title: 86th USARCOM Deputy Chief of Staff, Engineer	title: _____
signature: <u>[Signature]</u>	signature: _____
date: <u>10 SEPT 94</u>	date: _____

NOTARY PUBLIC

name: [Signature]
date: 9-10-94
My commission expires 9/27, 19 94

Seal:



The Agency is authorized to require this information under 415 ILCS 5/4 and 21. Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$25,000.00 for each day the failure continues, a fine up to \$50,000.00 and imprisonment up to five years. This form has been approved by the Forms Management Center.

0971905252-Lake
86th Army Reserve Command
LUST

June 13, 1995

Environmental
and remediation
contracting

Illinois Environmental Protection Agency
Division of Land Pollution Control #24
Leaking Underground Storage Tank Section
2200 Churchill Road
Springfield, IL 62794-9276

**RE: LPC 0971905252 - LAKE COUNTY
WAUKEGAN/U.S. ARMED FORCES RESERVE CENTER
1721 McAREE ROAD
LUST INCIDENT NO. 941954
LUST TECHNICAL FILE**

Dear IEPA Representative:

5290 Nimitz
Road
Loves Park
Illinois 61111

On behalf of the Department of the Army, U.S. Army Engineer Center and Fort Leonard Wood, Environmental Contractors of Illinois, Inc. requests a 60 day extension for the 45 Day Report for the above referenced site.

ECI appreciates your attention to this matter.

Sincerely,

ENVIRONMENTAL CONTRACTORS OF ILLINOIS, INC.

P.O. Box 2071
Loves Park
Illinois 61130



Matthew J. Warneke

waukegan.ext

815.654.4726
Fax 815.654.4736

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JUN 15 1995

IEPA/DLPC

SCREENED
JUN 27 1995
DJH

**Title V Determinations
Illinois USARC Facilities**

IL074 (WAUKEGAN, IL)

(Telephone Surveys)

Illinois USARC Facilities

Prepared for:

Fort McCoy
Environmental Management Division
2160 South J Street
Fort McCoy, Wisconsin 54656-5162

Prepared by:

WW Engineering & Science
5555 Glenwood Hills Parkway SE
Grand Rapids, Michigan 49588-0874

November 1995

91119

Prepared by:

Brandon Mieras *mrc*
Brandon Mieras, Air Engineer
Air Quality Services

Reviewed by:

Amy L. Dean
Amy L. Dean, Project Scientist
Air Quality Services

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1	Phone Emission Survey for Illinois USARC Facilities
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3	Potential Lead Emissions from Firing Ranges
4	Potential Emissions for Illinois Phone Survey Facilities
5	Estimated Actual Emissions for Illinois Phone Survey Facilities
6	Estimated Actual Pb Emissions from Firing Ranges

Appendix

Letters to USARCs

EXECUTIVE SUMMARY

WW Engineering & Science, Inc. (WWES) was retained to determine the air emission status of selected US Army Reserve Centers (USARCs) located within the state of Illinois. The USARCs included in this phone survey were identified by Fort McCoy. An air emissions inventory, including emission calculations, was required to determine the emission status. The determination of emission status for each facility was carried out in two phases, as described in Sections 1.0 and 2.0 of this document.

Based upon information supplied by the individual facilities, WWES has concluded that no USARCs included in the phone survey project are required to obtain either a Title V operating permit under Illinois' Clean Air Act Permit Program (CAAPP) or a Federally Enforceable State Operating Permit. Additionally, it appears as though no state air permits are required. It is WWES' opinion that the firing ranges located at the various facilities may potentially require state air permits. However, according to Mr. Bob Bernoteit of Illinois Environmental Protection Agency (IEPA), firing ranges are not considered emission sources, and, therefore, do not require state air permits. This issue is being further pursued.

1.0 PHASE I

Phase I consisted of emission inventory surveys of each facility. These surveys were conducted through telephone communication between WWES representatives, Gail Walker and Wendi DenOuden, and, in general, the facility manager at each USARC. The surveys consisted of general questions identifying significant and applicable emission sources and activities at each facility, identifying unusual facility situations, and notifying appropriate Army personnel.

As instructed by Ft. McCoy Environmental Protection Specialist, Ms. Susan Herzog-Blumer, the following facilities and personnel were contacted for the survey:

- PFC R. Gantner USARC, Bellville, Illinois--Facility Manager Mr. Ted Mosier and Mr. Dave Jennings;
- Bloomington USARC, Bloomington, Illinois--Facility Manager Sgt. Hallendorf, Sgt. Caldwell, and Mr. Dave Jennings;
- Copple USARC, Centralia, Illinois--Facility Manager Mr. Robert Smith and Mr. Dave Jennings;

- North Park USARC, Chicago, Illinois--Facility Manager Mr. Roy McRae and Mr. Gary Cox;
- Chapman USARC, Danville, Illinois--Facility Manager Mr Bill Battle and Mr Dave Jennings;
- Dexter USARC, Decatur, Illinois--Facility Manager Mr. Arthur Demps and Mr. Dave Jennings;
- Modrow USARC, East St. Louis, Illinois--Unit Administrator Mr. Harry Henderson, Facility Engineer Mr. Jim Jones, Facility Engineer Mr. Mark Golav, and Mr. Dave Jennings;
- Joliet LTA Tank Maintenance Bldg., Elwood, Illinois--Facility Manager Mr. Fred Miley, PSYOP Battalion Unit Administrator 1st Sgt. Kevin Greene, and Mr. Gary Cox;
- Walton USARC, Fairfield, Illinois--Facility Manager Charlie Vaughn, Unit Administrator Billie Penland, and Mr. Dave Jennings;
- Forest Park AFRC, Forest Park, Illinois--Facility Manager Mr. Doug Bixler and Mr. Dave Jennings;
- Glenview (Hangar 1) USAR, 1Lt Harold Goettler USARC, ASF 26, Glenview, Illinois--Commanding Officer SFC Findsen, Facility Manager Mr. Anthony Hannel, Mr Dave Jennings, and Ms. Susan Herzog-Blumer;
- Granite City USARC, Granite City, Illinois--Unit Trainer Sgt. Caudell, Mr. Dave Jennings, and Ms. Susan Herzog-Blumer;
- Zega Bros. USARC, Harvey, Illinois--Facility Manager Ms. Angela Rhodehouse and Mr. Gary Cox;
- Vietnam Veterans Memorial, Homewood, Illinois--Facility Manager Mr Norm Richter and Mr. Gary Cox;
- Louis Joliet AFRC, Joliet, Illinois--Facility Manager Mr. Mike Mulligan and Mr Gary Cox;
- Joliet USARC, Joliet, Illinois--Facility Manager Mr. Nathan Carroll and Mr. Gary Cox;
- Stefanich USARC, Stefanich AFRC, Kankakee, Illinois--Facility Manager Mr. Ben Gerdes;
- Wilson USARC, Marion, Illinois--Facility Manager Mr. Charlie Vaughn and Mr. Dave Jennings;

- Veterans Memorial USARC, Peru, Illinois--Facility Manager Mr. Frank Suarez and Mr Gary Cox;
- Lincoln-Douglas USARC, Quincy, Illinois--Facility Manager Mr. Wilbur Knotts and Mr. Dave Jennings;
- Fort Dearborn USARC, Rosemont, Illinois--Ms. Julie Hallman and Mr. Gary Cox ;
- Savanna Army Depot USARC, Savanna, Illinois--Facility Manager Ms. Barbara Homan, Safety Manager Ms. Bridget Cottral, Environmental Manager Mr. John Clark, Mr. Dave Jennings, and Ms. Susan Herzog-Blumer;
- ASF #44, Scott AFB, Illinois--Facility Manager Ms. Cherie Toebben, Mr. Dave Jennings, and Ms. Susan Herzog-Blumer;
- O'Donnell USARC, Springfield, Illinois--Facility Manager MSG Park and Mr. Dave Jennings;
- Stephens USARC, Urbana, Illinois--Facility Manager Mr. Paul Reynolds and Mr. Dave Jennings;
- Waukegan AFRC, Waukegan, Illinois--Facility Manager Mr. Mike Tortorici, Sgt. 1st Class Southern, and Mr. Gary Cox; and
- 1Lt. Albert J. Ellison USARC, Wood River, Illinois--Facility Manager Mr. Gary Miller and Mr. Dave Jennings.

Mr. Dave Jennings is the Environmental Manager for all USARCs under the 86th and 88th Command located in the state of Illinois. Mr. Jennings assisted with providing additional information regarding facility activities, combustion source ratings, and facility contact personnel. Mr. Gary Cox, the Maintenance Supervisor at the Schulstad USARC in Arlington Heights, Illinois, provided combustion source ratings for various sources located at the Illinois USARC facilities. Mr. Jennings and/or Mr. Cox were contacted concerning combustion source (boilers, water heaters, generators, etc.) rating information in instances where this information was not readily available from Army personnel at the USARC facilities.

Based on information resulting from the survey, WWES determined that the three Glenview Facilities, Granite City USARC, Savanna Army Depot USARC, and the ASF #44 at Scott AFB presented difficulty in identifying emission units, operations, and activities associated with the Army Reserves at each facility. It is WWES' understanding that, in each case, the Army Reserves lease only a small portion of the entire facility for their operations. Obtaining information relevant only to *Army Reserve* operations was nearly impossible. Consequently,

additional guidance was sought from Mr. Jennings and Ms. Herzog-Blumer. WWES was instructed to remove the four above-mentioned facilities from the initial list of USARCs requiring the emission inventory. The removal was due to either closure of a facility or the involvement of another contracted firm, therefore, making it unnecessary for WWES to pursue the matter further. *The remaining facilities will hereafter be referred to as the modified list.* The remaining facilities' associated emission units, activities, and operations were identified and applicable emission rates calculated for each. This information can be found in Section 2.0.

Upon the completion of each survey and subsequent emission calculations, a letter was sent to each facility manager summarizing the results, applicable requirements, and the status of each particular site. Copies of each letter have been included in this report as Appendix A.

2.0 PHASE II

Phase II consisted of developing facility descriptions, calculating potential and estimated actual emissions, determining emission status, and investigating any associated permitting requirements pertaining to each facility.

2.1 FACILITY DESCRIPTIONS

The facilities in the modified list are used primarily for administrative activities and reserve officer training. Some "very minor" vehicle maintenance is performed at the majority of the facilities. "Very minor" vehicle maintenance was described by Army Reserve personnel as being "mainly parts replacement with possible, but infrequent, oil changes". Based on information gathered from the Phase I survey, none of the facilities on the list were determined to be either Operation Maintenance Support (OMS) or Area Maintenance Support Activities (AMSA). Both OMS and AMSA facilities provide significantly more maintenance services than any of the facilities which are the subjects of the telephone survey. There are ten facilities on this modified list at which a firing range is either currently in operation or has the potential to be operated. A summary list of possible emission sources identified at each location during Phase I are provided in Table 1.

2.2 GENERAL PERMITTING REQUIREMENTS

Potential emissions from combustion sources and firing ranges were calculated for each facility in the modified list. All other possible emission sources were determined to be fugitive in nature and, therefore, emissions were not calculated for these units, operations, or

activities. Although fugitive emissions of Hazardous Air Pollutants (HAPs) are required to be included in facility potential emission totals, WWES did not quantify and include these in the emission inventory. (Possible sources of fugitive HAP emissions at these facilities may include janitorial cleaning and the very minor vehicle maintenance.) Fugitive HAP emissions from these facilities are assumed to be negligible (based upon emission quantifications performed for larger facilities) and inclusion of these HAPs in the facility totals is not expected to affect the source emission status.

As defined in the Clean Air Act Amendments of 1990 (CAAA) and the Illinois CAAPP, potential emissions from an emission source must be based upon *continual operation* of the source (8,760 hours per year) at its *maximum rated capacity* unless federally enforceable conditions are accepted to limit operation. This is true even for a source that may be operated only a few times a year or not operated at all. This approach was followed for all point sources (combustion and firing range sources) at each facility. Once potential emissions were calculated for sources at each facility, the emissions of the various criteria pollutants and HAPs were totaled. A facility is classified as a major source and subject to Title V permitting requirements under the CAAPP if the *potential* emissions exceed any one of the major source thresholds. The major source thresholds are as follows, with information in brackets representing nonattainment area thresholds:

- 100 tons per year (tpy) of nitrogen oxides (NO_x) [25 tpy (IEPA is currently petitioning US EPA to have this increased to 100 tpy)];
- 100 tpy of volatile organic material (VOM) [25 tpy];
- 100 tpy of carbon monoxide (CO);
- 100 tpy of sulfur dioxide (SO₂);
- 100 tpy of particulate matter that is less than or equal to 10 microns in diameter (PM-10); and
- 10 tpy of a single HAP or 25 tpy of cumulative HAPs.

The following facilities (along with the respective county in which they are located) are classified as being in nonattainment areas:

- North Park USARC--Cook County
- Joliet LTA Tank Maintenance Building--Will County
- Forest Park AFRC--Cook County
- Zega Bros. USARC--Cook County

- Vietnam Veterans Memorial--Cook County
- Louis Joliet AFRC--Will County
- Joliet USARC--Will County
- Fort Dearborn USARC--Cook County
- Waukegan USARC--Lake County

2.3 DETERMINATION OF SOURCE EMISSION STATUS

2.3.1 DETERMINATION OF POTENTIAL-TO-EMIT

2.3.1.1 Combustion Sources

All combustion sources (such as boilers, furnaces, water heaters, etc.) were considered point sources of emissions. Potential to emit (PTE) calculations were made for all combustion sources for NO_x, VOM, CO, SO₂, and PM-10 based on emission factors obtained from US EPA's *Compilation of Air Pollution Emission Factors* (AP-42). These emission factors are included as Table 2. (For the purposes of estimating PM-10 emissions, it was conservatively assumed that 100% of all particulate emissions are PM-10.) Assumptions were made regarding source input ratings in instances where information was not available through Army Reserve personnel. In cases where the input rating was unavailable, it was assumed that a source's input rating was equivalent to the maximum input rating found at other USARC facilities for similar sources. This approach resulted in conservative emission estimates for combustion sources with unknown ratings. All PTE calculations for combustion sources were based on maximum operating capacity and 8,760 hours of operation per year.

2.3.1.2 Firing Ranges

Although it appears as though IEPA does not consider firing ranges to be sources of emissions, WWES did include these firing ranges in the emission inventory. (Refer to Section 2.5 for further information on this IEPA policy and WWES's position.)

Potential lead (Pb) emission calculations were made for all potentially usable firing ranges based on emission factors obtained from AP-42. All PTE calculations were based on 8,760 hours of operation. According to ARCOM personnel, the average number of firing stations available per range is five. The five-station average was used in calculating emissions from the firing ranges. This approach resulted in conservative emission estimates for firing range

sources. See Table 3 for more information regarding firing range potential emission calculations.

2.3.1.3 Potential Emission Totals and Source Status

Facility totals for the potential emissions are located in Table 4. As can be seen from these totals, potential emissions for all facilities are below major source thresholds for all pollutants.

The paint spray guns that are located at some of the facilities have not been included in the potential emission calculations, since these facilities are not set up to use the spray guns. (It is WWES's understanding that these spray guns have never been used.) *WWES recommends that these spray guns be removed from the facilities.*

2.3.2 DETERMINATION OF ESTIMATED ACTUAL EMISSIONS

2.3.2.1 Combustion Sources

Estimated actual NO_x, VOM, CO, SO₂, and PM-10 emissions were calculated for all natural gas-fired combustion sources. WWES estimated the combustion sources to operate eight out of twelve months per year and at 75% capacity. In addition, AP-42 emission factors were used to estimate the actual emissions. See Table 5 for these calculations.

2.3.2.2 Firing Ranges

Estimated actual Pb emissions were calculated for all firing ranges currently in use. These emissions were based upon an operating schedule of six hours per day, four days per month, twelve months per year resulting in a total of 288 hours per year. This estimated operating schedule was provided by Army Reserve personnel. AP-42 emission factors were used to estimate the actual emissions. A firing range with five stations was used as a conservative estimate for calculating these emissions. See Table 6 for these calculations.

2.3.2.3 Estimated Actual Emission Totals and Source Status

Facility totals for the estimated actual emissions can be found in Table 5. As can be seen from these totals, the estimated actual emissions are well below all major source thresholds.

2.4 TITLE V PERMITTING STRATEGY FOR FACILITY

2.4.1 TYPE OF PERMIT REQUIRED

As shown in Sections 3.3.1.3 and 3.32.3, all listed facilities have potential and estimated actual emissions below all major source thresholds. Based on potential emission calculations, WWES determined that not one facility on the modified list can be classified as a major source. Therefore, the facilities are not subject to Title V permitting requirements under the CAAPP. Furthermore, since potential emissions are below major source thresholds, there is no need to obtain a FESOP to restrict potential emissions below these thresholds.

2.4.2 CURRENT REQUIREMENTS

At a minimum, the facilities should maintain accurate fuel consumption and material usage records on a monthly and annual basis. It is not expected that the facilities will be required to track hours of operation, but recording this information may be useful.

Even though some of the facilities possess paint spray guns in the maintenance and storage buildings, they were not included in the potential emission calculations (the facilities are not set up for use of these guns and they have never been used). *It is WWES' recommendation that the spray guns be removed from the sites.*

2.4.3 FUTURE REQUIREMENTS

Prior to any significant modifications to existing sources or addition of new sources (including increases in maintenance operations), it should be determined if a facility's emission status would be changed and if any possible permitting requirements are associated with these changes. (Modifications or additions of new equipment may also require construction and operation permitting at the state level.) Modifications and/or new permits should be applied for and obtained from IEPA before making changes at any facility.

2.5 STATE PERMITTING REQUIREMENTS

It appears as though none of the facilities is subject to state permitting requirements. The only exception to this, however, *may* be the facilities with firing ranges. IEPA does not currently require permits for firing ranges because they are not considered emission sources according to Mr. Bernoteit of IEPA. WWES is further pursuing this issue during the application review period for another base, which is not part of this telephone emission inventory project.

Table 1
Phone Emission Survey for Illinois USARC Facilities

Facility Name	Facility Location	Natural Gas Heat	A/C	Water Heater	Heavy Equipment	Painting	Chemical Storage	Firing Range	Welding	Generator	Parts Washer	Metal Works	Misc.
PFC R. Gantner	Belleville	1.6 MMBtu/hr	yes	yes	trucks	brush	vehicle/paint		yes	3 @ 3kw	yes		
Bloomington	Bloomington	1.1 MMBtu/hr	yes	yes	trucks	brush	paint	usable [2]		3 kw			
North Park	Bryn Mawr	1.5 MMBtu/hr	yes	yes	trucks	brush	vehicle		yes	1.5-3kw			
Coppie	Centralia	3.0 MMBtu/hr	yes	yes									
Chapman	Danville	2.1 MMBtu/hr	yes	yes	brush	brush	vehicle	usable [2]		1-5kw			
Dexter	Decatur	1.9 MMBtu/hr	yes	yes	brush	brush	yes			3kw			
Modrow	E. St. Louis	2.0 MMBtu/hr	yes	yes	brush	brush	vehicle/paint			3-10 kw			
Walton	Fairfield	0.6 MMBtu/hr	yes	yes	trucks	brush	vehicle						
Forest Park	Forest Park	8.4 MMBtu/hr	yes	yes	trucks	brush				<10 kw			
Zega Bros.	Harvey	1.5 MMBtu/hr	yes	yes	yes	brush	vehicle	usable [3]	yes	1.5-15 kw	yes		
Vietnam Vet. Mem.	Homewood	3.3 MMBtu/hr	yes	yes	trucks	brush	vehicle			3-15 kw			
Joliet LTA [5]	Elwood	<10 MMBtu/hr	yes	yes									
Joliet USARC	Joliet	Electric	yes	yes	trucks	brush	vehicle		yes	yes	yes		
Joliet AFRC	Joliet	7.6 MMBtu/hr	yes	yes	brush	brush	vehicle	usable [3]	yes	yes			
Stefanich	Kankakee	<10 MMBtu/hr	yes	yes	yes	brush [1]	vehicle/paint	usable [3]	yes		on order	ordered	UST
Wilson	Marion	1.6 MMBtu/hr	yes	yes	trucks	brush	paint	in use		5kw			
Veterans Mem.	Peru	2.2 MMBtu/hr	yes	yes	brush	brush	vehicle	usable [2]					
Lincoln-Douglas	Quincy	2.1 MMBtu/hr	yes	yes			vehicle						
Ft. Dearborn	Rosemont	1.8 MMBtu/hr	yes	yes	trucks		vehicle	usable [3]		3-5kw			
O'Donnell	Springfield	1.6 MMBtu/hr	yes	yes	trucks	brush [1]	vehicle/paint	in use		3-5kw	yes		
Stephens [6]	Urbana	0.9 MMBtu/hr	yes	elec	trucks	brush	vehicle/paint	in use	yes	comb. eng.	yes	grinding	Oil UST
		0.2 MMBtu/hr											
Waukegan	Waukegan	2.4 MMBtu/hr	yes	yes		brush	paint						
Ill. A.J. Ellison	Wood River	3.3 MMBtu/hr	yes	yes	trucks	brush [1]	vehicle/paint		yes	5-60 kw	yes	degrease	dryers[4]

[1] This facility has a spray gun as part of a tool set, however, the facility does not have the capability to use it.

[2] The firing range is usable; however, it is closed pending OSHA approval.

[3] The firing range is usable, but it is not currently in use. The facility is used for storage.

[4] These are for drying clothing.

[5] The PSYOP Battalion from Arlington Heights will be moving here. At the time of the survey, no operations were being performed here.

[6] This facility utilizes a No. 1 Fuel Oil boiler for comfort heating.

Table 2
Applicable AP-42 Emission Factors

Source	Rating	CO	NOx	PM	SO2	VOC	Units	Source
Natural Gas Combustion	0.3-10 MMBtu/hr	21 lb/MMcf	100 lb/MMcf	12 lb/MMcf	0.6 lb/MMcf	8 lb/MMcf		AP-42 Table 1.4-2, 1/95
No. 1 Fuel Oil Combustion	Commercial	5 lb/10 ³ gal	20 lb/10 ³ gal	2 lb/10 ³ gal	0.26 lb/10 ³ gal	0.2 lb/MMcf		AP-42 Table 1.3-2, 1/95

Source	Rating	Pb	Units	Source
Explosives Detonation-Small Arms	Not Applicable	>6 mg/158 gr		AP-42 Table 13.3-1

**Table 3
Potential Lead Emissions From Firing Ranges**

No. of Stations	Maximum Usage[1] (rounds/yr)	Maximum Possible Lead Content (mg/round)	Maximum Possible Lead Emissions (lbs/yr)	% of Lead Emitted [3] (%)	Lead Emissions (tpy)
1	7.88E+06	6	104	50%	0.03
2	1.58E+07	6	209	50%	0.05
3	2.37E+07	6	313	50%	0.08
4	3.15E+07	6	417	50%	0.10
5	3.94E+07	6	521	50%	0.13

- [1] A firing rate of 30 rounds per minute was provided by USARCOM personnel. Usage information was estimated assuming that for every minute of firing time used, an equal minute would be used for reloading the gun. Therefore, 50% of an hour is used for reloading. Potential range usage was estimated to be 24 hours/day, 365 days/year = 8760 hr/year.
- [2] Based on information provided by ARCOM personnel, the caliber ratings of guns used in the firing range are 0.22, 0.45, and 9mm. Average grain weight for each caliber type are as follows:
0.22 = 35 grains, 0.45 = 150 grains, 9mm = 120 grains.
To determine the maximum lead content per bullet type, the 0.45 rating was used as a conservative estimate. Information regarding lead content in small arms was found in AP-42, Table 13.3-1.
It is suggested that > 6 mg of lead can be found in a 158 grain projectile. A lead content of 6 mg was estimated for the 0.45 caliber bullet used in the calculation of lead emissions from firing ranges.
- [3] It has been assumed that 50% of the lead emissions remain in the confines of the range. The other 50% are conservatively assumed to have escaped through the filtration and ventilation system.

Table 4
Potential Emissions for Illinois Phone Survey Facilities

Location	Total Source Input Rating (MMBtu/hr)	Potential Emissions (tpy)					
		CO	NO _x	PM	SO ₂	VOM	HAP[4]
Belleville	1.64	0.14	0.68	0.08	0.00	0.05	
Bloomington	1.13	0.10	0.47	0.06	0.00	0.04	0.43
Centralia	2.96	0.26	1.24	0.15	0.01	0.10	
Bryn Mawr [1]	1.50	0.13	0.63	0.08	0.00	0.05	
Danville	2.12	0.19	0.88	0.11	0.01	0.07	0.43
Decatur	1.93	0.17	0.80	0.10	0.00	0.06	
E. St.Louis	2.03	0.18	0.85	0.10	0.01	0.07	
Fairfield	0.64	0.06	0.27	0.03	0.00	0.02	
Forest Park	8.37	0.73	3.49	0.42	0.02	0.28	
Harvey [1]	1.45	0.13	0.60	0.07	0.00	0.05	0.43
Homewood [1]	3.33	0.29	1.39	0.17	0.01	0.11	
JolietMcD St. [1]	7.58	0.66	3.16	0.38	0.02	0.25	0.43
Joliet LTA [2]	10.00	0.88	4.17	0.50	0.03	0.33	
Kankakee [2]	10.00	0.88	4.17	0.50	0.03	0.33	0.43
Marion	1.56	0.14	0.65	0.08	0.00	0.05	0.43
Peru [1]	2.13	0.19	0.89	0.11	0.01	0.07	0.43
Quincy	2.14	0.19	0.89	0.11	0.01	0.07	
Rosemont [1]	1.84	0.16	0.77	0.09	0.00	0.06	0.43
Springfield	1.57	0.14	0.66	0.08	0.00	0.05	0.43
Urbana [3]	0.90	0.14	0.56	0.06	0.01	0.01	0.43
Urbana	0.16	0.01	0.07	0.01	0.00	0.01	
Waukeegan [1]	2.40	0.21	1.00	0.12	0.01	0.08	
Wood River	1.81	0.16	0.75	0.09	0.00	0.06	

- [1] The heat source input ratings were conservatively determined by increasing the output ratings provided by ARCOM Engineering personnel at Arlington Heights) by 25%.
- [2] Heat source input ratings were not available for this facility. The total rating for the facility was conservatively estimated to be 10.0 MMBtu/hr.
- [3] The fuel used for this boiler is No. 1 Fuel Oil.
- [4] HAPs were determined from lead emissions from the firing ranges located at these facilities.

Table 5
Estimated Actual Emissions for Illinois Phone Survey Facilities

Location	Total Source Input Rating (MMBtu/hr)	Estimated Actual Emissions (tpy)					
		CO	NOx	PM	SO2	VOM	HAP[4]
Belleville	1.64	0.07	0.34	0.04	0.00	0.03	
Bloomington	1.13	0.05	0.24	0.03	0.00	0.02	0.01
Centralia	2.96	0.13	0.62	0.07	0.00	0.05	
Bryn Mawr [1]	1.50	0.07	0.31	0.04	0.00	0.03	
Danville	2.12	0.09	0.44	0.05	0.00	0.04	0.01
Decatur	1.93	0.08	0.40	0.05	0.00	0.03	
E. St.Louis	2.03	0.09	0.42	0.05	0.00	0.03	
Fairfield	0.64	0.03	0.13	0.02	0.00	0.01	
Forest Park	8.37	0.37	1.75	0.21	0.01	0.14	
Harvey [1]	1.45	0.06	0.30	0.04	0.00	0.02	0.01
Homewood [1]	3.33	0.15	0.69	0.08	0.00	0.06	
JolietMcD St. [1]	7.58	0.33	1.58	0.19	0.01	0.13	0.01
Joliet LTA [2]	10.00	0.44	2.09	0.25	0.01	0.17	
Kankakee [2]	10.00	0.44	2.09	0.25	0.01	0.17	0.01
Marion	1.56	0.07	0.33	0.04	0.00	0.03	0.01
Peru [1]	2.13	0.09	0.44	0.05	0.00	0.04	0.01
Quincy	2.14	0.09	0.45	0.05	0.00	0.04	
Rosemont [1]	1.84	0.08	0.38	0.05	0.00	0.03	0.01
Springfield	1.57	0.07	0.33	0.04	0.00	0.03	0.01
Urbana [3]	0.90	0.07	0.28	0.03	0.00	0.00	0.01
Urbana	0.16	0.01	0.03	0.00	0.00	0.00	
Waukeegan [1]	2.40	0.11	0.50	0.06	0.00	0.04	
Wood River	1.81	0.08	0.38	0.05	0.00	0.03	

- [1] The heat source input ratings were conservatively determined by increasing the output ratings (provided by ARCOM Engineering Personnel at Arlington Heights) by 25%.
- [2] Heat source input ratings were not available for this facility. The total rating for the facility was conservatively estimated to be <10 MMBtu/hr.
- [3] The fuel used for this boiler is #1 oil.
- [4] HAPs were determined from lead emissions from the firing ranges located at these facilities.

Table 6
Estimated Actual Pb Emissions From Firing Ranges

No. of Stations	Maximum Usage[1] (rounds/yr)	Maximum Possible Lead Content (mg/round)	Maximum Possible Lead Emissions (lbs/yr)	% of Lead Emitted (%)	Lead Emissions (tpy)
1	2.59E+05	6	3	50%	0.001
2	5.18E+05	6	7	50%	0.002
3	7.78E+05	6	10	50%	0.003
4	1.04E+06	6	14	50%	0.003
5	1.30E+06	6	17	50%	0.004

- [1] A firing rate of 30 rounds per minute was provided by USARCOM personnel. Usage information was estimated assuming that for every minute of firing time used, an equal minute would be used for reloading the gun. Therefore, 50% of an hour is used for reloading. Actual range usage was estimated to be 6hrs/day, 4 days/month, 12 months/yr = 288 hours/year.
- [2] Based on information provided by ARCOM personnel, the caliber ratings of guns used in the firing range are 0.22, 0.45, and 9mm. Average grain weight for each caliber type are as follows: 0.22 = 35 grains, 0.45 = 150 grains, 9mm = 120 grains. To determine the max. lead content per bullet type, the 0.45 rating was used as a conservative estimate. Information regarding lead content in small arms was found in AP-42, Table 13.3-1. It is suggested that > 6 mg of lead can be found in a 158 grain projectile. A lead content of 6 mg was estimated for the 0.45 caliber bullet used in the calculation of lead emissions from firing ranges.
- [3] It has been assumed that 50% of the lead emissions remain in the confines of the range. The other 50% are conservatively assumed to have escaped through the filtration and ventilation system.



WW Engineering & Science
A Summit Company

November 6, 1995

Commander 88th Regional Support Command
Customer Support Team
ATTN: AFRC-CMN-EN-IL (Jennings)
7402 West Roosevelt Road
Forest Park, Illinois 60130-2587

Dear Mr Jennings:

WW Engineering & Science, Inc. (WWES) 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 Illinois. An air emission inventory was necessary to determine whether the Waukeegan AFRC is required to obtain either a Title V operating permit under Illinois' Clean Air Act Program (CAAPP) or a Federally Enforceable State Operating Permit (FESOP). Additionally, the emission inventory was used to determine if any state air permits are required.

On March 23, and April 5, 1995, WWES representative, Gail Walker, contacted the Waukeegan AFRC facility manager, Mr. Mike Tortorici and Sergeant 1st Class Southern. These contacts were made via telephone calls. The telephone survey was conducted to determine the possible sources of air emissions existing at the Waukeegan AFRC.

It is WWES' understanding that the Waukeegan AFRC is a government-owned facility administered and controlled by the 88th Regional Support Command. The Waukeegan AFRC is located at 1721 North McAree Rd., Waukeegan, IL, 60085-1499. The facility is comprised of two buildings. One building is being utilized for administrative and training activities, and the other for storage. (The Marine Reserves are currently occupying a portion of this facility) Based on the survey conducted, the following possible emission sources were identified:

- Two-natural gas boilers each with a 1.200 MMBtu/hr rating;
(This information was provided by Mr. Gary Cox, Maintenance Supervisor of the Schulstad USARC, Arlington Heights, IL)

Commander 88th Regional Support Command

Mr. Jennings

November 6, 1995

Page 2

WWES has completed the emission inventory based upon information provided by the facility. Based upon the outcome of this study, it appears as though potential emissions are below applicable major source thresholds. Therefore, the Waukeegan AFRC is not required to obtain either a Title V operating permit or a FESOP. Additionally, it appears as though no state air permits are required.

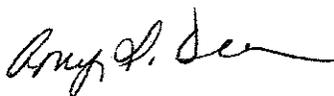
Prior to any significant modifications to existing emission sources or addition of new sources, Waukeegan AFRC should determine how such changes may affect permitting requirements. Waukeegan AFRC should also maintain records of fuel usage.

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

Sincerely,

WW ENGINEERING & SCIENCE

Air Quality Services



Amy L. Dean

Project Air Quality Scientist

ENCLOSURE 5

ENVIRONMENTAL COMPLIANCE ASSESSMENT

12074 - Waukegan, IL

Completed - 6 Dec 96

Received - 28 MAR 97

INSTALLATION SCREEN

*FFID: IL-2104IL074
*Installation Name: WAUKEGAN AFRC
Installation Category: R
MACOM: USARC

MUSARC:
BASOPS ARCOM: 88TH RSC
Support Installation: FORT MCCOY
Facility / Activity Type: 1) RM 2) 3) 4) 5)

EPA Region: 5
Congressional District:
Address: 1721 NORTH MCAREE ROAD

City: WAUKEGAN
State: IL
Country: USA
Zip Code: 60085-1499

ASSESSMENT SCREEN

*Fiscal Year: 1997 *Assessment Date (MM/DD/YYYY): 12/06/1996
*Assessment Type: E
*Manual Used: T

Manual Supplement Used:

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

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

*Assessor Name: FT SHERIDAN FE TEAM
Point of Contact: MAJ RON PRICHARD

Address: 3155 BLACKHAWK DRIVE SUITE 024

City: FT SHERIDAN
State: IL
Zip Code: 60037-1289
Phone: () -

For Contract ECAS

Contract Number:
Delivery Order Number:
Contracting Office:

TABLE 1-1
SUMMARY OF FINDINGS

INSTALLATION: WAUKEGAN AFRC
FFID: IL-2104IL074

Fiscal Year: 1997

SECTION NO. TITLE	REGULATORY			MANAGEMENT			TOTAL
	1	2	HS	POS	3	HS	
A Air Emissions	0	0	0	0	0	0	0
C Cultural Resources	0	0	0	0	0	0	0
HM Hazardous Materials	0	0	0	0	0	0	0
HW Hazardous Waste	0	0	0	0	0	0	0
NR Natural Resource	0	0	0	0	0	0	0
O1 Environmental Impacts	0	0	0	0	0	0	0
O2 Environmental Noise	0	0	0	0	1	0	1
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	1	0	1
PM Pesticide	0	0	0	0	0	0	0
PO POL	0	0	0	0	0	0	0
SO Solid Waste	0	0	0	0	0	0	0
ST Storage Tanks	0	0	0	0	0	0	0
T1 PCB	0	0	0	0	0	0	0
T2 Asbestos	0	0	0	0	0	0	0
T3 Radon	0	0	0	0	0	0	0
T4 Lead Based Paint	0	0	0	0	0	0	0
WA Wastewater	0	0	0	0	1	0	1
WQ Water Quality	0	0	0	0	0	0	0
TOTALS	0	0	0	0	3	0	3

Data File Name Prefix: IL074
Date Summary Report Produced: 03/02/97

O2.1.3.R #1 III ARMY/DOD FINDING

MANUAL QUESTION NUMBER: O2-001-003-R

FINDING ID: O2IL074

FINDING CATEGORY: CLASS III

FINDING TYPE: Negative

EXISTING NOV: NO

LOCATION:

IFS FACILITY NUMBER:

FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: No documentation of an initial ICUZ study.
Facility is bordered on two sides by residential areas.

CRITERIA: Facilities are required to conduct an ICUZ Study as a part of the ICUZ Program to identify and control noise (AR 200-1, para 7-2c, 7-2d, and 7-5a).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): Prepare a single page ICUZ statement of negligible impact (AR 200-1, para 7-5g and i(3)) (Based on current usage).

STATUS OF CORRECTION:

INSTALLATION RESPONSE:

CORRECTIVE ACTION DESCRIPTION: _____

DATE CORRECTIVE ACTION COMPLETED: _____

ESTIMATED DATE CORRECTIVE ACTION TO BE COMPLETED: _____

1383 PROJECT # (IF APPLICABLE): _____

POC: _____

PHONE NUMBER: _____

05.1.7.R #1 III GMP FINDING

MANUAL QUESTION NUMBER: 05-001-007-R

FINDING ID: 05IL074

FINDING CATEGORY: CLASS III

FINDING TYPE: Negative

EXISTING NOV: NO

LOCATION:

IFS FACILITY NUMBER:

FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: No documentation of an internal assessment performed since the last external assessment.

CRITERIA: Facility personnel involved in environmental affairs should receive the necessary environmental training (MP).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): Perform an internal assessment between this assessment and the next external assessment.

STATUS OF CORRECTION:

INSTALLATION RESPONSE:

CORRECTIVE ACTION DESCRIPTION: _____

DATE CORRECTIVE ACTION COMPLETED: _____

ESTIMATED DATE CORRECTIVE ACTION TO BE COMPLETED: _____

1383 PROJECT # (IF APPLICABLE): _____

POC: _____

PHONE NUMBER: _____

WA.10.4 #1 III GMP FINDING

MANUAL QUESTION NUMBER: WA-010-004

FINDING ID: WAIL074

FINDING CATEGORY: CLASS III

FINDING TYPE: Negative

EXISTING NOV: NO

LOCATION: WASH RACK

IFS FACILITY NUMBER:

FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: Oil/water separator at wash rack is full of trash and does not appear to be functioning properly.

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

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): Clean oil/water separator and verify proper operation.

STATUS OF CORRECTION:

INSTALLATION RESPONSE:

CORRECTIVE ACTION DESCRIPTION: _____

DATE CORRECTIVE ACTION COMPLETED: _____

ESTIMATED DATE CORRECTIVE ACTION TO BE COMPLETED: _____

1383 PROJECT # (IF APPLICABLE): _____

POC: _____

PHONE NUMBER: _____

AFRC-CMN-EN (200-1)

10 February 1998

MEMORANDUM : Engineer, 88th Regional Support Command**SUBJECT**: Internal Environmental Assessment of Waukegen AFRC (IL074)
Facility Manager: Mr. Lou Procter

1. Ms. Reints completed an internal environmental assessment of Waukegen AFRC on 23 January 1998. The former facility manager, Mr. Mike Tortorisi, accompanied Ms. Reints during the assessment. The facility is home for about 80 drilling reservists and 3 full-time civilian employees. The units at this center are the 6th Brigade (Professional Development) and Delta 339th Combat Indoctrination both of the 84th DIV-IT.
2. Army Regulation 200-1, chapter 12 paragraph 8b requires that USAR facilities receive an internal assessment at the midpoint of the external assessment 4-year cycle. However, Ms. Reints could not locate any record of internal or external assessments for the facility.
3. The assessment process consisted of reviewing documents in the CST files (these files consist of NEPA documents), interviewing the former facility manager, touring the facility, documenting findings, and summarizing the assessment with an educational report. Ms. Reints was not able to gain access to the OMS during the tour.
4. A list of findings noted during the assessment follows:
 - A. **Environmental Personnel.** A facility Environmental Coordinator will be designated by the 88th Regional Support Command in the future. Mr. Procter is performing environmental coordinator responsibilities now.
 - B. **Hazardous Material and Spill Training.** Facility personnel have not attended any hazardous material or spill prevention and response training this year. Mr. Procter should attend the RSC class being held 7-10 April. Additionally, no environmental training file was set up at the facility.
 - *Ms. Reints suggests that facility personnel attend hazardous material training as soon as possible and is reserving 2 slots for Mr. Procter and his designee to attend the 24 hour course being held by the 88th RSC in April. Probable course location is Schulstad USARC in Arlington Heights, Illinois.*
 - *An environmental training file needs to be set up at the facility. After Mr. Procter attends environmental training, he should put copies of training certificates of all facility personnel who have completed environmental training in the file. Trained personnel should retain the original certificate.*

Internal Environmental Compliance Assessment System
Waukegan AFRC (IL074)

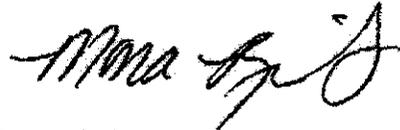
- *Even though there does not appear to be any hazardous waste activity at the facility, the potential for such activity exists, especially with constant troop movement. Consequently, personnel must be prepared for the possibility by completing environmental training.*
- C. **Facility Plans.** The facility had no hazardous materials spill plan, no hazardous waste management plan, and no system to track hazardous waste generation. Chapter 6 paragraph 4 and chapter 8 paragraph 5 of AR 200-1 can be referenced for information on these topics.
- *Ms Reints is providing Mr. Procter with computer file copy of a fill-in- the-blank style 88th RSC spill plan along with this report. Ms. Reints suggests facility personnel complete a hazardous materials spill plan. Several copies of the completed spill plan should be made available for reservists and full-time personnel, especially those designated in the plan. Please note that Ms. Reints can be paged 24 hours a day at 1-800-914-5195 for spills or other environmental emergencies.*
 - *Ms. Reints is providing the facility with a computer file copy of the 88th RSC Draft Hazardous Waste Management Plan and suggests environmental personnel familiarize themselves with the practices in the document. A final copy will be provided when it becomes available.*
 - *If hazardous waste generation or disposal occurs, a file should be created to store all shipping paperwork, receipts, and manifests of the waste during each fiscal year. Efforts should be made to recover documentation of past hazardous waste disposals.*
- D. **Hazardous material/waste inventory.** An inventory of hazardous materials and wastes at the facility was not available.
- *As indicated in chapter 6 paragraph-4c of AR 200-1, an inventory of hazardous materials used at the facility and of hazardous wastes needing disposal should be completed each January. Examples of hazardous materials are cleaning agents, paint, varnishes, and solvents. Each shed, cage, cabinet, and storage area should be inspected as part of the inventory process. Materials/wastes being discarded can be segregated and stored indoors in a secure location (e.g. an OMS maintenance bay) until it can be disposed of. Material Safety Data Sheets (MSDS) for each material should be located and kept on hand for all personnel to review. MSDSs must accompany each item turned in for disposal.*
 - *When a waste inventory is made available to Ms. Reints, she will arrange for disposal.*

Internal Environmental Compliance Assessment System
Waukegan AFRC (IL074)

E. **Indoor Firing Range.** The facility has an indoor firing range that was converted into a kitchen and office space many years ago. No documentation is available to substantiate cleaning or closure.

- *Ms. Reints suggests every effort be made to procure this documentation.*

F. Contact Ms. Reints at (708) 209-2561 if there are any questions or concerns.



Mona Reints
Environmental Manager-Illinois
Bregman and Company

CC: Mark Buck, Chief, 88th RSC Environmental Division
Lou Procter, Facility Manager, Waukegan AFRC
John Dalinis, Chief, 88th RSC Customer Support Team #2

**88TH REGIONAL SUPPORT COMMAND
OIL/WATER SEPARATOR ENGINEERING STUDY
WAUKEGAN, IL (IL 074)**

Prepared by:

**Harza Environmental Services, Inc.
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June 2, 1998

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**88TH REGIONAL SUPPORT COMMAND
OIL/WATER SEPARATOR ENGINEERING STUDY
WAUKEGAN, IL (IL 074)**

INTRODUCTION

Harza Environmental Services (HES) has been retained by the Corps of Engineers Omaha District to evaluate the condition of oil/water separators (OWSs) at various facilities under the 88th Regional Support Command and report findings. Efforts focused on the physical condition of the OWSs, and included documenting the location, condition, maintenance/upgrade requirements, system connections, discharge location, permits required for operation, and potential liability for each OWS. This report summarizes the investigations and findings at the Armed Force Reserve Center in Waukegan, IL (IL 074).

DESCRIPTION OF THE FACILITY

The Waukegan facility is located at 1721 North McAree Road, Waukegan, IL. The facility is headquarters of 6th Brigade (PD), 84th Division (IT) COD, 1/339, 7th Brigade (TS), 84th Division (IT) Weapon Company, and 2/24th Marine Division FMF USMC. The facility consists of a main building containing office, training and storage facilities, an OMS (Organization Maintenance Shop) Building containing three vehicle maintenance bays, offices, and storage. The main building was constructed in 1958 and the OMS Building, wash rack and the OWS were constructed in 1977.

An OWS is located northwest of the OMS Building. A sewer drains to the OWS from a sand trap in an outdoor vehicle wash rack north of the OMS Building. The OWS discharges westward to a sanitary sewer which runs north from the Main Building. A schematic diagram of the OWS System is shown in Figure 1.

The facility manager reports that the wash rack and the OWS have not been used for the past 10 years. The OMS building is primarily used for storage purposes at the present time.

INVESTIGATION ACTIVITIES

A questionnaire was submitted to the Waukegan facility manager to obtain information regarding the OWS system and operations. A copy of the completed questionnaire is included in Appendix A.

On November 04, 1997, HES's engineer conducted the first site visit to the Waukegan facility to inspect the OWS system and conduct additional investigations. HES's engineer met with facility manager Mr. Louis Proctor to review the questionnaire and identify sources of missing information. Mr. Proctor provided a copy of a facility construction plan for review. Drawings of the sewer systems and OWS were not available at the facility. Facility drawings related to the OWS system were obtained from Ft. McCoy,

after the first site visit.

During the first visit, Safety-Kleen Corp., HES's subcontractor, pumped out the contents of the OWS and sand trap and vacuumed and washed the interiors. Washing was conducted using a garden-type hose. Copies of Safety-Kleen's bill of lading/manifest and invoice for disposal of this waste are provided in Appendix B.

On December 09, 1998 HES's engineer conducted the second visit to the Waukegan facility to locate the discharge manhole of the OWS. HES's engineer verified discharge from the OWS through visual observations and dye tests during the second visit. HES also photographed the OWS, and measured the discharge from a hose near the wash rack. Copies of construction drawings obtained from Ft. McCoy are presented in Appendix C, and photographs are presented in Appendix D.

FINDINGS OF SITE VISIT

Figure 1 presents a schematic diagram of the OWS system, indicating sources into and discharge from the OWS. This diagram is based on construction drawings of the facility as verified by HES's field observations.

The OWS has interior dimensions of 2'-9" wide by 4'-3" long. The bottom is stepped so that water depth varies from 1'-4" to 3'-0". Overall depth is approximately 7'. Inlet and outlet pipes are both 6" diameter. Piping length from the wash rack to the OWS is approximately 13'.

At the time of HES's first site visit, the OWS contained approximately 245 gallons of liquid waste. The wash rack contained approximately 36 gallons of solid waste and 13 gallons of liquid waste. These wastes were removed and disposed of by Safety-Kleen along with wash water used during the cleaning.

The OWS was observed to be in generally good condition. Concrete appeared to be sound, with no indication of cracking or spalling. Inlet and outlet pipes and OWS cover also appeared to be sound. The surface of the wash rack also appeared to be in generally good condition. However, a pile of mulch was stored on the west portion of the wash rack. The facility manager indicated that the mulch was received from the City of Waukegan and used for landscaping and planting in the facility.

Trench drains at the outdoor wash rack were observed to be sound, with no indication of cracking. Connection from the sand trap to the OWS was verified by a flow test.

The manhole where the OWS discharges into the sanitary sewer could not be verified by field observations on the November 04, 1997 visit. After obtaining the facility OWS system drawings from Ft. McCoy, HES engineer visited the Waukegan facility again on December 09, 1997. On this day the manhole where the OWS discharges into the sanitary sewer was located. The discharge manhole to the sanitary sewer was observed buried northwest of the OMS Building in the parking lot, and was uncovered. The connection from the OWS to this manhole was verified by dye testing. The manhole was observed to be free of

staining or other indication of oil releases from the OWS

Flow tests and dye tests were conducted after the OWS cleaning was finished. Flow tests were conducted by turning on a hose at a source and observing flow into the OWS, then turning off the hose and verifying that flow stopped. Dye test was conducted by preparing a solution of water tracing dye, pouring it into the drain at a source, turning on a hose to provide flushing water, and observing the dye at the OWS. Blue (Acid Blue 9) dye was used. Dye solution was prepared following manufacturer's recommendations by mixing a small quantity of dye concentrate in approximately 5 gallons of water. Generally, a minute or two was required for flow or dye to be observed at the OWS, depending on the distance to the source.

Discharge from the hose near the wash rack was measured as 5 gallons in 28 seconds, or approximately 11 gallons per minute.

EVALUATION OF OWS CAPACITY

The American Petroleum Institute has established design standards for sizing oil/water separators. These standards provide for effective removal of oil globules greater than 0.015 cm diameter. The primary design factor is the minimum horizontal surface area of the OWS. Additional factors include maximum horizontal velocity through the separator and minimum depth-to-width ratio.

Minimum horizontal surface area is determined by the equation

$$A_H = F(Q_D/v_t) \text{ where}$$

A_H = minimum horizontal area in square feet
 F = turbulence & short-circuiting factor
 Q_D = design flow rate in cubic feet per minute
 v_t = rise rate of oil globule in feet per minute

F is determined by the ratio of horizontal velocity to rise rate, and varies from a minimum of 1.23 at a V_H/v_t of 2 to 1.52 at a V_H/v_t of 10. A value of 1.3 is used for F at this facility. This value is based on $V_H = 0.62$ feet per minute and $v_t = 0.161$ feet per minute as derived below, resulting $V_H/v_t = 3.85$.

Q_D is determined by estimating the maximum flow through the OWS. At this facility, it is assumed to be the sum of stormwater runoff from the outdoor vehicle wash rack and the hose discharge near the outdoor wash rack. Stormwater runoff from the vehicle wash rack to the OWS may be estimated using the rational method.

$$Q_S = C_iA \text{ where}$$

Q_S = flow in cubic feet per second
 C = runoff coefficient
 i = rainfall intensity in in/hr

A = drainage area in acres

A runoff coefficient of 1.0 may be used for sound concrete. Rainfall associated with a 5 year 1 hour storm is estimated at 1.8 inches, as indicated on the map in Appendix E. This design storm is generally accepted as providing an appropriate balance between flow capacity and OWS size. The vehicle wash rack is a concrete pad 27'-0" x 14'-0" = 0.009 acres. Therefore, $Q_S = 0.016$ cfs = 7 gpm. The hose discharge at the wash rack was estimated at 11 gpm during HES's site visit. Therefore the design flow $Q_D = 7 + 11 = 18$ gpm = 2.4 cubic feet per minute.

v_t is determined by the equation.

$v_t = 0.0241(S_w - S_o)/u$ where
 S_w = specific gravity of water at design temperature = approx. 1.0 at 40F
 S_o = specific gravity of oil at design temperature = approx. 0.9 at 40F
 u = absolute viscosity of water at design temperature = approx. 0.015 at 40F
Therefore, $v_t = 0.161$ feet per minute.

The minimum horizontal area required for the OWS at the design flow = $A_H = (1.3)(2.4)/(0.161) = 19.4$ square feet. The actual horizontal area of the OWS is 4.25' long X 2.75' wide = 11.7 square feet, which is smaller than the minimum required.

Horizontal velocity V_H through the OWS is determined by dividing the design flow by the vertical area. Vertical area of the OWS is 2.75' wide X 1.4' water deep = 3.85 square feet. Therefore, actual horizontal velocity is 2.4 cubic feet per second / 3.85 square feet = 0.62 feet per minute. This is considerably less than the recommended maximum horizontal velocity of 3 feet per minute.

Depth-to-width ratio = 1.4' water depth / 2.75' wide = 0.51, which is greater than the recommended minimum depth-to-width ratio of 0.3. This is also greater than the recommended maximum ratio of 0.5, although this is not expected to interfere with oil removal capability.

The horizontal surface area of the existing OWS is not sufficient for a design flow of 18 gpm. However, calculation indicates the OWS is appropriate for a maximum flow of 11.5 gpm. Stormwater runoff from the outdoor wash rack is estimated 7 gpm. Discharge from the hose at outdoor wash rack is estimated at 11 gpm. Therefore, the OWS will provide acceptable performance under either design storm flow conditions or when the hose is used during dry weather conditions.

ADDITIONAL FINDINGS

Mr. Louis Proctor reports the OWS was last cleaned in October, 1996, although records of this service were not available. No other maintenance history was reported.

Mr. Louis Proctor also indicates the facility has no spill prevention, control & countermeasure (SPCC) plan.

in place. The facility has not had any spills which have entered the OWS system

On April 21, 1998 HES contacted Ms Penny Bouchard, Industrial Waste Controller for the Waukegan Service Area of the North Shore Sanitary District. Ms Bouchard reported that the Sanitary District has no requirements for operating permits or for routine sampling for discharges into the sanitary sewers

CONCLUSIONS

The Waukegan facility is located at 1721 North McAree Road, Waukegan, IL. The facility is headquarters of 6th Brigade (PD), 84th Division (IT) COD, 1/339, 7th Brigade (TS), 84th Division (IT) Weapon Company, and 2/24th Marine Division FMF USMC. The facility consists generally of a main building containing office, training and storage facilities, an OMS Building containing three vehicle maintenance bays, offices, and storage, paved outdoor parking areas, and open grassy areas

An OWS is located northwest of the OMS Building. A sewer drains to the OWS from a sand trap in an outdoor vehicle wash rack north of the OMS Building. The OWS discharges westward to a sanitary sewer which runs north from the Main Building.

This report summarizes investigations conducted by HES focusing on the physical condition of the OWS system. Work included cleaning the OWS by Safety-Kleen Corp.

The OWS sizing is not appropriate for a design flow of 18 gallons per minute (gpm). An 18 gpm design flow includes an allowance of 7 gpm for stormwater runoff from the wash rack during a 5 year 1 hour storm plus 11 gpm from the hose at outdoor wash rack. The OWS is appropriate for a maximum flow of 11.5 gpm. Oil removal capability will decrease with greater flow rates.

The OWS appeared to be in good condition.

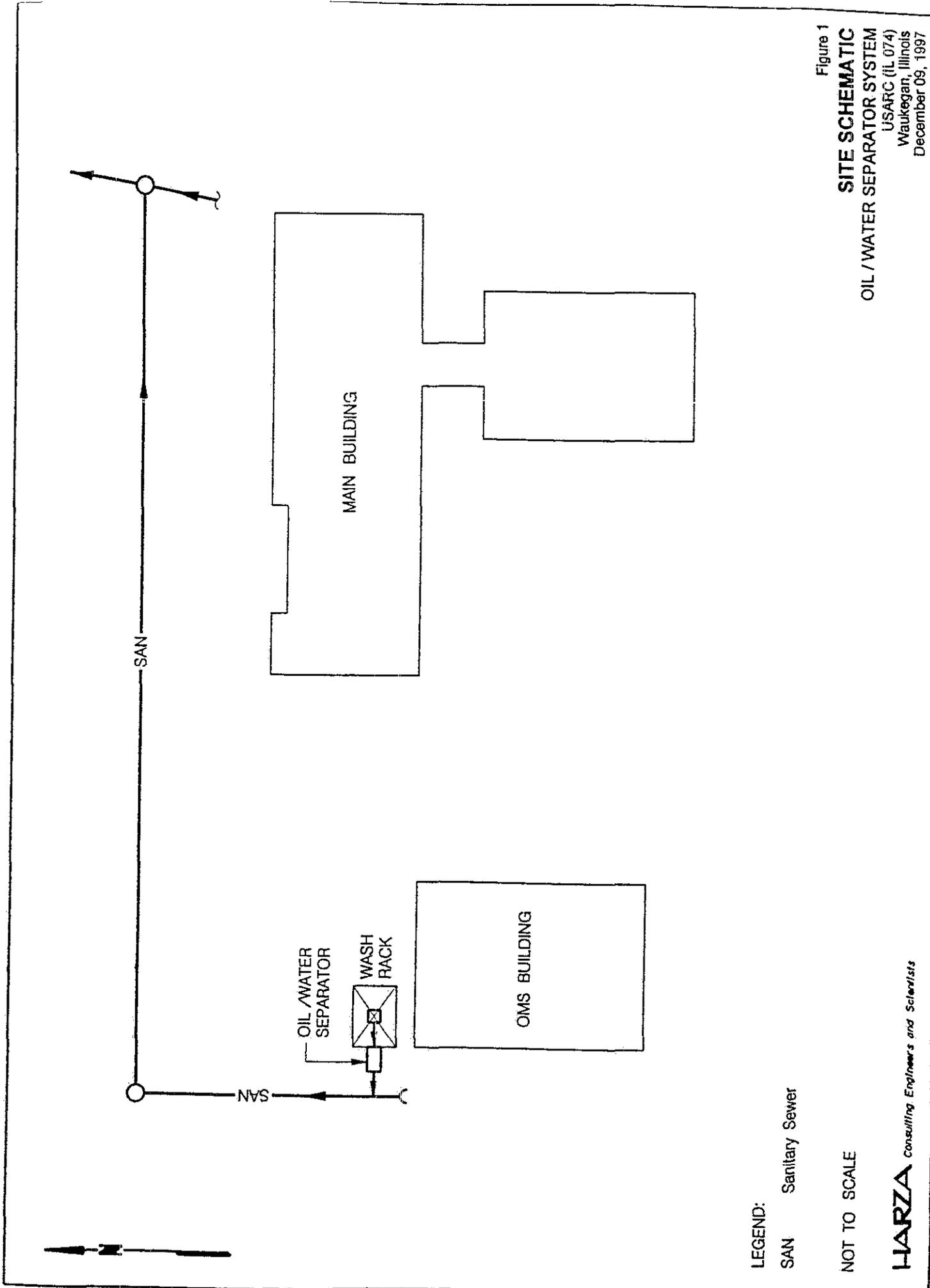
The facility has no SPCC plan in place and has not had any spills which entered the OWS system.

No requirements for operating permits or for routine sampling of discharges were identified.

RECOMMENDATIONS

- 1) The mulch stored on the wash rack should be removed to prevent its entering the OWS system.
- 2) The hose at the outdoor wash rack should not be used during storm events.
- 3) If the outdoor wash rack is not needed in the future, the OWS and the outdoor wash rack should be removed.

- 4) An SPCC plan should be in place.



LEGEND:

SAN Sanitary Sewer

NOT TO SCALE

HARZA Consulting Engineers and Scientists

Figure 1
SITE SCHEMATIC
 OIL / WATER SEPARATOR SYSTEM
 USARC (IL 074)
 Waukegan, Illinois
 December 09, 1997

Appendix A: Questionnaire

**88th REGIONAL SUPPORT COMMAND
OIL/WATER SEPARATOR (OWS) QUESTIONNAIRE
CONTRACT NO. DACW 45-94-D-0044**

1) Facility Identification

a) FACID _____

b) Facility Name Waulagan Reserve Center

c) Address 1721 N. MC AROE RD
ATTN: AFRC-TWS-2
Waulagan A 60085-1499

d) Facility Contact LOU PRATER

e) Telephone Number (847) 599-3020

f) Date Questionnaire Completed 97/10/24
V de Silva - HEG

2) General Information

a) How many OWS's does the facility have? 1

b) When were they constructed? 2 1977

c) Are they connected? Yes No

If so, please explain the connection and piping arrangement:

Don't know

For each OWS at the facility complete separate copies of this questionnaire.

3) Physical Characteristics

a) Indicate the direction and distance from the nearest facility building:

Direction North West from OWS Building

Distance (feet) 75 ft. 20 feet

From Building # OWS Building 1721 N. MC AROE

b) Is the OWS currently operational?

Yes No

If yes, how often is it used per month?

c) When was the last time it was inspected and cleaned (date)?

961001

d) Was this maintenance done by a commercial contractor?

Yes No NA

e) Did the contractor issue a report?

Yes No NA

If so, please attach a copy.

f) What is the approximate capacity of the OWS?

? gal

If unknown, attempt to estimate based on the dimensions

Length

5 4.25 ft

Width

5 2.75 ft

Depth

5 7.0 ft

Depth of liquid

4 3.0 ft

stepped
column

g) Does the OWS currently contain liquid?

Yes No

If yes, approximately how many gallons are currently present?

_____ gal

h) What are the walls and base of the OWS constructed of?

Circle One:

concrete

brick

steel

unknown

other _____
(specify)

i) Size of access manways to OWS

diameter _____ or feet 4.25 x 2.75

j) Can the cover be removed?

Yes No

k) Is the cover locked?

Yes No

l) Does the OWS have a sand grit chamber?

Yes

No

Estimated size

unknown

Depth of grit present in the chamber and/or on the base of OWS

_____ ft

- m) Is there a collection trench connected to the OWS? Yes No
- n) Is there liquid in the trench? *N/A* Yes No

If so, estimate the volume (length x width x depth in feet x 7.48) = _____ gal

- o) Is there sediment in the trench? Yes No

If so, estimate the amount (length x width x depth in feet x 7.48) = 2 1/2 gal

- p) What are the dimensions of the collection trenching?

Length *N/A* ? ft
 Width ? ft
 Depth _____ ft

- q) What are the walls and base of the trenching constructed of?

Circle One: Concrete Steel Unknown Other N/A ?
 (specify)

- r) What operations are the OWS used in conjunction with at the facility (check all that apply).

vehicle wash rack
 vehicle maintenance bay drains
 POV or MEP parking area runoff
 other (specify) _____

- s) Do you have a copy of the following at the facility?

Scaled site drawing of the facility *N/A* Yes No
 Engineers drawings of OWS Yes No
 "As built" drawings of OWS Yes No
 Construction specifications of OWS Yes No
 Engineers drawing of the OWS, collection trench discharge lines, outfalls, manholes, etc. Yes No

Facility Drawings were obtained from Ft McLaw after the 1st visit

If yes, please furnish copies.

- t) Distance from OWS to nearest source of wash water (min. 1/2" hose bib) *N/A*

4) Operation and Discharge Conditions

a) Where does the OWS discharge (check as applicable)

- municipal storm sewer
- municipal sanitary sewer
- septic tank
- septic drain field
- holding tank
- adjoining ditch, pond or stream
- french drain (open bottom OWS)
- unknown
- other (specify) _____

M/A

b) Describe the approximate location of the OWS discharge in terms of the distance and direction from the OWS.

Direction _____
 Distance _____ ft.

M/A

c) What is the estimated discharge flow rate in gallons per month? _____ gal

Describe basis for discharge rate estimates (i.e., actual flow rate measurements; number of vehicles washed x gallons per wash; other)

d) Does the facility have an NPDES or POTW permit? Yes No

If yes, please attach a copy.

If no, or if permit is not available, please forward any information regarding discharge limits, sampling requirements, and reporting requirements.

e) Do you have laboratory analytical data (total suspended solids, oil & grease, BOD, pH, etc.)

characterizing flows into the OWS? Yes No

characterizing discharge from the OWS? Yes No

If yes, please furnish copies.

f) Has your facility had any violations of discharge limits or standards?

Yes No

If yes, please furnish copies of reports describing nature, causes, and responses.

5) Emergency Response

a) Does your facility have an SPCC (Spill Prevention, Control & Countermeasure) Plan?

Yes No

b) Has your facility had spills of oils and/or hazardous materials which have entered the OWS system?

Yes No

If yes, please furnish copies of reports describing nature, causes, impacts, and responses.

6) Miscellaneous

a) Describe any other information, circumstances or events associated with the OWS.

Appendix B: Waste Disposal Documentation

BILL OF LADING/ TRACKING DOCUMENT 1. Shipper's US EPA ID No. (If Applicable) *GESQ.G.* Document No. *90132* 2. Page 1 of *1* **02818**

3. Shipper's Name and Mailing Address
WILSON & FERGUSON
1731 N. MICHIGAN
CHICAGO IL 60610
4. Shipper's Phone (*312*) *599-3000*

5. Transporter 1 Company Name *SAFETY-1 CLEAN* 6. US EPA ID Number *1L0989908207* A. Transporter's Phone *477-468-6530*
7. Transporter 2 Company Name _____ 8. US EPA ID Number _____ B. Transporter's Phone _____

9. Designated Facility Name and Site Address *SAFETY-KEMER OIL REFINERY*
601 EAST RILEY ROAD
EAST CHICAGO IL 48312 10. US EPA ID Number *11ND077CH2034* C. Facility's Phone *219-397-1131*

11. Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. <i>USED OIL AND WATER MIXTURE</i> <i>(NOT DOT HAZARDOUS MATERIAL)</i>	<i>00177</i>	<i>00284</i>	<i>6</i>	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

15. Special Handling Instructions and Additional Information

16a. US DOT HAZARDOUS MATERIALS SHIPPER'S CERTIFICATION: This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____

16b. NON-REGULATED SHIPPER'S CERTIFICATION: I certify the materials described above on this form are not subject to federal regulations for transportation or disposal.

Printed/Typed Name *LOUIS J. PROCTER* Signature _____ Month *11* Day *09* Year *97*

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name *GREG HARRIS* Signature _____ Month *11* Day *09* Year *97*

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____

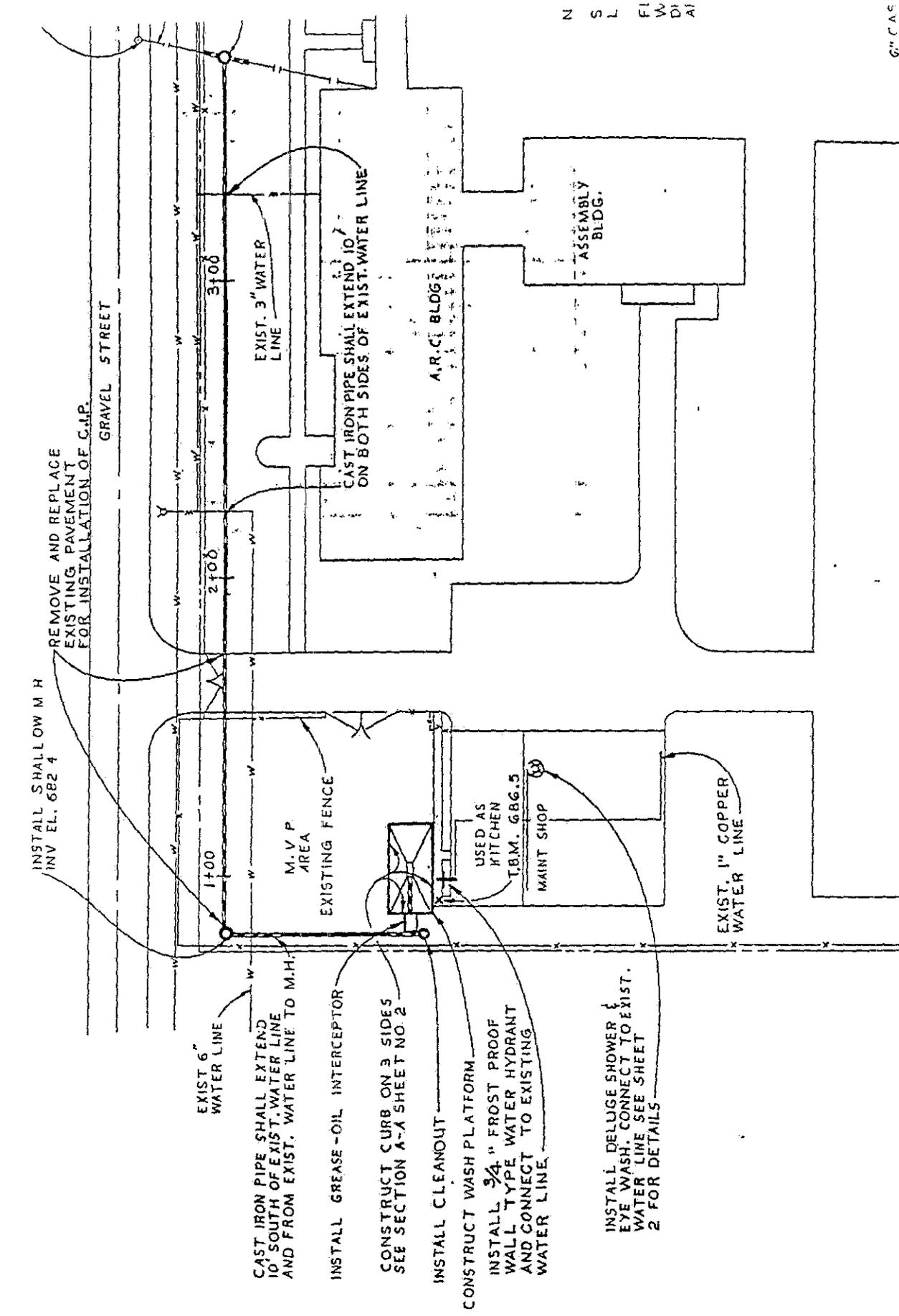
19. Discrepancy Indication Space

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

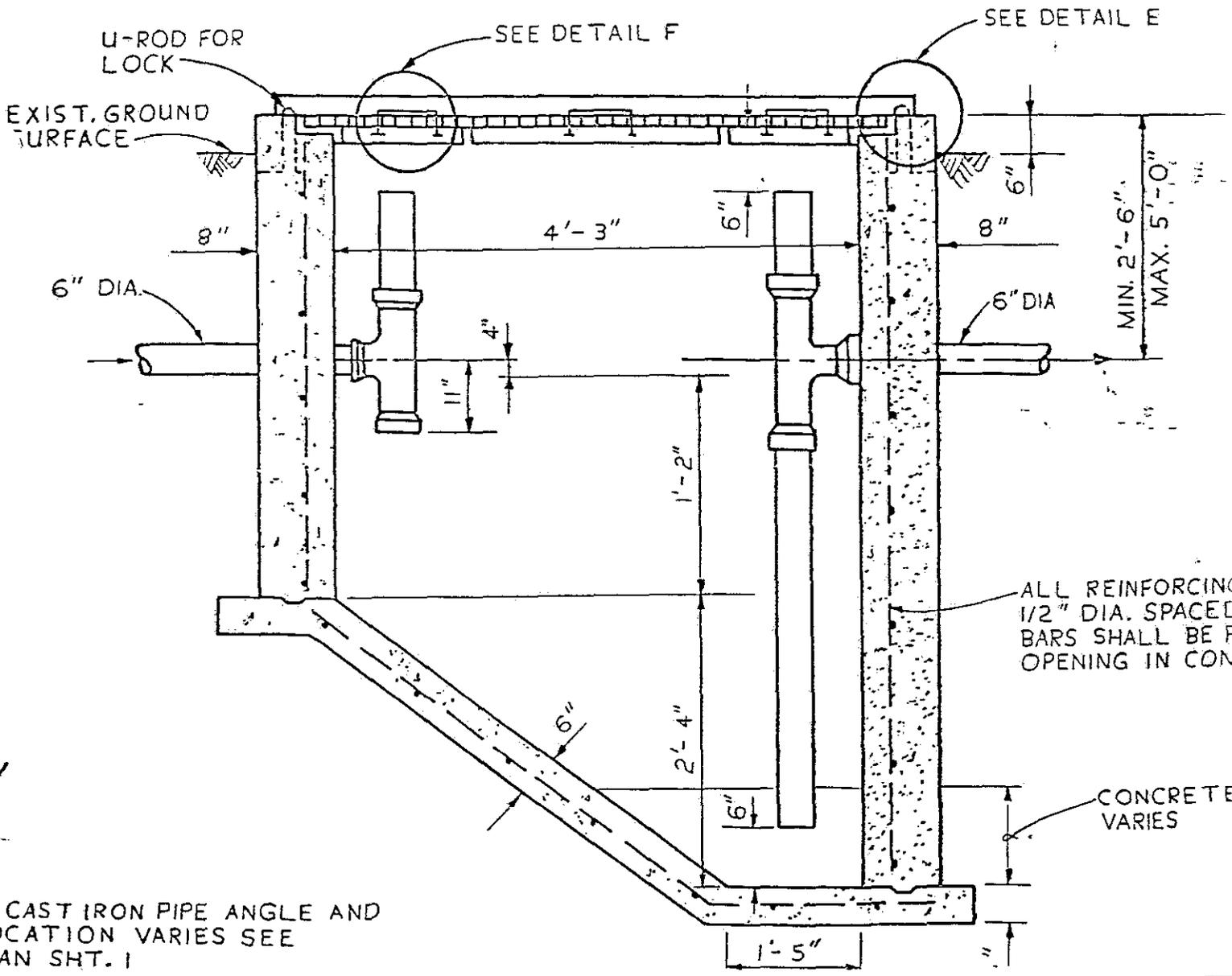
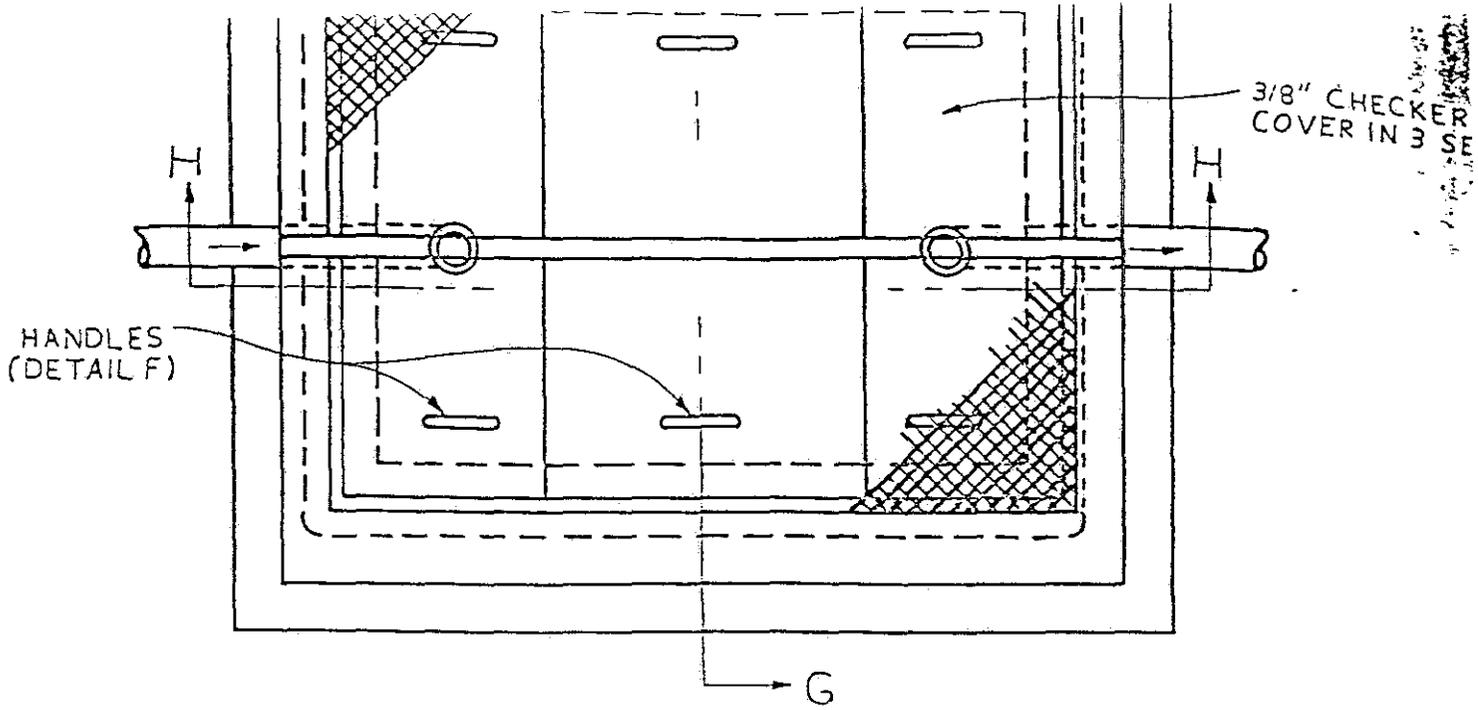
Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____

IN EVENT OF EMERGENCY CALL
1-708-888-4660 (24 hours)

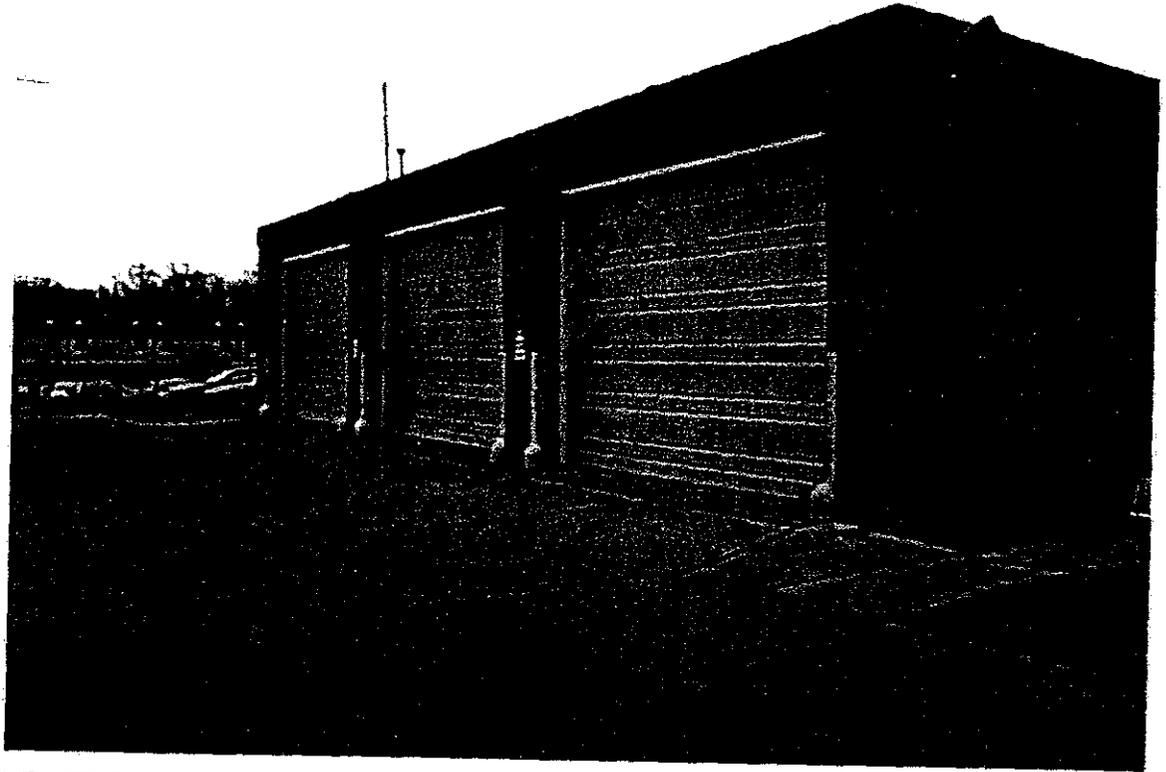
Appendix C: Construction Drawings



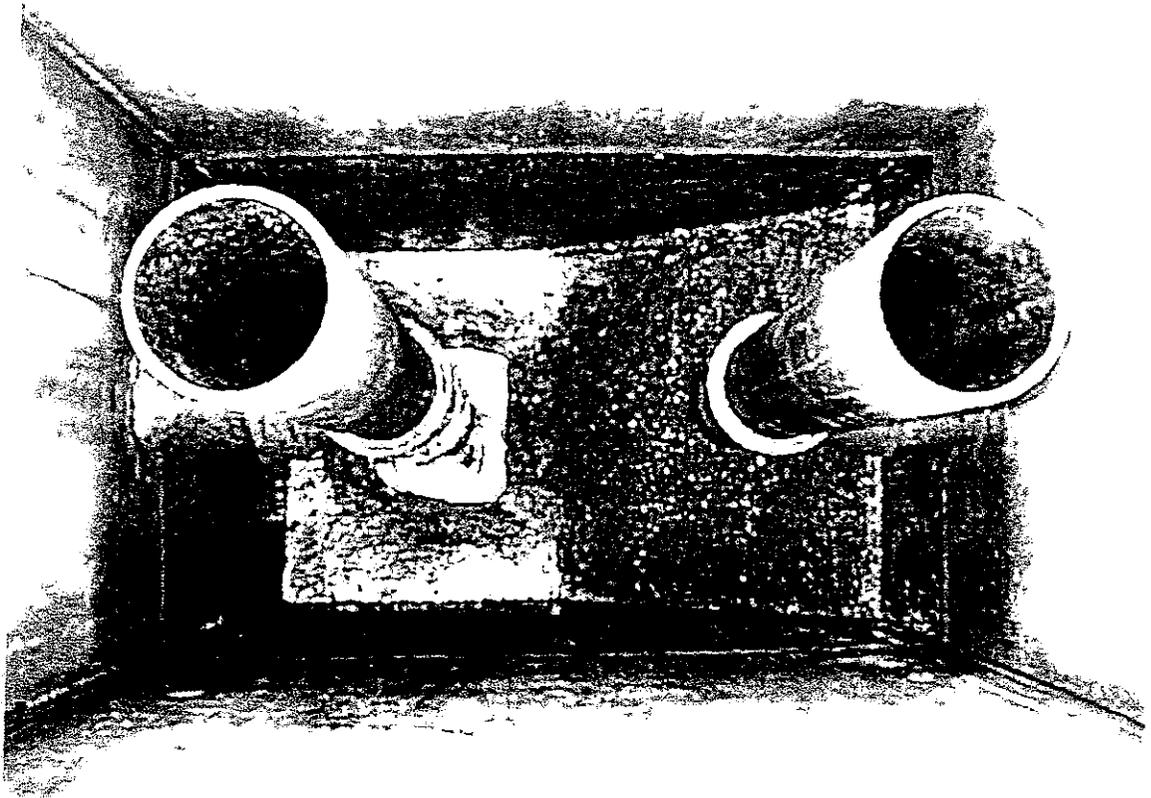
N S L F I W D I A I



Appendix D: Photos



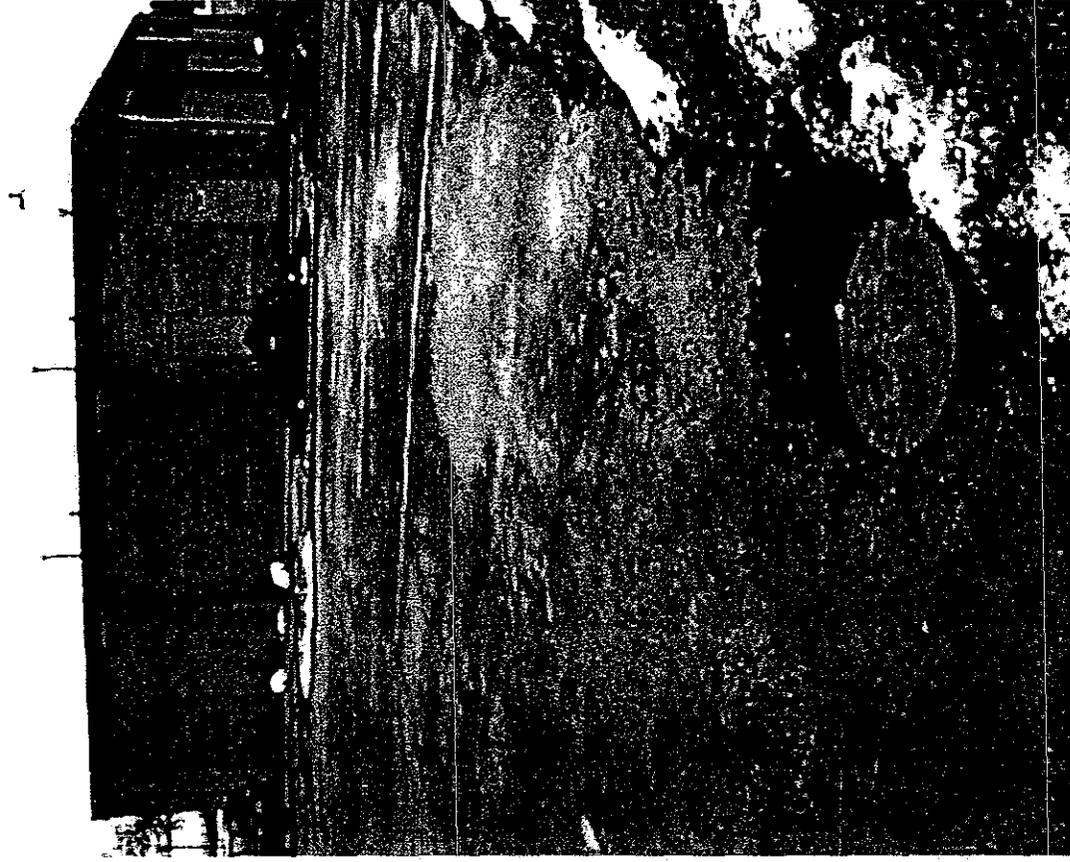
Three Bay OMS Building
(Looking Southwest)



Oil / Water Separator Interior, Inlet End (Right) and Outlet End (Left)
(Looking North)

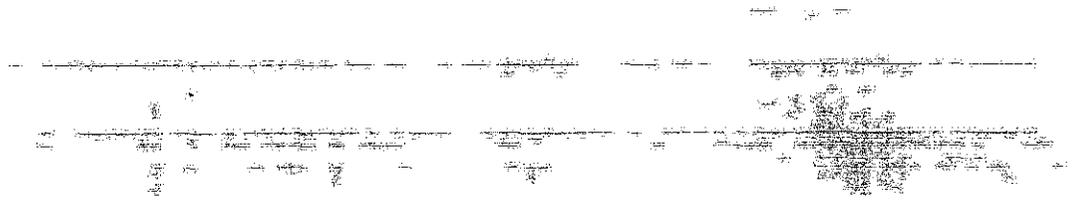


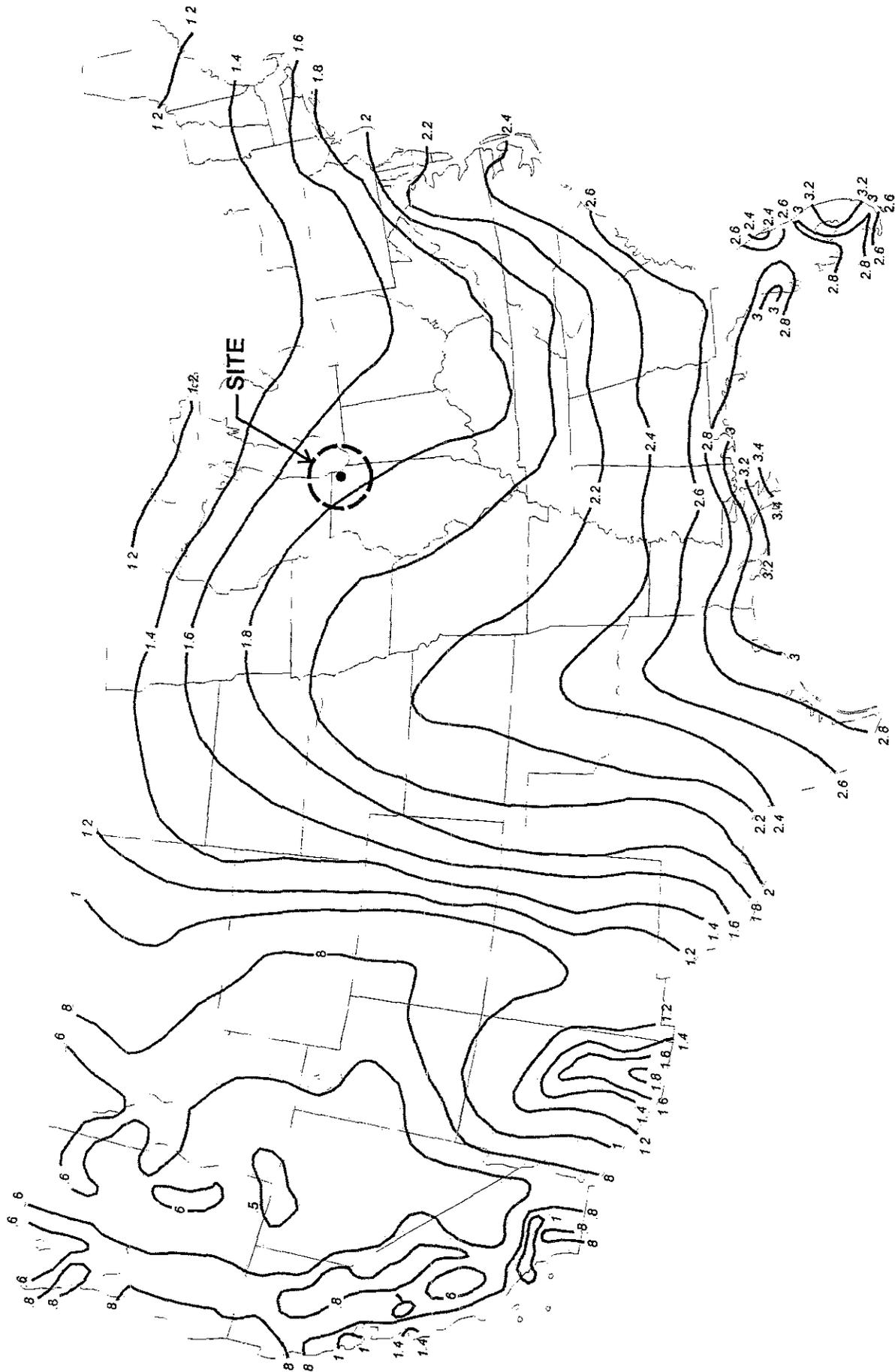
Oil / Water Separator Location, OMS Building
in Background (Looking Southeast)



Discharge Manhole to Sanitary Sewer, OMS Building
in Background (Looking Southeast)

Appendix E: Rainfall Map





ENGINEERING & ENVIRONMENT'S
SEPARATOR SHEET
FOR
(FOLDERS)

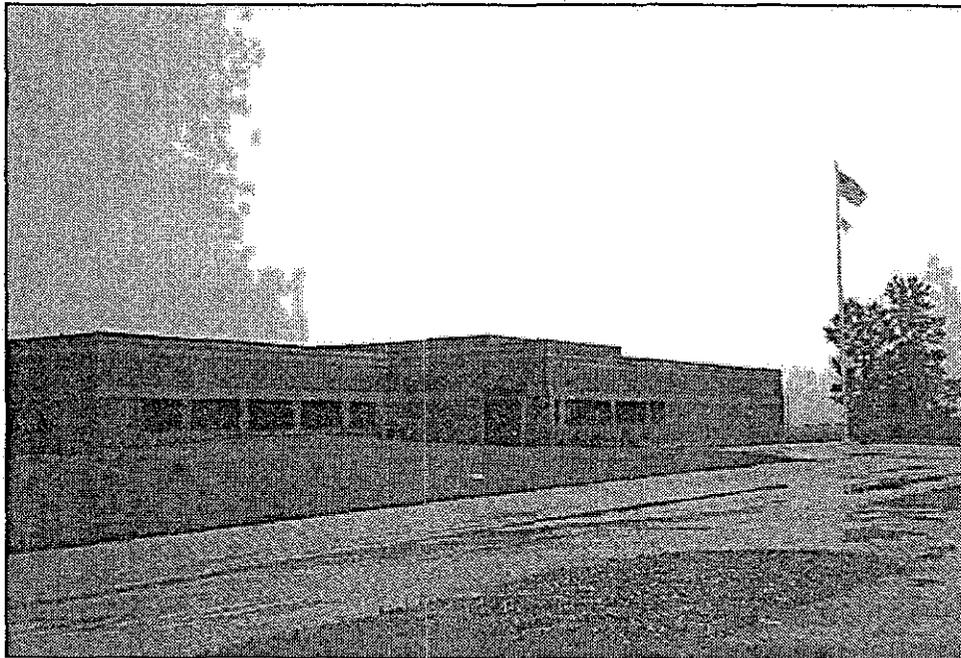


ENGENVFOLDER01

**FORT McCOY
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Reports of Investigation No. 13

**Illinois Section 110 Inventory
Volume III
March 2000**



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

Illinois Section 110 Inventory
Volume III

Archaeological Resource Management Series
Reports of Investigation Number 13

Prepared for

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88th Regional Support Command
Environmental Management Division
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Minneapolis, Minnesota

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November 1998

Editorial Review

Jason L. Tish
Fort McCoy Archaeology Laboratory
March 2000

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

Cover Stefanich AFRC, Kankakee, Illinois

National Historic Preservation Act of 1966, as Amended Section 110

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

Abstract

In 1994, the Fort McCoy Archaeology Laboratory, at Fort McCoy, Wisconsin, was contracted by the 88th Regional Support Command (RSC) to conduct a Historic Properties Inventory of all U.S. Army Reserve Centers (USARC) located within the state of Illinois, under the provisions of Section 110 of the National Historic Preservation Act (NHPA). A total of 41 USARC facilities were inventoried during this study. All buildings at the USARC facilities were assessed for eligibility to the National Register of Historic Places (NRHP). Three facilities (Schulstad USARC, Arlington Heights, Illinois, the Charles Melvin Price Support Center, Granite City, Illinois, and the Philip H. Sheridan Reserve Center, Fort Sheridan, Illinois) contained buildings recommended a potentially eligible for nomination to the NRHP.

Introduction

In 1994, the Fort McCoy Archaeology Laboratory was contracted to conduct a Historic Properties Inventory under the provisions of Section 110 of the NHPA of all USARC facilities owned or leased by the 88th Regional Support Command in the state of Illinois. A total of 149 buildings on 41 USARC facilities were surveyed throughout Illinois. This report describes the recordation and evaluation methods and findings of the Fort McCoy Archaeology Laboratory inventory of the USARC facilities. Additionally, this report provides information documenting the sources and informants used in evaluating the actions to determine eligibility for the nomination of the surveyed properties to the NRHP.

Preliminary research included meetings with officials of the Illinois State Historic Preservation Office (SHPO) and historical research conducted at the Illinois Historical Society, regional county courthouses, and local libraries. The Illinois Archaeological Sites Index, maintained by the Illinois SHPO, was consulted to determine the location of any known archaeological sites on or near each USARC facility. Oral interviews were conducted with USARC personnel at each facility. Fieldwork for the project was conducted during March-July 1995, June 1997, October 1997, and February 1998.

All Illinois listings in the NRHP were reviewed prior to commencement of fieldwork for the inventory. Those properties on all USARC facilities that met the criteria for NRHP eligibility were examined and recorded to assess their potential for possible nomination to the NRHP. Three USARC facilities (Schulstad USARC, Arlington Heights, Illinois, the Charles Melvin Price Support Center, Granite City, Illinois, and the Philip H. Sheridan Reserve Center, Fort Sheridan, Illinois) have historic structures determined potentially eligible for nomination to the NRHP.

Statement of Purpose

The Fort McCoy Archaeology Laboratory Section 110 inventory of the USARC facilities within the state of Illinois, was conducted consistent with the *Secretary of the Interior's Standards and Guidelines for Identification and Evaluation (Standards)*. The primary goal of the NHPA, according to the *Standards*, is to "preserve prehistoric and historic resources throughout the nation for the inspiration and benefit of present and future generations." In fulfillment of this goal, governmental agencies, within the framework of their missions, are charged with administering federally owned, administered, or controlled prehistoric and historic resources in a spirit of stewardship, and caring for significant prehistoric and historic properties in ways that ensure long-term protection and integrity of those properties.

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

In meeting the compliance requirements of Section 110(a)(2) of the NHPA and the *Standards*, researchers from the Fort McCoy Archaeology Laboratory conferred with the Illinois SHPO regarding previous archaeological or historical architectural investigations conducted on or near the Illinois USARC facilities. Previous archaeological and architectural surveys were found for three USARC facilities (Scott Air Force Base, Illinois, the Charles Melvin Price Support Center, Granite City, Illinois, and the Philip H. Sheridan Reserve Center, Fort Sheridan, Illinois). These surveys were conducted by private consulting firms and governmental agencies that methodically analyzed the archaeological and architectural components of each facility and provided recommendations for future management of the identified historic resources. Members of the Fort McCoy Archaeology Laboratory carefully analyzed these reports and compared their results with the actual on-site recordation of the facilities conducted during this inventory. Discrepancies found between existing reports on the facilities and the on-site recordation conducted by members of the Fort McCoy Archaeology Laboratory are described in detail within the individual facility sections of this report. All prior archaeological surveys conducted within one-mile of the USARC facilities were also documented. Historic themes established by the Illinois SHPO were followed in preparation of the historic context and in identifying historic properties.

All fieldwork was conducted by Fort McCoy Archaeology Laboratory personnel who meet the *Secretary of the Interior's Professional Qualification Standards at 36 CFR 61* (Appendix A). The field recordation methods employed in the inventory follow accepted practices within the field of historic research and included, but were not limited to, on-site evaluation and documentation of historic buildings and properties, review of all pertinent historical documentation, and interviews with facilities managers regarding the properties. Assessments of potential eligibility for the NRHP were made based upon the field research, on-site documentation, and post inventory evaluation.

Factors That May Precipitate a Change in Status

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

Methodology

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

Architectural Study Methods

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

- 1) a literature review of the historic documents relating to the construction and maintenance of each building on the USARC facilities;
- 2) an architectural evaluation of the potential NRHP eligibility of each building on the USARC facilities;
- 3) a surface reconnaissance of land associated with each USARC facility.

The historic themes used to evaluate the historic contexts associated with the properties analyzed in this inventory were taken directly from the guidelines identified by

the Illinois SHPO in the *Illinois Comprehensive Statewide Historic Preservation Plan*.¹ The results of the historical, architectural, and archaeological surveys conducted by members of the Fort McCoy Archaeological Laboratory are described in the following sections of this report.

Historical Literature Review

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

- 1) examination of real property records maintained by the 88th RSC;
- 2) examination of real property records located at each USARC facility (when available);
- 3) an in-person interview with the facility manager at each USARC facility;
- 4) NRHP eligibility nominations filed with the Illinois SHPO (when applicable);
- 5) examination of the Archaeological Sites Index maintained by the Illinois SHPO;
- 6) examination of the historic documents housed at the Illinois Historical Society, regional county courthouses, and local libraries;
- 7) examination of previous cultural resource, archaeological, architectural, and environmental surveys available about each USARC facility (when available).

Architectural Fieldwork

Historic research conducted at the 88th RSC Real Property Office, on the buildings at each USARC facility, was utilized to establish an initial database of the architectural styles that would be encountered during on-site documentation. On-site fieldwork consisted of producing in-depth textual descriptions included.

¹*Illinois Comprehensive Statewide Historic Preservation Plan*, (Springfield, Illinois: Illinois Historic Preservation Agency, Division of Preservation Services), 1995, pp. 8-10.

Architect/Builder
Type of building
Date of construction
Date of acquisition
Architectural style
Foundation material
Number of bays
Plan shape
Wall construction
Roof type
Roof materials
Chimney construction
Chimney placement
Type and location of entrances
Type and location of fenestration
Relationship of all buildings on the facility
Integrity of each building
Potential threat to the buildings
Future research potential at the facility
Assessment of the potential eligibility of each building to the NRHP under
Criteria A, B, C, and D

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

The Illinois Section 110 Inventory Report

A site-specific assessment of the historic, architectural, and archaeological significance was accomplished to determine if buildings and/or districts on each USARC facility were potentially eligible for nomination under Criteria A, B, C, and D to the NRHP. The Illinois Section 110 Inventory is intended to provide the Commander, 88th RSC, with a comprehensive overview of all USARC properties in Illinois. Specifically, this report provides architectural, historic, archaeological, and security information to aid in the management of the physical resources located on USARC facilities controlled by the 88th RSC. Data contained in the individual sections of this report were recorded and

presented in accordance with standards established by HABS and the Secretary of the Interior's Professional Qualification Standards at 36 CFR 61.²

This report is also designed to permit individual facility managers to remove the sections discussing their facilities. Information included in discussions of individual USARC facilities may be repeated in the introduction and discussion sections. Information contained in the individual USARC facility sections include:

- Facility Identification Number
- Facility Name
- Facility Address
- USGS 7.5 Minute Series Quadrangle Map
- UTM
- Present Ownership/Occupant/Use of the facility
- Setting/Landscape
- Archaeological Resources
- Historical Information
- Historical Context
- Architectural Information
- Security
- Building Descriptions
- Eligibility
- Sources

National Register Criteria of Evaluation

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

Criteria

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

²Historic American Building Survey, *Historian's Procedures Manual*, (Washington, D.C. Department of the Interior, National Park Service), 1984, p. 2-50. "Transmitting Documentation to HABS/HAER. WASO," technical manual updated provided by the Historic American Building Survey/Historic American Engineering Record (Washington, D.C. National Park Service), 1989, p. 27-32.

- B. That are associated with the lives of persons significant in our past; or
- C. That embody the distinctive characteristics of a type, period, or method of construction or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
- D. That have yielded, or may be likely to yield, information important in prehistory or history.³

Criteria Considerations

- A. A religious property deriving primary significance from architectural or artistic distinction or historical importance; or
- B. A building or structure removed from its original location but which is significant primarily for architectural value, or which is the surviving structure most importantly associated with the historic person or event; or
- C. A birthplace or grave of a historical figure of outstanding importance if there is no other appropriate site or buildings directly associated with his productive life, or
- D. A cemetery which derives its primary significance from graves of persons of transcendent importance, from age, from distinctive design features, or from association with historic events, or
- E. A reconstructed building when accurately executed in a suitable environment and presented in a dignified manner as part of a restoration master plan, and when no other building or structure with the same association has survived, or
- F. A property primarily commemorative in intent if design, age, tradition, or symbolic value has invested it with its own historical significance; or
- G. A property achieving significance within the past 50 years if it is of exceptional importance.⁴

³*The Section 110 Guidelines Annotated Guidelines for Federal Agency Responsibilities under Section 110 of the National Historic Preservation Act, Section III, February 1988.*

⁴*Ibid.*

Waukegan, Illinois

Identification Information

Waukegan Armed Forces Reserve Center

Facility Identification Number: IL074/17985

1721 North McAree Road, Waukegan, Lake County Illinois 60085-1499

Map reference: Waukegan, Ill. Quadrangle, USGS 7.5 Minute Series,

UTM: Z16, 429525E, 4692625N

T45N R12E, Section 17

Present Owner/Occupant: The facility is owned by the U.S. Government and controlled by the 88th RSC.

Setting/Landscape

The Waukegan AFRC consists of three buildings on 4.2 acres of land (WA683, WA684) in a commercial and residential district of Waukegan, Illinois (Figure 374). The Army Reserve Command and Marine Corps share space in the AFRC administration building. However, each agency maintains its own Organizational Maintenance Shop.¹ The landscape surrounding the facility consists of grass, trees, and shrubs.

Historic Context

The city of Waukegan began as a small Potawatomi village near a natural harbor on Lake Michigan. The harbor attracted French explorers during the seventeenth century who established a trading post in the village in order to trade French and Canadian manufactured goods with regional Native Americans.² By 1675 prosperous trade had developed which led to the establishment of French trading settlement named Petite Fort (or Little Fort). The French left the region in 1760 when it lost possession of its holdings in North America after the French and Indian War.³ The Potawatomi continued to inhabit the Petite Fort until 1836, when they were removed from the region after they signed a treaty with the United States Government. American settlers quickly settled into the region and by 1846 had established a thriving trade market based on the excellent natural port near Petite Fort. In 1849 Petite Fort was officially incorporated as the village of Waukegan, the Potawatomi name for the early French trading post.⁴ In 1855 the Chicago

¹ This report only describes the structures used, leased, or maintained by the 88th RSC. The Organizational Maintenance Shop building maintained by the Marine Corps at the Waukegan AFRC is not included in the documentation conducted by members of the Fort McCoy Archaeology Laboratory staff

² Works Progress Administration, *Illinois. A Descriptive and Historical Guide*, (Chicago: A.C. McClurg & Co.), 1939, p. 385

³ *Illinois: A Descriptive and Historic Guide*, ed. Harry Hansen, (New York, New York: Hastings House Publishers), 1974 revised from 1939 p. 457

⁴ *Ibid.*, p. 458.

& Milwaukee Railroad (later the Chicago & North Western) constructed rail lines through the region that expanded Waukegan's trade economy through the middle nineteenth century. The city's economy continued to expand through the late nineteenth and twentieth centuries to include the manufacturing of steel, electrical components, rubber, and chemical products for a host of national corporations.⁵

The Waukegan AFRC was constructed in Waukegan in 1957 for use as an Armed Forces training center.

Archaeological Resources

A record search at the Illinois State Historic Preservation Office confirmed the absence of recorded archaeological sites on the facility. The Waukegan AFRC is located on land that has been extensively disturbed by building construction. An on-site assessment determined that there is a low probability of extant archaeological remains on the facility property.

Architectural Information

The Waukegan AFRC contains three buildings with concrete block walls and brick facades. The buildings are in good physical condition, but do not possess architectural character or merit. There appear to have been no additions or alterations to the buildings since their original construction.

Reserve Center (WA001)

The Reserve Center functions as an administration office and drill hall for Army and Marine Corps reserve units assigned to the Waukegan AFRC. Constructed in 1957, it is a multiple-level T-shaped building with a one-story administration section and a two-story drill hall. It rests on a concrete foundation and has concrete block walls and a brick facade. The building's main entrance is located on the north side of the building and consists of a pair of glass pedestrian doors. Additional entrances, consisting of metal and paired glass pedestrian doors are located on the north south, and east sides of the building. A series of two-light sliding windows with plain slip sills are located on the north and south sides of the administration section. Sets of four two-light double-hung windows with continuous slip sills are located on the east and west sides of the administration section. Sets of four three-light windows with continuous slip sills are located on the west and east sides of the drill hall near the roof eaves. An east-west oriented low pitched gable roof covers the administration section of the building and a north-south oriented low-pitch gable roof covers the drill hall (Figure 376). A brick chimney is located on the roof in the southeast corner of the administration section.

Organizational Maintenance Shop (WA002)

⁵ Ibid., p. 157.

The Organizational Maintenance Shop functions as a vehicle maintenance facility for the Army Reserve units assigned to the Waukegan AFRC. Constructed in 1957, it is a one-story rectangular building that rests on a concrete foundation and has concrete block walls and a brick veneer (Figure 377). The east side of the structure has three metal overhead-retractable bay doors separated by brick pilasters. The north side of the OMS has two single metal pedestrian doors and four brick pilasters. The pilasters continue along the west and south walls. A flat roof covers the building.

Eligibility

The Waukegan AFRC does not meet the qualifications for nomination to the National Register of Historic Places, under Criteria A, B, C, or D, and thus is recommended not eligible to the National Register of Historic Places. A records search combined with an on-site investigation of the facility determined that there is no direct relationship between the facility and prehistoric or historic events (Criterion A), there is no association with significant persons involved in prehistoric or historic events (Criterion B), buildings on the facility are not architecturally or technologically significant (Criterion C), and the facility is unlikely to hold future research potential (Criterion D).

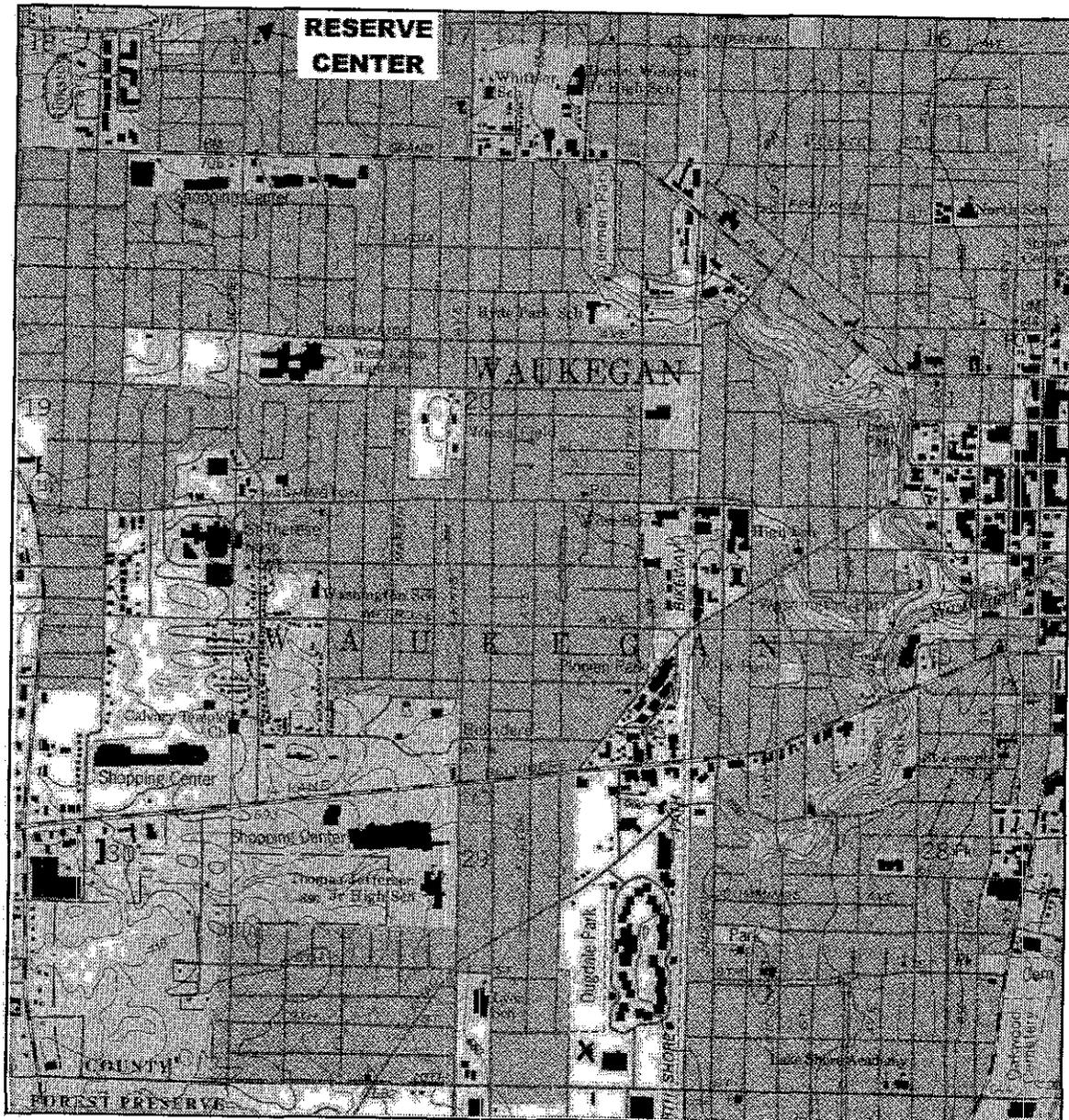
Recommendations

No additional review under Section 110 of the National Historic Preservation Act (NHPA) is recommended. However, additional review will be necessary if specific undertakings require compliance with Section 106 of the NHPA (36 CFR 800).

Sources

Illinois: A Descriptive and Historic Guide. ed. Harry Hansen. New York, New York: Hastings House Publishers. 1974 (revised 1939).

Works Progress Administration. *Illinois: A Descriptive and Historical Guide*. Chicago: A.C. McClurg & Co. 1939.



Waukegan, Ill. Quadrangle, USGS 7.5 Minute Series

Figure 374. Location of the Waukegan AFRC, Waukegan, IL.

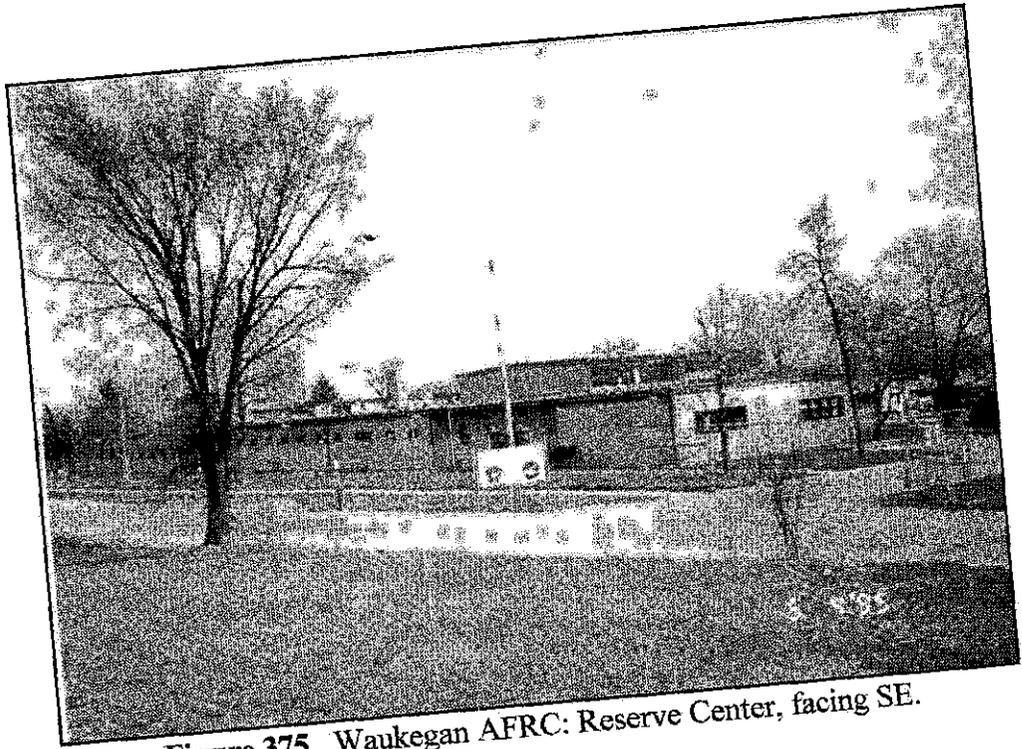


Figure 375. Waukegan AFRC: Reserve Center, facing SE.

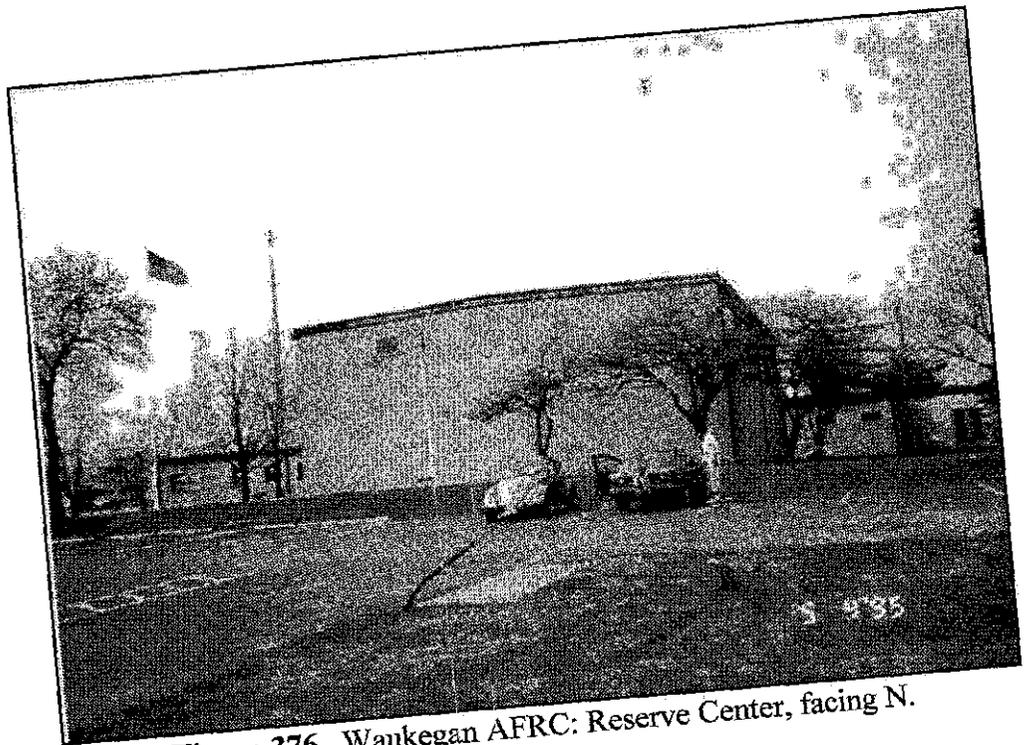


Figure 376. Waukegan AFRC: Reserve Center, facing N.

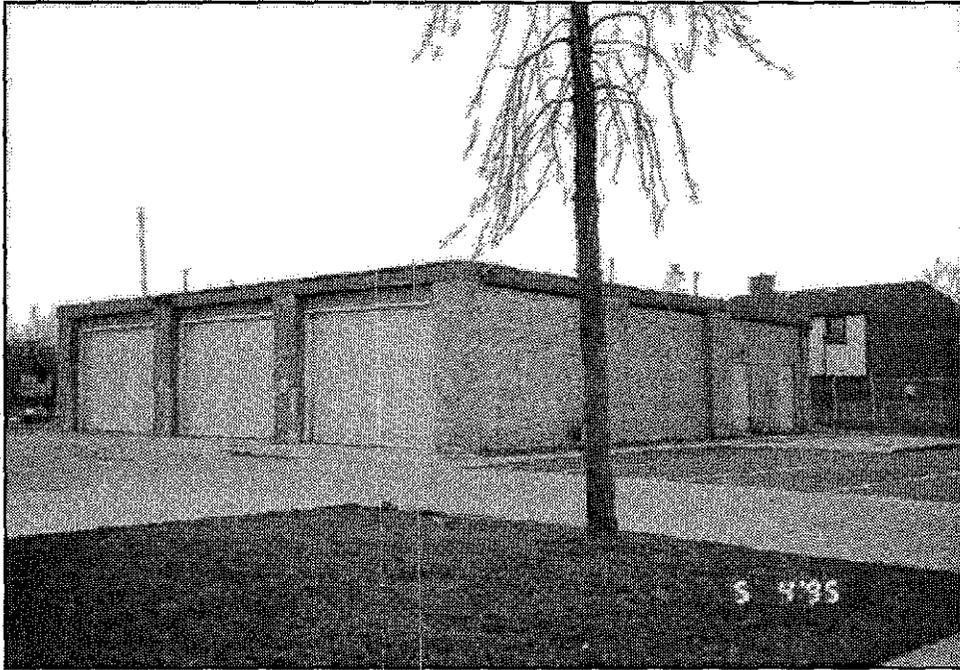


Figure 377. Waukegan AFRC: Organizational Maintenance Shop, facing SW.

Wood River, Illinois

Identification Information

1LT A.J. Ellison United States Army Reserve Center

Facility Identification Number: IL089/17995

100 Anderson Avenue, Wood River, Madison County, Illinois 62095-1296

Map reference: Wood River, Ill.-Mo. Quadrangle, USGS 7.5 Minute Series

UTM: Z15, 500145E, 4305265N

T5N R9W, Section 27

Present Owner/Occupant: The facility is owned by the U.S. Government and controlled by the 88th RSC.

Setting/Landscape

1LT A.J. Ellison USARC consists of two buildings on 4 acres of land (00320) in a residential area of Wood River, Illinois (Figure 378). The facility is landscaped with grass, trees, and shrubs.

Archaeological Resources

A record search at the Illinois State Historic Preservation Office revealed two recorded archaeological sites (MS-7 and Ms-329) within three miles of the facility.¹ These sites are not on land associated with 1LT A.J. Ellison USARC and are not affected by training activities conducted at the facility. 1LT A.J. Ellison USARC is located on land that has been extensively disturbed by the construction of the facility. An on-site pedestrian survey failed to locate any prehistoric or historic remains on the property. There appear to have been no exterior modifications to the buildings since their original construction.

Historical Context

European settlement in the Wood River region began around 1810, when a village named Milton was established along the Wood River. Violent hostilities between settlers and Native American tribes continued throughout the early nineteenth century.² During the middle and late nineteenth century oil refining became the primary economic base for the region. As oil production increased the refining industry attracted a growing labor force to the area. Small communities were established throughout the region to house the labor force employed at the many local refineries. The town of Wood River was incorporated in 1908, when the Standard Oil Company purchased an unruly labor town named Benbow

¹ William G. Fecht, "Illinois State Museum Archaeological Survey: Sawyer Site (Ms-7)," 1949 and A.D. Harn, "Illinois Archaeological Survey: Kapple Mound (ISM-Ms-329)," 1962. The above documentation was found in archaeological site files from the Illinois State Historic Preservation Office in Springfield, Illinois

² *Illinois: A Descriptive and Historic Guide*, ed. Harry Hansen, (New York, New York: Hastings House Publishers), 1974, p. 543

City to house its labor force.³ The company replaced the existing town buildings with new homes and facilities for its employees. The base of Wood River's economy has continued to be dependent on the many oil refiners located in other parts of the region.

1LT A.J. Ellison USARC was constructed in Wood River in 1957 for use as a military training center. The facility was used by the U.S. Navy until the late 1970s when it was turned over to the U.S. Army for use as a Reserve Center.⁴

Reserve Center (00257)

The Reserve Center functions as an administration office and drill hall for 1LT A.J. Ellison USARC. Constructed in 1957, it is a multiple-level T-shaped building with a one-story administration section and a two-story drill hall. It rests on a concrete foundation and has concrete block walls and a brick veneer (Figure 379). The main entrance to the building is a recessed entry on the south side of the building with a set of paired pedestrian doors. Additional entrances include single pedestrian doors and a metal overhead retractable bay door. Various fenestration, including two-light sliding windows with slip sills, several two-light double-hung windows with slip sills, and sets of four two-light double-hung windows with continuous slip sills, is located on all sides of the building. A brick chimney is located in the center of the north side of the building. Two low pitch gable roofs' cover building.

Organizational Maintenance Shop (00311)

The Organizational Maintenance Shop functions as a vehicle maintenance and repair shop for 1LT A.J. Ellison USARC. Constructed in 1957, it is a one-story rectangular building that rests on a concrete foundation and has concrete block walls and a brick veneer (Figure 380). Three metal overhead-retractable bay doors are located on the south side of the building between four brick pilasters. There is a single metal pedestrian door on the west side of the building as well. Brick pilasters are also located on the north and east sides of the building. A low-pitch shed roof covers the structure.

Eligibility

1LT A.J. Ellison USARC does not meet the qualifications for nomination to the National Register of Historic Places, under Criteria A, B, C, or D, and thus is recommended not eligible to the National Register of Historic Places. A records search combined with an on-site investigation of the facility determined that there is no direct relationship between the facility and prehistoric or historic events (Criterion A), there is no association with significant persons involved in prehistoric or historic events (Criterion B), buildings on

³ Ibid.

⁴ Gary Miller, Facilities Manager, 1LT A.J. Ellison USARC, Personal Communication, 29 September 1997.

the facility are not architecturally or technologically significant (Criterion C), and the facility is unlikely to hold future research potential (Criterion D).

Recommendations

No additional review under Section 110 of the National Historic Preservation Act (NHPA) is recommended. However, additional review will be necessary if specific undertakings require compliance with Section 106 of the NHPA (36 CFR 800).

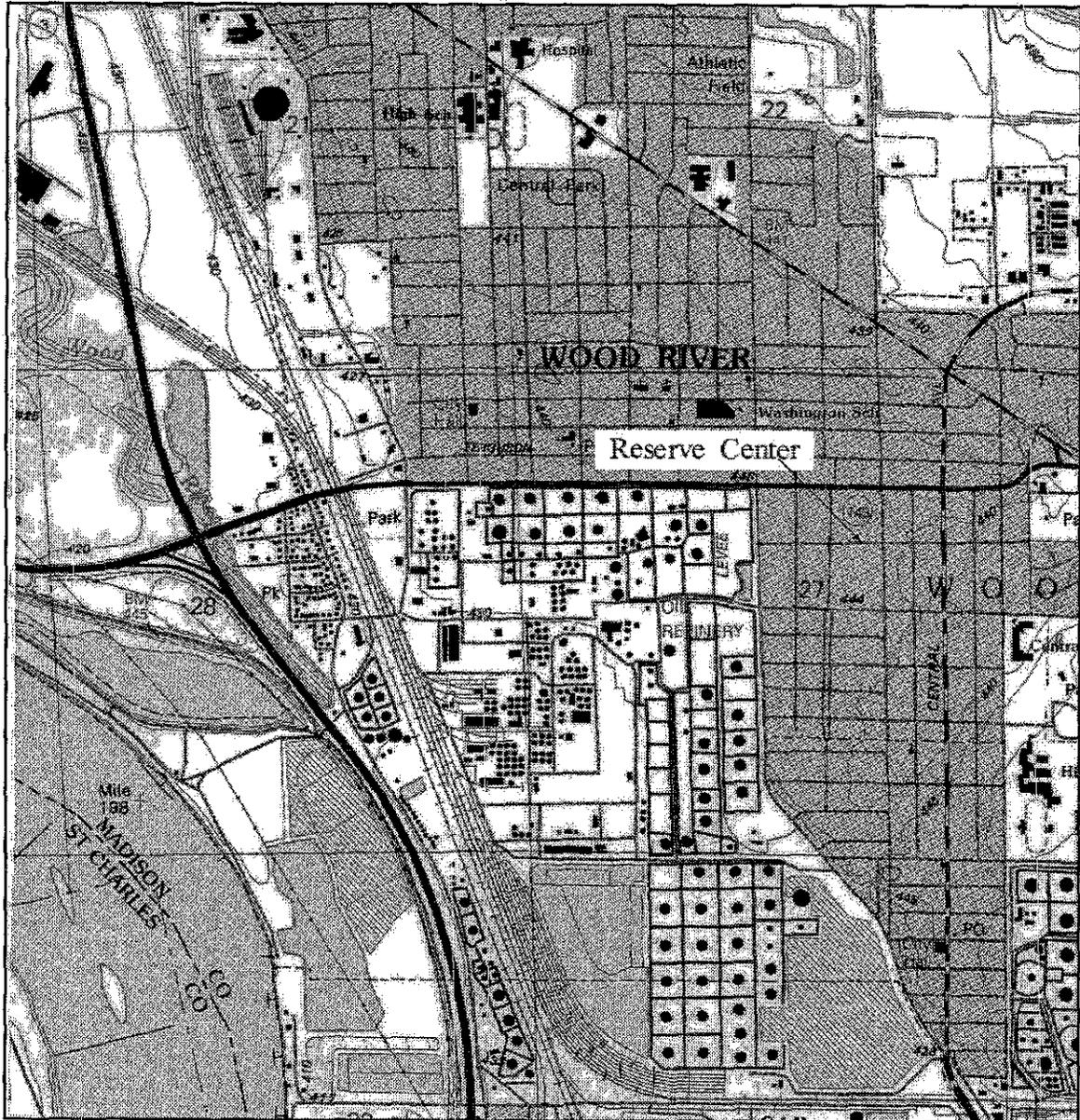
Sources

Fecht, William G. "Illinois State Museum Archaeological Survey: Sawyer Site (Ms-7)." Illinois State Historic Preservation Office, Springfield Illinois. 1949.

Harn, A.D. "Illinois Archaeological Survey: Kapple Mound (ISM-Ms-329)" Illinois State Historic Preservation Office in Springfield, Illinois. 1962.

Illinois: A Descriptive and Historic Guide. ed. Harry Hansen. New York, New York: Hastings House Publishers. 1974.

Miller, Gary. Facilities Manager, 1LT A.J. Ellison USARC. Personal Communication. 29 September 1997.



Wood River, Ill.-Mo. Quadrangle, USGS 7.5 Minute Series

Figure 378. Location of the 1LT A.J. Ellison USARC, Wood River, IL.

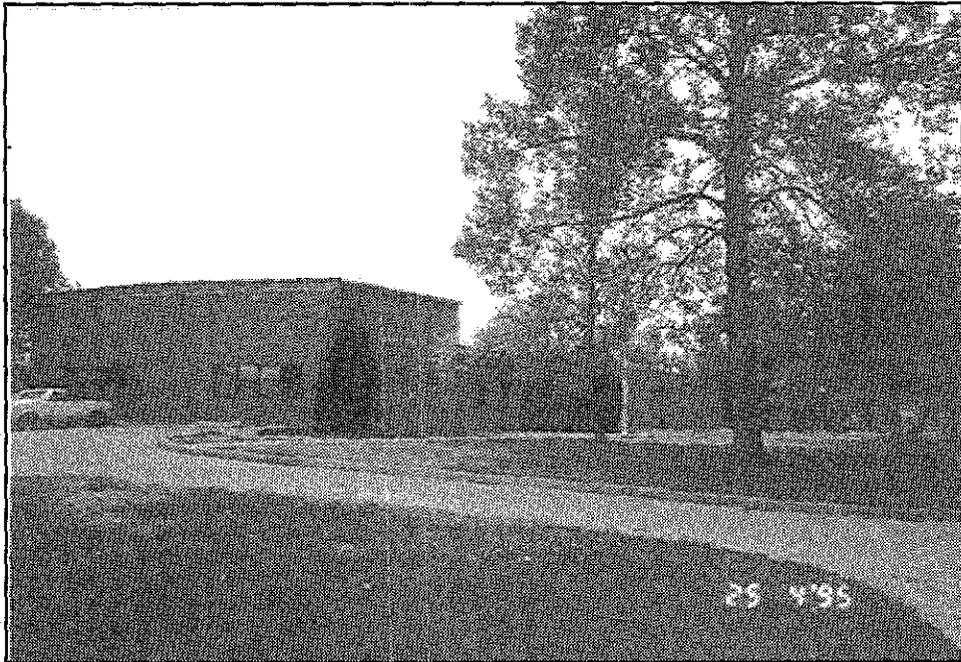


Figure 379. 1LT A.J. Ellison USARC: Reserve Center, facing SW.

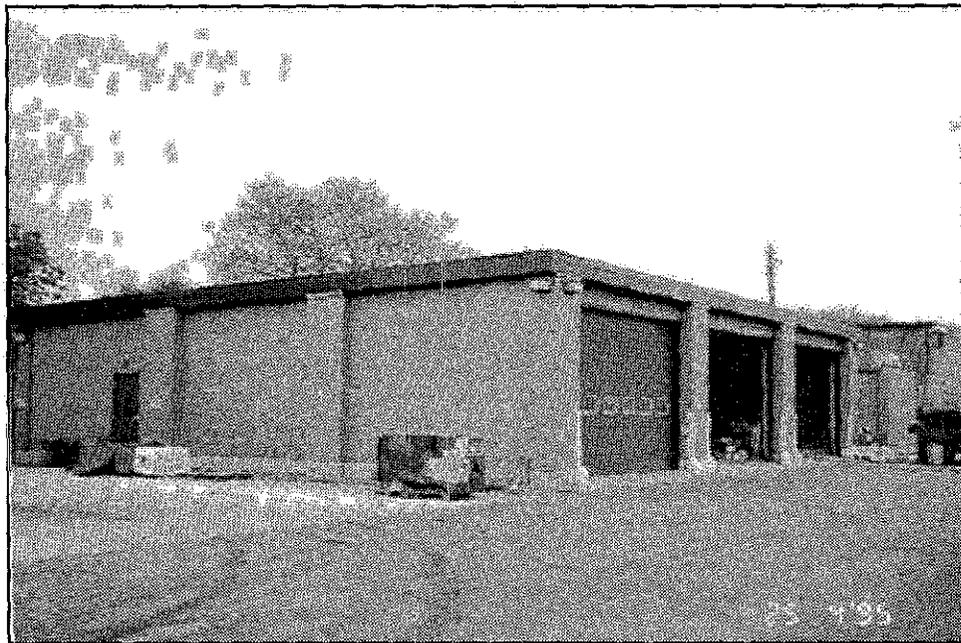


Figure 380. 1LT A.J. Ellison USARC: Organizational Maintenance Shop, facing NE.

ENVIRONMENTAL SURVEY REPORT
ASBESTOS, PCB, LEAD BASED PAINT AND RADON SURVEY
88TH Regional Support Command
WAUKEGAN, ILLINOIS (IL-074)
ADMINISTRATION BUILDING & OMS BUILDING

PREPARED FOR:

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Adecco Technical Task Order DAY A000003029



Gil Bakshi

Gil Bakshi, MA

President

24 February, 2006

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Signature of Asbestos Inspector .


Brian Gibson, 24 February, 2006

1.0 INTRODUCTION

International Training Institute of South Florida, Inc. (ITI) has performed a site survey for the 88th Regional Support Command (RSC) property located at the Waukegan AFRC, Belleville, IL (IL-074). ITI's work was based on a scope of work prepared by the 88th RSC and administered under Adecco Technical Task Order DAY A000003029.

2.0 PURPOSE

This report provides information concerning the potential types, quantities, locations, and condition of asbestos containing materials, polychlorinated biphenyls (PCBs), lead based paint (LBP) and radon.

The purpose of this document is to assist the 88th RSC in complying with federal and state regulations concerning Asbestos, PCB's, LBP's, and Radon. ITI's evaluation is based on a site inspection, information obtained from available documentation located at the site and the 88th RSC, and interviews with persons knowledgeable about the current and past history of the site.

3.0 SITE DESCRIPTION

ADMINISTRATION BUILDING

This two story building has exterior brick walls, interior block walls with gypsum board and a built up asphalt roof. This building contains approximately 29,168 square feet of floor space.

OMS BUILDING

This one story building has exterior brick walls, interior block walls and a built up asphalt roof. This building contains approximately 4,103 square feet of floor space.

3.1 SCOPE OF WORK

ITI has conducted one or more of the following tasks at this site: collect radon samples, conduct a lead based paint inspection, identify PCBs and asbestos inspection.

- Conduct radon testing at all identified 88th RSC sites for radon gas concentration levels and review all previous radon test results provided by the government.

- Determine levels of radon gas by installing passive detection equipment (alpha track) in specific buildings of the selected facilities.
- Utilize the laboratory that supplied the alpha track radon detectors for analysis.
- Evaluate each facility by age to determine the potential for existence of lead based paint (LBP) and review any previous LBP surveys conducted by the government
- Where the potential for LBP is determined, ITI will conduct a visual inspection of all (but not limited to) of the following surfaces; doors, door casings and frames, walls, upper and lower, windows sashes, stair stringers, treads, and handrails, ceilings, vents, structural steel, HVAC ducts and window guards at each facility. Samples of suspect surfaces will be conducted by using a portable, on-site measuring instrument that uses X-Ray Fluorescence to determine the existence of LBP.
- Include all information observed as part of the final report to include all existing LBP and its condition, along with all sample locations (CAD drawings and/or field notes).
- Evaluate each facility by age to determine the potential for the existence of PCBs and review any previous PCB surveys conducted by the government.
- Where the potential for PCBs is determined, ITI will conduct a visual inspection of each facility to determine the existence of PCBs and identify all potential equipment. This will require ITI to randomly open one or more like types of equipment to visually confirm the existence of PCB containing material within the equipment.
- Include all information as part of the final report to include all equipment and its condition, potentially containing PCBs.
- Review all previous asbestos surveys conducted by the government.
- ITI will visually inspect each facility and visually verify all information found in previous surveys and note any variances and/or missing data.
- ITI will identify all asbestos containing materials (ACM) and any potential asbestos containing material (PACM), estimate the amount in the entire building and determine and record the condition of the ACM and PACM in the survey. Samples will be collected on friable PACM only. PACM identified in the significantly damaged and damaged conditions will be analyzed. Friable PACM in good condition will only be analyzed with the approval for the COR or his representative. ITI will maintain and store all samples collected until sent for analysis or authorized disposal by the COR or his representative. All samples not analyzed will be disposed of in accordance with all Federal, State and Local regulations. Any friable ACM or PACM in significantly damaged or damaged condition will be brought to the attention of the COR or his representative as soon as possible.
- ITI will include all information as part of the final report to include all existing ACM, any PACM and the condition of both existing asbestos and PACM.

- Installation and retrieval of government owned alpha tract radon detectors.
- ITI must document all new data and integrate the 88th RSC information into the final report.

3.2 EXECUTIVE SUMMARY

ASBESTOS

Based on ITI's survey of the building, ITI has concluded the following materials contain asbestos:

ADMINISTRATION BUILDING

CONFIRMED ASBESTOS

- 9" x 9" Brown vinyl floor tile with beige streaks (VFT-1)
 - Located in Hallways, and Rooms 117A and 117B, and as patches throughout facility
- Black mastic under floor tiles
 - Located throughout facility

PRESUMED ASBESTOS

- Roofing Materials
 - Good condition, non friable, NF1
- Fire Doors
 - Good condition
- Electrical Wiring
- Vibration damping cloth
 - Located on HVAC ducts

OMS BUILDING

CONFIRMED ASBESTOS

- None found

PRESUMED ASBESTOS

- Roofing Materials
 - Good condition, non friable, NF1
- Fire Doors
 - Good condition
- Electrical Wiring

PCB'S

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

ADMINISTRATION BUILDING

- Light Ballasts – Advance 34R-2534-TP
 - Contains label stating “No PCB’s”
- Light Ballasts – Advance III R-140-1-TP
 - Contains label stating “No PCB’s”
- Light Ballasts – Advance Mark III R-2540-1-TP
 - Contains label stating “No PCB’s”
- Light Ballasts – Advance R-140-1-TP
 - Contains label stating “No PCB’s”
- Light Ballasts – Advance R-2540-1-TP
 - Contains label stating “No PCB’s”
- Light Ballasts – Advance RQM-2540-3-TP
 - Contains label stating “No PCB’s”
- Light Ballasts – Advance RQM-2540-3-TP
 - Assumed to contain PCB’s, as there is no label
- Light Ballasts – Advance Standard REL-2P32-SC
 - Contains label stating “No PCB’s”
- Light Ballasts – Universal 446-LR-TC-P
 - Contains label stating “No PCB’s”
- Light Ballasts – Universal Magnatek 446-L-SLH-TC-P
 - Contains label stating “No PCB’s”
- Light Ballasts – Universal RQM-2540
 - Assumed to contain PCB’s, as there is no label

OMS BUILDING

- Lights too high to reach

TRANSFORMERS

There are 3 transformers on a pole, on the north side of the building. Each transformer has the number "3TI-9012-25" on it. Assumed to contain PCB's.

LEAD BASED PAINTS

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

Administration Building

- Room 102 Classroom
 - Door
 - Wood, Beige
- Room 103
 - Door Jamb
 - Metal, Dark Yellow
- Room 106 Copy Room
 - Door Jamb
 - Metal, Dark Yellow
- Stairs Near Mechanical Room
 - Baseboards
 - Treads
 - Risers
 - Newel Post
 - Stringer
 - Balusters
 - Railing Cap
 - Metal, Gray
- Room 110 Retention
 - Door Jamb
 - Metal, Yellow
- Room 111 Bathroom
 - Door Jamb
 - Metal, Dark Yellow
- Room 113 Office
 - Door Jamb and Casing
 - Metal, Dark Yellow
- Room 121 Office
 - Door Jamb
 - Metal, Dark Yellow
- Room 122 Women's Restroom
 - Door Casing
 - Metal, Dark Yellow
 - Door Jambs
 - Metal, Yellow
 - Wall
 - Ceramic Tile
- Room 123 Men's Restroom
 - Ceramic Tile Wall
 - Blue

- Room 128 Kitchen
 - Door Jamb
 - Metal, Dark Yellow
- Room 139 Basement Hall
 - Glazed Grey Block
- Bathroom, 2nd Floor
 - Ceramic Tile Glazed Blocks
 - Green
- Hallway, 2nd Floor
 - Ceramic Tile Glazed Blocks
 - Grey
- Room 102A
 - Door
 - Wood, Natural Color
- Room 137B Bath
 - Glazed Green Block
- Room 138A
 - Glazed Green Block
- Room 138B
 - Glazed Green Block

OMS Building

- Garage Door Casings
 - Metal, Yellow
- Columns (Upper and Lower)
 - Metal, Yellow

Tested areas are consistent throughout this building. Items such as painted yellow metal door jambs, casing and columns should be treated as lead in both buildings. All ceramic glazed blocks and ceramic tiles should contain lead.

RADON

- In 2002, radon testing was performed in both the USARC and OMS Buildings. There were two high readings in the USARC Building, in Room 118H. Subsequent testing was performed in September of 2005. Thirty three detectors were installed, and thirty two were retrieved. All results were below 4 pCi/L, including the detector in Room 118H, which had a reading of 0.6 pCi/L.

4.0 PREVIOUS INSPECTIONS

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

4.1 ASBESTOS

- NO PREVIOUS INSPECTIONS

4.2 PCB'S

- NO PREVIOUS INSPECTIONS

4.3 LEAD BASED PAINT

- NO PREVIOUS INSPECTIONS

4.4 RADON

- NO PREVIOUS INSPECTIONS

5.0 ASBESTOS CONTAINING MATERIALS

During this survey conducted on 09 July 2002 and on 20 September 2005, ITI accredited building inspectors Mr. Angel Menendez (License Number 100-9988), and Mr. Brian Gibson (License Number 100-10758), performed a walk-through of the subject building. This was performed in order to identify and delineate locations of homogeneous materials suspected of containing asbestos. A homogeneous material is defined as material that presents similar distinguishing features such as contents. Once homogeneous materials were identified, Mr. Menendez and Mr. Gibson collected bulk samples from these materials in order to confirm the presence or absence of asbestos. Samples were collected in accordance with U.S. Environmental Protection Agency (EPA) and Occupational Safety and Health Administration (OSHA).

BULK SAMPLES

During the Inspection, sampling locations were recorded on floor plans and are identified in Appendix A of this report.

A.E.S.L., Inc. located in Phoenix, AZ is the laboratory ITI used for analysis of bulk samples. This independent laboratory successfully participates in the National Voluntary Laboratory Accreditation Program (NVLAP) for bulk asbestos sample analysis. The samples are analyzed using Polarized Light Microscopy (PLM) analysis methodology coupled with dispersion staining solutions to distinguish the unique optical properties of mineral forms. Employing this method of analysis allows asbestos fiber characteristics to colonize, which enables the microscopist to verify the presence or absence, quantity and type of asbestos in the samples. Any product that contains more than one percent asbestos is considered to be ACM by EPA & OSHA. ITI

performed QA/QC sampling for the total collected bulk samples (minimum of 10%). PLM results will be located in Appendix A to this report.

5.1 ASSESSMENT METHODOLOGY

All Asbestos Containing Building Materials (ACBM) were classified into the following three types of suspect materials:

1. Surfacing Materials
2. Thermal System Insulation (TSI)
3. Miscellaneous Materials

ACM identified during the building survey was assessed according to the protocol described in 40 CR 763. The protocol evaluates the risk of exposure to airborne asbestos fibers by assessing the condition of each ACM and potential for that ACM to be disturbed and generate fibers. ACM was assessed according to each of the following factors:

- (1) Damaged or significantly damaged thermal system insulation ACM.
- (2) Damaged friable surfacing ACM.
- (3) Significantly damaged friable surfacing ACM.
- (4) Damaged or significantly damaged friable miscellaneous ACM.
- (5) ACBM with potential for damage.
- (6) ACBM with potential for significant damage.
- (7) Any remaining friable ACBM or friable suspected ACBM.

ASSESSING CONDITION AND FRIABILITY

NATIONAL EMISSIONS FOR HAZARD AIR POLLUTANTS, 40 CFR Part 61, Subpart M, definitions for asbestos:

- Friable (F): ACM that can be crumbled, crushed, or reduced to powder by hand pressure.
- Nonfriable Category 1(NF1): Asbestos containing packing, gaskets, resilient floor coverings, asphalt roofing products, caulks, and mastics. These bituminous materials are assumed to remain nonfriable if demolition is performed using “normal” methods, but will become friable if severely weathered, sanded, or abraded.

- Nonfriable Category 2 (NF2): ACM excluding Category 1 nonfriable ACM, that, when dry and in its present form, cannot be crumbled, pulverized or reduced to powder by hand pressure; however, these materials may become friable during demolition activities. These products include Transite board and asbestos cement products.

The condition of ACM including severity and extent of damage is classified into one of the following categories:

- Significantly Damaged: ACM that is crumbled, blistered, gouged, marred, delaminated, or otherwise damaged either uniformly or locally over a substantial portion of its surface area.
- Damaged: ACM that is crumbled, blistered, gouged, marred, delaminated, or otherwise damaged either uniformly or locally over a small portion of its surface area.
- Good: ACM with very little or no damage.
- Potential for Disturbance: The potential for disturbance of each ACM was evaluated with respect to the types and frequency of occupancy, whether the ACM was accessible to area occupants, including vibration and air erosion.

5.2 ASBESTOS CONTAINING MATERIALS

ADMINISTRATION BUILDING

CONFIRMED ASBESTOS

- 9" x 9" Brown vinyl floor tile with beige streaks (VFT-1)
 - Located in Hallways, and Rooms 117A and 117B, and as patches throughout facility
 - Good condition, NF-1
- Black mastic under floor tiles
 - Located throughout facility
 - Good condition, NF-1

PRESUMED ASBESTOS

- Roofing Materials
 - Good condition, non friable, NF1
- Fire Doors
 - Good condition
- Electrical Wiring
- Vibration damping cloth
 - Located on HVAC ducts
 - Good condition, NF-1

OMS BUILDING

CONFIRMED ASBESTOS

- None found

PRESUMED ASBESTOS

- Roofing Materials
 - Good condition, non friable, NF1
- Fire Doors
 - Good condition
- Electrical Wiring

5.3 NON ASBESTOS CONTAINING MATERIAL

ADMINISTRATION BUILDING

- 9" x 9" Red floor tile (VFT-2)
- 12' x 12" Yellow floor tile (VFT-3)
- Grey floor tile (VFT-5)
- Yellow mastic, located under red, yellow, and grey floor tiles
- Grey baseboards (BB-1)
- Black baseboards (BB-2)
- Gypsum wallboard walls and components (PWB-1)
- 2' x 4' White ceiling tiles (CT-1)
- 2' x 2' White ceiling tiles (CT-2)
- Exterior door frame sealant (EM-1)
- Thermal system insulation on pipes in boiler room chases (TSI-1)
- Exterior window glaze (WG-1)

OMS BUILDING

- No suspect materials were found, so not sampling was conducted

6.0 POLYCHLORINATED BIPHENYL

PCBs are mixtures of chlorinated biphenyls that are relatively nonflammable and have useful heat exchange and dielectric properties. PCBs were used in the electric industry as dielectric fluid in capacitors and transformers until 1976, when PCBs were banned from use because of their carcinogenic properties. PCBs were also used in the formulation of lubricating oils, pesticides, adhesives, plastics, inks, paints, and sealants. ITI inventoried electrical transformers and light ballasts as part of its scope.

The primary uses of potential PCB materials are associated with transformers (i.e., pad-, pole-, or wall-mounted) or light ballast. ITI recorded available information, such as the manufacturer, serial and model number, condition, date of manufacture, and location of potential PCB-containing equipment.

The principal requirements for PCB management are detailed in the Toxic Substances Control Act (TSCA) federal regulatory program, Title 40; Subchapter R, Part 761, Code of Federal Regulations (CFR). CFR Title 40 Part 761 establishes regulations for the use, storage, removal, disposal, and testing of PCB-containing equipment.

ITI used these management requirements regarding onsite PCB management as guidelines during the Site investigation.

6.1 PCB INVENTORY

ITI personnel observed the following: - Refer to drawing in Appendix B for inspection locations.

ADMINISTRATION BUILDING

- Light Ballasts – Advance 34R-2534-TP
 - Contains label stating “No PCB’s”
- Light Ballasts – Advance III R-140-1-TP
 - Contains label stating “No PCB’s”
- Light Ballasts – Advance Mark III R-2540-1-TP
 - Contains label stating “No PCB’s”
- Light Ballasts – Advance R-140-1-TP
 - Contains label stating “No PCB’s”
- Light Ballasts – Advance R-2540-1-TP
 - Contains label stating “No PCB’s”
- Light Ballasts – Advance RQM-2540-3-TP
 - Contains label stating “No PCB’s”
- Light Ballasts – Advance RQM-2540-3-TP
 - Assumed to contain PCB’s, as there is no label
- Light Ballasts – Advance Standard REL-2P32-SC
 - Contains label stating “No PCB’s”
- Light Ballasts – Universal 446-LR-TC-P
 - Contains label stating “No PCB’s”
- Light Ballasts – Universal Magnatek 446-L-SLH-TC-P
 - Contains label stating “No PCB’s”
- Light Ballasts – Universal RQM-2540
 - Assumed to contain PCB’s, as there is no label

OMS BUILDING

- Lights too high to reach

TRANSFORMERS

There are 3 transformers on a pole, on the north side of the building. Each transformer has the number "3TI-9012-25" on it. Assumed to contain PCB's.

7.0 LEAD BASED PAINT

During this survey, ITI inspector, Mr. Narciso Martinez performed a walk-through of the subject buildings on 15 June and 17 June 2002 for LBP. This was performed in order to identify and delineate locations that would be sampled for lead based paint.

During the Inspection, sampling locations were recorded on working drawings and are identified in Appendix C of this report.

Samples were taken using an X-ray Fluorescence (XRF) Analyzer RMD Model LPA-1 (Serial Number 01908) manufactured by RMD, Inc. of Watertown, MA. An XRF analyzer works by exposing a paint surface to radiation emitted from a sealed source inside the instrument. The source of this radiation is cobalt-57 isotope. This radioactive material spontaneously emits energy in the form of X rays and gamma rays. When these rays are released from an XRF analyzer and hit a painted surface, the elements in the paint matrix - which can include lead - are excited and respond by emitting energy in the form of X rays characteristic of each of the elements. This response is known as Fluorescence.

In 1990 the Department of Housing and Urban Development issued the first comprehensive document addressing lead based paint in housing. This document, Lead based paint: Interim Guidelines for Hazard Identification and Abatement in Public and Indian Housing established criteria for conducting lead based paint inspections in public and Indian housing.

This Interim Guidelines described how to conduct a lead based paint inspection. State and Federal regulations use the XRF analyzer or laboratory analysis and specify a reading of 1.0 milligrams per square centimeter (XRF) and 0.5 percent by weight (Paint Chips) as the levels that require abatement.

See Appendix C for XRF report.

7.1 LEAD BASED PAINT

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

Administration Building

- Room 102 Classroom
 - Door
 - Wood, Beige
- Room 103
 - Door Jamb
 - Metal, Dark Yellow
- Room 106 Copy Room
 - Door Jamb
 - Metal, Dark Yellow
- Stairs Near Mechanical Room
 - Baseboards
 - Treads
 - Risers
 - Newel Post
 - Stringer
 - Balusters
 - Railing Cap
 - Metal, Gray
- Room 110 Retention
 - Door Jamb
 - Metal, Yellow
- Room 111 Bathroom
 - Door Jamb
 - Metal, Dark Yellow
- Room 113 Office
 - Door Jamb and Casing
 - Metal, Dark Yellow
- Room 121 Office
 - Door Jamb
 - Metal, Dark Yellow
- Room 122 Women's Restroom
 - Door Casing
 - Metal, Dark Yellow
 - Door Jambs
 - Metal, Yellow
 - Wall
 - Ceramic Tile
- Room 123 Men's Restroom
 - Ceramic Tile Wall
 - Blue

- Room 128 Kitchen
 - Door Jamb
 - Metal, Dark Yellow
- Room 139 Basement Hall
 - Glazed Grey Block
- Bathroom, 2nd Floor
 - Ceramic Tile Glazed Blocks
 - Green
- Hallway, 2nd Floor
 - Ceramic Tile Glazed Blocks
 - Grey
- Room 102A
 - Door
 - Wood, Natural Color
- Room 137B Bath
 - Glazed Green Block
- Room 138A
 - Glazed Green Block
- Room 138B
 - Glazed Green Block

OMS Building

- Garage Door Casings
 - Metal, Yellow
- Columns (Upper and Lower)
 - Metal, Yellow

Tested areas are consistent throughout this building. Items such as painted yellow metal door jambs, casing and columns should be treated as lead in both buildings. All ceramic glazed blocks and ceramic tiles should be assumed to contain lead.

7.2 RESPONSIBLE AGENCIES

Various groups and governmental bodies have responsibilities for conducting, evaluating the quality of, or developing a hazard control strategy based upon lead based paint testing. These groups include, but not limited to the following:

- State, Indian tribe, and local governments;
- The US Department of Housing and Urban Development (HUD);
- The US Environmental Protection Agency (EPA);
- Housing authorities;
- Homeowners and landlords; and
- Lead based paint inspectors, risk assessors, and hazard control contractors.

8.0 RADON

Radon is formed from the radioactive decay of radium, a breakdown product of uranium found in minute quantities in most soils. Because radon is an inert gas, it does not react with soil; soil merely serves as a channel through which the gas moves. Soil composition alone is not a good indicator of potential indoor radon problems because radon levels can vary considerably, by as much as a factor of 20 to 100, in the same geographic area.

The EPA regulates the maximum allowable exposure levels for radon and recommends that action be taken to reduce the levels if radon concentrations in a structure that exceeds 4 picocuries per liter (pCi/l) in air.

The objective of the Army Radon Reduction Program (ARRP) is to identify and modify all building structures owned or leased by the Army that have indoor radon concentrations greater than 4 pCi/l. According to the ARRP, if the radon concentration is 4 pCi/l or less and the measured building is geologically and structurally representative of the installation, no further action is required. ITI has conducted radon surveys at this site in February of 2002 and in September of 2005, which included placement, retrieval, and analysis of alpha track canisters, which detect alpha particles emitted from radon.

- In 2002, radon testing was performed in both the USARC and OMS Buildings. There were two high readings in the USARC Building, in Room 118H. Subsequent testing was performed in September of 2005. Thirty three detectors were installed, and thirty two were retrieved. All results were below 4 pCi/L, including the detector in Room 118H, which had a reading of 0.6 pCi/L.

9.0 ACTION SUMMARY

ASBESTOS

Based on ITI's survey of the building, ITI has concluded the following material contain asbestos:

ADMINISTRATION BUILDING

CONFIRMED ASBESTOS

- 9" x 9" Brown vinyl floor tile with beige streaks (VFT-1)
 - Located in Hallways, and Rooms 117A and 117B, and as patches throughout facility
- Black mastic under floor tiles
 - Located throughout facility

PRESUMED ASBESTOS

- Roofing Materials
 - Good condition, non friable, NF1
- Fire Doors
 - Good condition
- Electrical Wiring
- Vibration damping cloth
 - Located on HVAC ducts

OMS BUILDING

CONFIRMED ASBESTOS

- None found

PRESUMED ASBESTOS

- Roofing Materials
 - Good condition, non friable, NF1
- Fire Doors
 - Good condition
- Electrical Wiring

Based on the findings above, ITI recommends the following:

- Observations for detected asbestos were based on visible and accessible materials; therefore, asbestos containing materials may be present in inaccessible areas such as ceiling plenums, crawl spaces, attics, etc.
- An imminent asbestos hazard was not present at the facility during the site visit.
- Develop and Implement and O & M Plan.

Based on the asbestos present in the building, ITI recommends the following:

➤ Develop and implement an O & M Plan for all known and suspect ACM. There are three primary objectives of the O & M program: (1) clean up existing contamination (2) minimize further fiber release by controlling access to ACM, and (3) maintain ACM until it is eventually removed. Properly prepared and implemented, this plan will document the building owner's prudence in dealing with asbestos in the building.

PCB'S

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

ADMINISTRATION BUILDING

- Light Ballasts – Advance 34R-2534-TP
 - Contains label stating “No PCB’s”
- Light Ballasts – Advance III R-140-1-TP
 - Contains label stating “No PCB’s”
- Light Ballasts – Advance Mark III R-2540-1-TP
 - Contains label stating “No PCB’s”
- Light Ballasts – Advance R-140-1-TP
 - Contains label stating “No PCB’s”
- Light Ballasts – Advance R-2540-1-TP
 - Contains label stating “No PCB’s”
- Light Ballasts – Advance RQM-2540-3-TP
 - Contains label stating “No PCB’s”
- Light Ballasts – Advance RQM-2540-3-TP
 - Assumed to contain PCB's, as there is no label
- Light Ballasts – Advance Standard REL-2P32-SC
 - Contains label stating “No PCB’s”
- Light Ballasts – Universal 446-LR-TC-P
 - Contains label stating “No PCB’s”
- Light Ballasts – Universal Magnatek 446-L-SLH-TC-P
 - Contains label stating “No PCB’s”
- Light Ballasts – Universal RQM-2540
 - Assumed to contain PCB's, as there is no label

OMS BUILDING

- Lights too high to reach

TRANSFORMERS

There are 3 transformers on a pole, on the north side of the building. Each transformer has the number "3TI-9012-25" on it. Assumed to contain PCB's.

Based on the findings above, ITI recommends the following:

- Observations for PCB's were based on visible and accessible materials, therefore, PCB's may be present in other ballasts not observed.
- An imminent PCB hazard was not present at the facility during the site visit.
- Any ballast not labeled "Non PCB's" must be handled according to Federal and State regulations for proper disposal.

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

Several light ballasts did not have a label stating the absence of PCBs. Without this statement the ballast is presumed to contain PCBs and must be handled accordingly. Additional testing may be required before this ballast is disturbed or disposed. At a minimum, requirements of 40 CFR 761 must be followed should sampling be required.

LEAD BASED PAINTS

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

Administration Building

- Room 102 Classroom
 - Door
 - Wood, Beige
- Room 103
 - Door Jamb
 - Metal, Dark Yellow
- Room 106 Copy Room
 - Door Jamb
 - Metal, Dark Yellow
- Stairs Near Mechanical Room
 - Baseboards
 - Treads
 - Risers
 - Newel Post
 - Stringer

- Balusters
 - Railing Cap
 - Metal, Gray
- Room 110 Retention
 - Door Jamb
 - Metal, Yellow
- Room 111 Bathroom
 - Door Jamb
 - Metal, Dark Yellow
- Room 113 Office
 - Door Jamb and Casing
 - Metal, Dark Yellow
- Room 121 Office
 - Door Jamb
 - Metal, Dark Yellow
- Room 122 Women's Restroom
 - Door Casing
 - Metal, Dark Yellow
 - Door Jambs
 - Metal, Yellow
 - Wall
 - Ceramic Tile
- Room 123 Men's Restroom
 - Ceramic Tile Wall
 - Blue
- Room 128 Kitchen
 - Door Jamb
 - Metal, Dark Yellow
- Room 139 Basement Hall
 - Glazed Grey Block
- Bathroom, 2nd Floor
 - Ceramic Tile Glazed Blocks
 - Green
- Hallway, 2nd Floor
 - Ceramic Tile Glazed Blocks
 - Grey
- Room 102A
 - Door
 - Wood, Natural Color
- Room 137B Bath
 - Glazed Green Block
- Room 138A
 - Glazed Green Block
- Room 138B
 - Glazed Green Block

OMS Building

- Garage Door Casings
 - Metal, Yellow
- Columns (Upper and Lower)
 - Metal, Yellow

Tested areas are consistent throughout this building. Items such as painted yellow metal door jambs, casing and columns should be treated as lead in both buildings. All ceramic glazed blocks and ceramic tiles should be assumed to contain lead.

Based on the findings above, ITI recommends the following:

- Observations for LBP's were based on visible and accessible materials; therefore, LBP's may be present in inaccessible areas.
- An imminent LBP hazard was not present at the facility during the site visit.
- Workers need to take appropriate safe guards when working, i.e., cutting, grinding, sanding, welding, etc., on areas identified with LBP.
- Conduct a TCLP for all areas identified with LBP prior to disposal.

RADON

- In 2002, radon testing was performed in both the USARC and OMS Buildings. There were two high readings in the USARC Building, in Room 118H. Subsequent testing was performed in September of 2005. Thirty three detectors were installed, and thirty two were retrieved. All results were below 4 pCi/L, including the detector in Room 118H, which had a reading of 0.6 pCi/L.

10.0 WARRANTY

The field and laboratory results reported herein (only if samples are collected and/or analyzed) are considered sufficient in detail and scope to determine the presence of accessible and/or exposed suspect asbestos, PCB's, LBPs or radon gas in the facility. ITI warrants that the findings contained herein have been prepared in general accordance with accepted professional practices at the time of its preparation as applied by similar professionals in the community. Changes in the state of the art or in applicable regulations cannot be anticipated and have not been addressed into this report.

The survey and analytical methods have been used to provide the client with information regarding the presence of accessible and/or exposed suspect asbestos, lead, PCB's or radon in the facility at the time of the inspection. Test results are valid only for material tested. There is a distinct possibility that conditions may exist which could not be identified within the scope of the study or which were not apparent during the site visit. This inspection covered only suspect accessible materials with no destructive survey techniques. The study is also limited to the information available from the client at the time it was conducted.

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

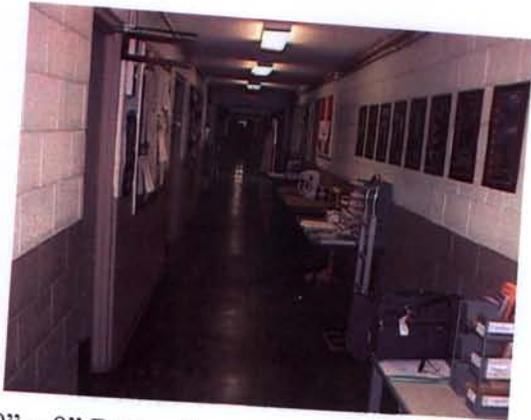
11.0 PHOTOS



USARC exterior



OMS exterior



9" x 9" Brown floor tiles; black mastic (VFT-1) Tiles and mastic contain asbestos



Grey floor tiles; yellow mastic (VFT-5) Non asbestos



Thermal system insulation on pipes
Non asbestos



Vibration damping cloths on HVAC
Presumed to contain asbestos

APPENDIX A

Illinois Facility - Asbestos Summary

FAC ID	Building	Confirmed ACM	Location	Condition
IL-074	USARC	9" x 9" Brown vinyl floor tile with beige streaks (VFT-1) Black mastic under floor tiles	Located in Hallways, and Rooms 117A and 117B, and as patches throughout facility Located throughout facility	Good Good
	OMS	None found		
FAC ID	Building	Presumed ACM	Location	Condition
IL-074	USARC	Roofing materials Fire doors Electrical coatings on wires Vibration damping cloth	Entire roof Located throughout Located throughout Located on HVAC ducts	Good Good Good Good
	OMS	Roofing materials Fire doors Electrical coatings on wires	Entire roof Located throughout Located throughout	Good Good Good

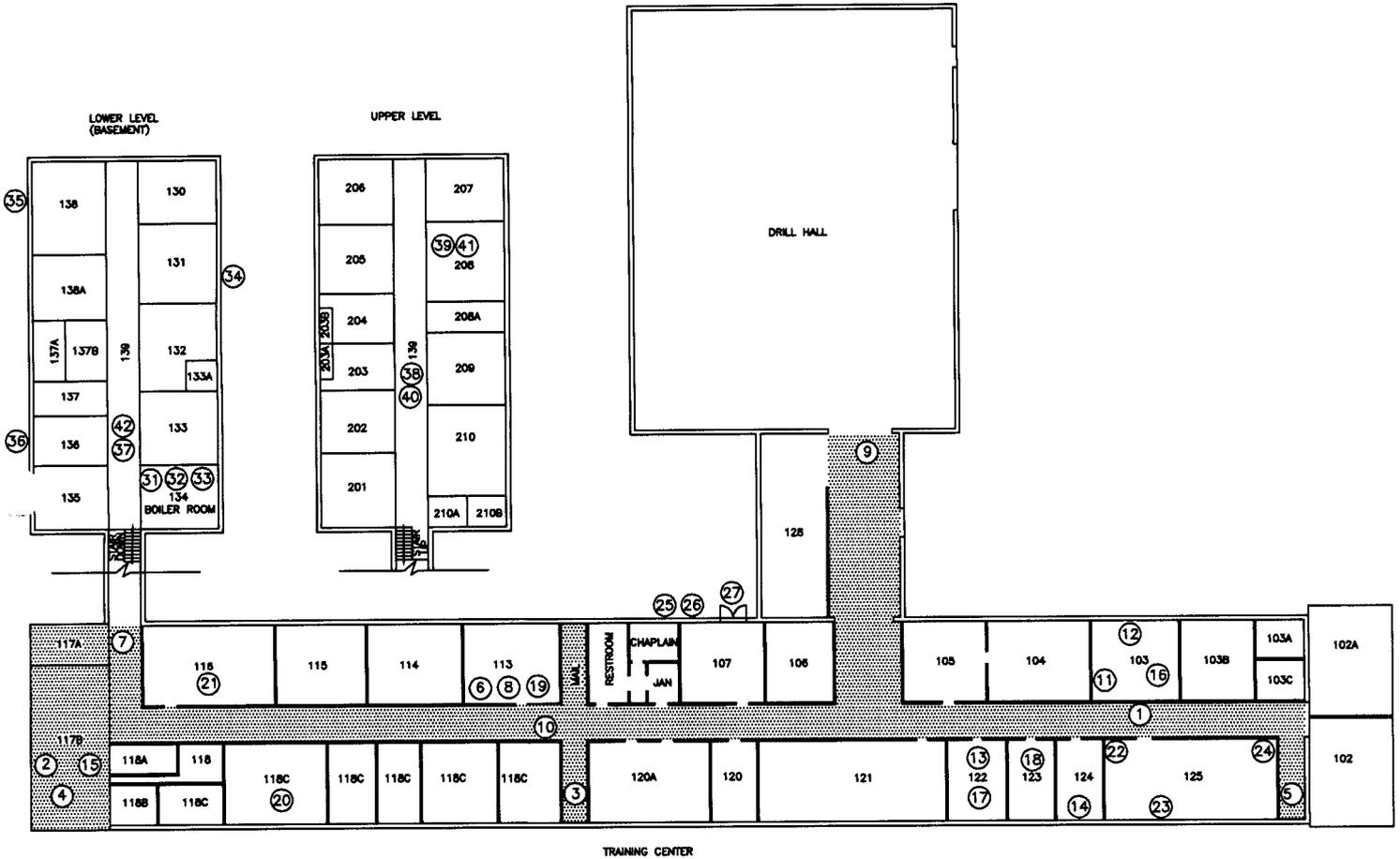
Confirmed Asbestos Containing Material



= VFT-1, 9" x 9" Brown floor tile
w/ Beige streaks

VFT-1 was located in halls & room 117 A/B
this tile was also found patching in repairs
through out the facility.

Black Mastic flooring adhesive is found through
out the facility under all vinyl floors



Ⓝ = Sampled Asbestos Locations
taken on : 9-27-05

USARC
2710 Central Ave
St. Petersburg, Fl. 33712

USARC IL-074
Waukegan

**Confirmed and Sampled
Asbestos Locations**

SCALE: NTS

BULK ASBESTOS ANALYSIS SUMMARY REPORT

CLIENT NAME: ITI of South Florida, Inc.
 2710 Central Avenue
 St. Petersburg, Florida 33712

DATE OF RECEIPT: September 27, 2005
SAMPLE CONDITION: Good
DATE ANALYZED: September 30, 2005

A.E.S.L. LABORATORY #: 05-A1485

PROJECT: ADECCO IL-074 Waukegan

A.E.S.L. LAB SAMPLE ID #	CLIENT SAMPLE ID #	SAMPLE DESCRIPTION & COLOR	TEST RESULTS		OTHER MATERIALS
			Pos. / Neg.	% & Type	
A1485-1 a	IL-074-1 a	VFT-1-1 – Brown Tile	Positive	2% Chrysotile	98% Non-Fibrous
A1485-1 b	IL-074-1 b	Black Mastic	Positive	2% Chrysotile	98% Non-Fibrous
A1485-2	IL-074-2	VFT-1-2 - NAAPCR	-----	-----	-----
A1485-3	IL-074-3	VFT-1-3 - NAAPCR	-----	-----	-----
A1485-4 a	IL-074-4 a	VFT-2-1 – Red Tile	Negative	-----	100% Non-Fibrous
A1485-4 b	IL-074-4 b	Yellow Mastic	Negative	-----	100% Non-Fibrous
A1485-5 a	IL-074-5 a	VFT-2-2 – Red Tile	Negative	-----	100% Non-Fibrous
A1485-5 b	IL-074-5 b	Yellow Mastic	Negative	-----	100% Non-Fibrous
A1485-6 a	IL-074-6 a	VFT-2-3 – Red Tile	Negative	-----	100% Non-Fibrous
A1485-6 b	IL-074-6 b	Yellow Mastic	Negative	-----	100% Non-Fibrous
A1485-7 a	IL-074-7 a	VFT-3-1 – Brown Tile	Negative	-----	100% Non-Fibrous
A1485-7 b	IL-074-7 b	Black Mastic	Trace	<1% Chrysotile	99% Non-Fibrous
A1485-8 a	IL-074-8 a	VFT-3-2 – Brown Tile	Negative	-----	100% Non-Fibrous
A1485-8 b	IL-074-8 b	Black Mastic	Trace	<1% Chrysotile	99% Non-Fibrous
A1485-9 a	IL-074-9 a	VFT-3-3 – Brown Tile	Negative	-----	100% Non-Fibrous
A1485-9 b	IL-074-9 b	Black Mastic	Trace	<1% Chrysotile	99% Non-Fibrous
A1485-10 a	IL-074-10 a	BB-1 – Black Cove Base	Negative	-----	100% Non-Fibrous
A1485-10 b	IL-074-10 b	Brown Mastic	Negative	-----	100% Non-Fibrous
A1485-11 a	IL-074-11 a	BB-2 – Black Cove Base	Negative	-----	100% Non-Fibrous
A1485-11 b	IL-074-11 b	Brown Mastic	Negative	-----	100% Non-Fibrous
A1485-12	IL-074-12	PCB-1-1 – Tan Material	Negative	-----	1% Cellulose 99% Non-Fibrous
A1485-13	IL-074-13	PCB-1-2 – Tan Material	Negative	-----	1% Cellulose 99% Non-Fibrous
A1485-14	IL-074-14	PCB-1-3 – Tan Material	Negative	-----	1% Cellulose 99% Non-Fibrous
A1485-15	IL-074-15	PWB-1-1 – White Material	Negative	-----	10% Cellulose 90% Non-Fibrous
A1485-16	IL-074-16	PWB-1-2 – White Material	Negative	-----	10% Cellulose 90% Non-Fibrous
A1485-17	IL-074-17	PWB-1-3 – White Material	Negative	-----	10% Cellulose 90% Non-Fibrous
A1485-18	IL-074-18	PWB-1-4 – White Material	Negative	-----	10% Cellulose 90% Non-Fibrous

A.E.S.L. LAB SAMPLE ID #	CLIENT SAMPLE ID #	SAMPLE DESCRIPTION & COLOR	TEST RESULTS		OTHER MATERIALS
			Pos. / Neg.	% & Type	
A1485-19	IL-074-19	CT-1-1 – White Ceiling Tile	Negative	-----	30% Cellulose 30% Mineral Wool 40% Non-Fibrous
A1485-20	IL-074-20	CT-1-2 – White Ceiling Tile	Negative	-----	30% Cellulose 30% Mineral Wool 40% Non-Fibrous
A1485-21	IL-074-21	CT-1-3 – White Ceiling Tile	Negative	-----	30% Cellulose 30% Mineral Wool 40% Non-Fibrous
A1485-22	IL-074-22	CT-2-1 – White Ceiling Tile	Negative	-----	30% Cellulose 30% Mineral Wool 40% Non-Fibrous
A1485-23	IL-074-23	CT-2-2 – White Ceiling Tile	Negative	-----	30% Cellulose 30% Mineral Wool 40% Non-Fibrous
A1485-24	IL-074-24	CT-2-3 – White Ceiling Tile	Negative	-----	30% Cellulose 30% Mineral Wool 40% Non-Fibrous
A1485-25	IL-074-25	EM-1-1 – Brown Material	Negative	-----	100% Non-Fibrous
A1485-26	IL-074-26	EM-1-2 – Brown Material	Negative	-----	100% Non-Fibrous
A1485-27	IL-074-27	EM-1-3 – Brown Material	Negative	-----	100% Non-Fibrous
A1485-28	IL-074-31	TSI-1-1 – White TSI	Negative	-----	20% Cellulose 80% Non-Fibrous
A1485-29	IL-074-32	TSI-1-2 – White TSI	Negative	-----	20% Cellulose 80% Non-Fibrous
A1485-30	IL-074-33	TSI-1-3 – White TSI	Negative	-----	20% Cellulose 80% Non-Fibrous
A1485-31	IL-074-34	WG-1-1 – Gray Material	Negative	-----	100% Non-Fibrous
A1485-32	IL-074-35	WG-1-1 – Gray Material	Negative	-----	100% Non-Fibrous
A1485-33	IL-074-36	WG-1-1 – Gray Material	Negative	-----	100% Non-Fibrous
A1485-34 a	IL-074-37 a	VFT-5-1 – Gray Tile	Negative	-----	100% Non-Fibrous
A1485-34 b	IL-074-37 b	Yellow Mastic	Negative	-----	100% Non-Fibrous
A1485-35 a	IL-074-38 a	VFT-5-2 – Gray Tile	Negative	-----	100% Non-Fibrous
A1485-35 b	IL-074-38 b	Yellow Mastic	Negative	-----	100% Non-Fibrous
A1485-36 a	IL-074-39 a	VFT-5-3 – Gray Tile	Negative	-----	100% Non-Fibrous
A1485-36 b	IL-074-39 b	Yellow Mastic	Negative	-----	100% Non-Fibrous
A1485-37	IL-074-40	BM-1-1 – Black Material	Negative	-----	3% Cellulose 97% Non-Fibrous
A1485-38	IL-074-41	BM-1-2 – Black Material	Negative	-----	3% Cellulose 97% Non-Fibrous
A1485-39	IL-074-42	BM-1-3 – Black Material	Negative	-----	3% Cellulose 97% Non-Fibrous

NAAPCR – Not Analyzed As Per Customer Request

Method: Polarized Light Microscopy, EPA Method 600/R-93/116

The result quantitations reported are an estimation based on the methods of visual microscopic estimation, which is considered only a semi-quantitative technique. Also, this report is indicative only of the sample material A.E.S.L. Laboratory received. Results do not necessarily reflect the makeup of the entire span of the material from which the samples were derived. Sampling techniques and/or sample handling may affect the integrity of the sample/s before submission to A.E.S.L. Laboratory and hence the outcome of the laboratory results. Samples not destroyed by testing are retained a minimum of thirty days.

A.E.S.L. Laboratory, recommends re-analysis by point count or Transmission Electron Microscopy (TEM) for materials that are found to contain less than ten percent (<10%) asbestos by PLM.

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Analyzed by:



Shawn Kearney

C:\DATA\AESL\BULK\05-A000\05-A1485.DOC

Turnaround Time: RUSH Same Day 24 Hour 48 Hour

Stop @ First Positive
 Read All Samples

BULK ASBESTOS SAMPLE
 CHAIN OF CUSTODY

Page 1 of 3

A.E.S.L. LABORATORY # : 05-A1485

Client Name: ITL Phone: 777-502-9223 581-0764 FAX

Address: 2710 CENTRAL AVE City: ST PETERS State: FL Zip: 33712

PROJECT NAME: ADECCO PROJECT ID: IL-074 WAKEGAN

Samples Collected By: B. Gibson DATE SAMPLES TAKEN: 9-20-05

SAMPLES REC'D (Y): 99 DATE REC'D: 9-27-05 CONDITION: Good SAMPLES ACCEPTED (Y, N, R): Y IF NO. WHT

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

A.E.S.L. Sample #	Client ID #	Sample Location	Sample Description	A.E.S.L. Sample #	Client ID #	Sample Location	Sample Description
	IL-074-1		VFT-1-1		IL-074-9		VFT-3-3
	-2		VFT-1-2		-10		BB-1
	-3		VFT-1-3		-11		BB-2
	-4		VFT-2-1		-12		PCB-1-1
	-5		VFT-2-2		-13		PCB-1-2
	-6		VFT-2-3		-14		PCB-1-3
	-7		VFT-3-1				
	-8		VFT-3-2				

RELINQUISHED BY: Ruth Williams Time: NOON DATE: 9-21-05

RECEIVED AT A.E.S.L. BY: CM DATE: 9-27-05

A.E.S.L. ENVIRONMENTAL LABORATORY
 1707 East Weber Drive, Suite 6
 TEMPE, ARIZONA 85281
 PHONE (480) 965-3711 FAX (480) 394-0188

Turnaround Time: Rush Same Day 24 Hour 48 Hour

Stop @ First Positive
 Read All Samples

BULK ASBESTOS SAMPLE
CHAIN OF CUSTODY

A.E.S.L. LABORATORY # : _____ Page 2 of 3
 Client Name: IFI
 Address: 2710 CENTRAL AVE Phone: 727.502.9223 581.0764 FAX
 PROJECT NAME: ADECCO City: SI PETE State: FL Zip: 33712
 Samples Collected By: B. Gibson PROJECT ID: 11-074
 SAMPLES REC'D (Y): _____ DATE REC'D: 9-20-05 CONDITION: _____

SAMPLES ACCEPTED (Y, N): _____ IF NO. WANT
 *** SAMPLES TO BE RETURNED TO CLIENT AFTER 30 DAYS OR DISPOSED OF BY A.E.S.L. (IF NOT SPECIFIED WILL AUTOMATICALLY BE DISPOSED OF AFTER 30 DAYS) ***

A.E.S.L. Sample #	Client ID #	Sample Location	Sample Description	A.E.S.L. Sample #	Client ID #	Sample Location	Sample Description
	11-074-15		PWB-1-1		11-074-22		CT-2-1
	-16		PWB-1-2		-23		CT-2-2
	-17		PWB-1-3		-24		CT-2-3
	-18		PWB-1-4		-25		EM-1-1
	-19		CT-1-1		-26		EM-1-2
	-20		CT-1-2		-27		EM-1-3
	-21		CT-1-3				

A.E.S.L. ENVIRONMENTAL LABORATORY
 1707 East Weber Drive, Suite 6
 TUCUMC, ARIZONA 85201
 PHONE (480) 966-3714 FAX (480) 394-0188

RELINQUISHED BY: Brian Gibson TIME: NOON DATE: 9-21-05
 RECEIVED AT A.E.S.L. BY: CM DATE: 9-27-05

Turnaround Time: Rush Same Day 24 Hour 48 Hour

Stop @ First Positive
 Read All Samples

**BULK ASBESTOS SAMPLE
 CHAIN OF CUSTODY**

Page **3** of **3**

A.E.S.L. LABORATORY # : _____
 Client Name: IFI Contact: B. Gibson Phone: 722.502.9223 581.0764 FAX
 Address: 270 CENTRAL AVE City: ST PETE State: FL Zip: 33702
 PROJECT NAME: ADECO PROJECT ID: 16-074
 Samples Collected By: B. Gibson DATE SAMPLES TAKEN: 9-20-05
 SAMPLES REC'D (#): _____ DATE REC'D: _____ CONDITION: _____ SAMPLES ACCEPTED (Y, N): _____ IF NO. MAY: _____

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

A.E.S.L. Sample #	Client ID #	Sample Location	Sample Description	A.E.S.L. Sample #	Client ID #	Sample Location	Sample Description
	<u>16-074-31</u>		<u>TS1-1-1</u>		<u>16-074-31</u>		<u>VFT-5-1</u>
	<u>-32</u>		<u>TS1-1-2</u>		<u>-38</u>		<u>VFT-5-2</u>
	<u>-33</u>		<u>TS1-1-3</u>		<u>-39</u>		<u>VFT-5-3</u>
	<u>-34</u>		<u>WG-1-1</u>		<u>-40</u>		<u>BM-1-1</u>
	<u>-35</u>		<u>WG-1-1</u>		<u>-41</u>		<u>BM-1-2</u>
	<u>-36</u>		<u>WG-1-1</u>		<u>-42</u>		<u>BM-1-3</u>

RELINQUISHED BY: Brian Gibson Time: AM DATE: 9-21-05
 RECEIVED AT A.E.S.L. BY: CA DATE: 9-27-05

A.E.S.L. ENVIRONMENTAL LABORATORY
 1701 East Weber Drive, Suite 6
 TEMPE, ARIZONA 85281
 PHONE (480) 965-3711 FAX (480) 394-0188

BULK ASBESTOS ANALYSIS SUMMARY REPORT

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

DATE OF RECEIPT: July 11, 2002
SAMPLE CONDITION: Good
DATE ANALYZED: July 12, 2002

A.E.S.L. LABORATORY #: 02-A761 **PROJECT:** Waukegan ARC
 Waukegan, IL

A.E.S.L. LAB SAMPLE ID #	CLIENT SAMPLE ID #	SAMPLE DESCRIPTION & COLOR	TEST RESULTS		OTHER MATERIALS
			Pos. / Neg.	% & Type	
A761-1	W 01	2 x 4 White and Gray Ceiling Tile	Negative	-----	20% Cellulose 20% Mineral Wool 60% Non-Fibrous
A761-2	W 02	2 x 4 White and Gray Ceiling Tile	Negative	-----	20% Cellulose 20% Mineral Wool 60% Non-Fibrous

Legend: NAAPCR - Not analyzed as per customer request

Comment:

Method: Polarized Light Microscopy, EPA Method 600/R-93/116

The result quantitations reported are an estimation based on the methods of visual microscopic estimation which is considered only a semi-quantitative technique. Also, this report is indicative only of the sample material A.E.S.L. Laboratory received. Results do not necessarily reflect the makeup of the entire span of the material from which the samples were derived. Sampling techniques and/or sample handling may affect the integrity of the sample/s before submission to A.E.S.L. Laboratory and hence the outcome of the laboratory results. Samples not destroyed by testing are retained a minimum of thirty days.

A.E.S.L. Laboratory, recommends re-analysis by point count or Transmission Electron Microscopy (TEM) for materials that are found to contain less than ten percent (<10%) asbestos by PLM.

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Analyst: *R. Keneson*
 Ronnie Keneson

C:\DATA\AESL\BULK\02-a000\02-A761.DOC

Turnaround Time: RUSH Same Day 24 Hour 48 Hour

Stop @ First Positive
 Read All Samples

**BULK ASBESTOS SAMPLE
 CHAIN OF CUSTODY**

Page of

A.E.S.L. LABORATORY # : 02A7d

Client Name: ITISF Contact: G Sakshi Phone: 727-5029223 Fax: 727-5810764

Address: 514 1st Ave SW City: ALBU State: FL Zip: 33770

PROJECT NAME: WALKEGAN ALC PROJECT ID: WALKEGAN I C

Samples Collected By: Angel Mercedes SAMPLES TAKEN: 1 JUL 02

SAMPLES REC'D (#): DATE REC'D: CONDITION: SAMPLES ACCEPTED (Y , N) : IF NO. WHY?

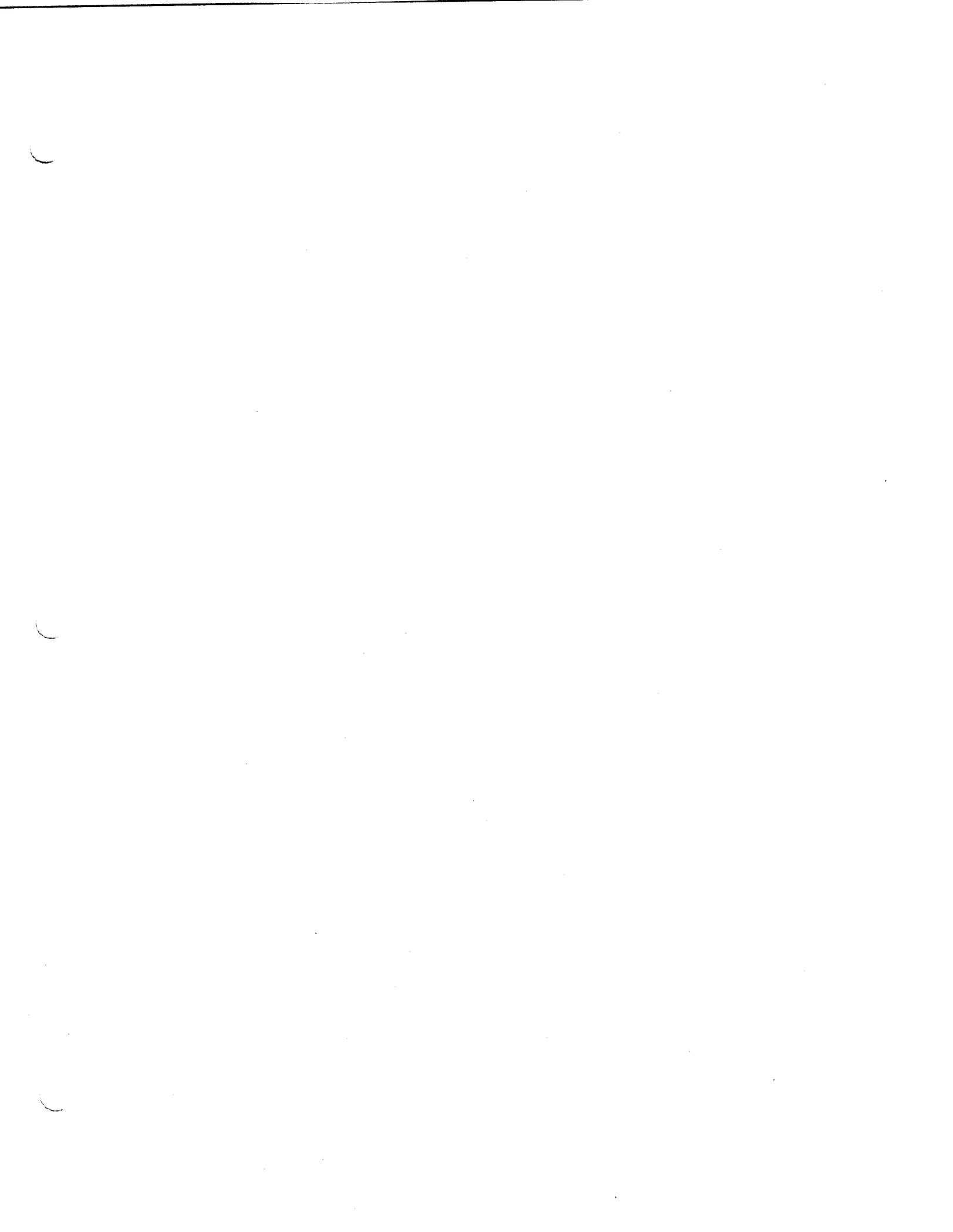
*** SAMPLES TO BE RETURNED TO CLIENT AFTER 30 DAYS OR DISPOSED OF BY A.E.S.L. (D O R) : ***
 (IF NOT SPECIFIED WILL AUTOMATICALLY BE DISPOSED OF AFTER 30 DAYS)

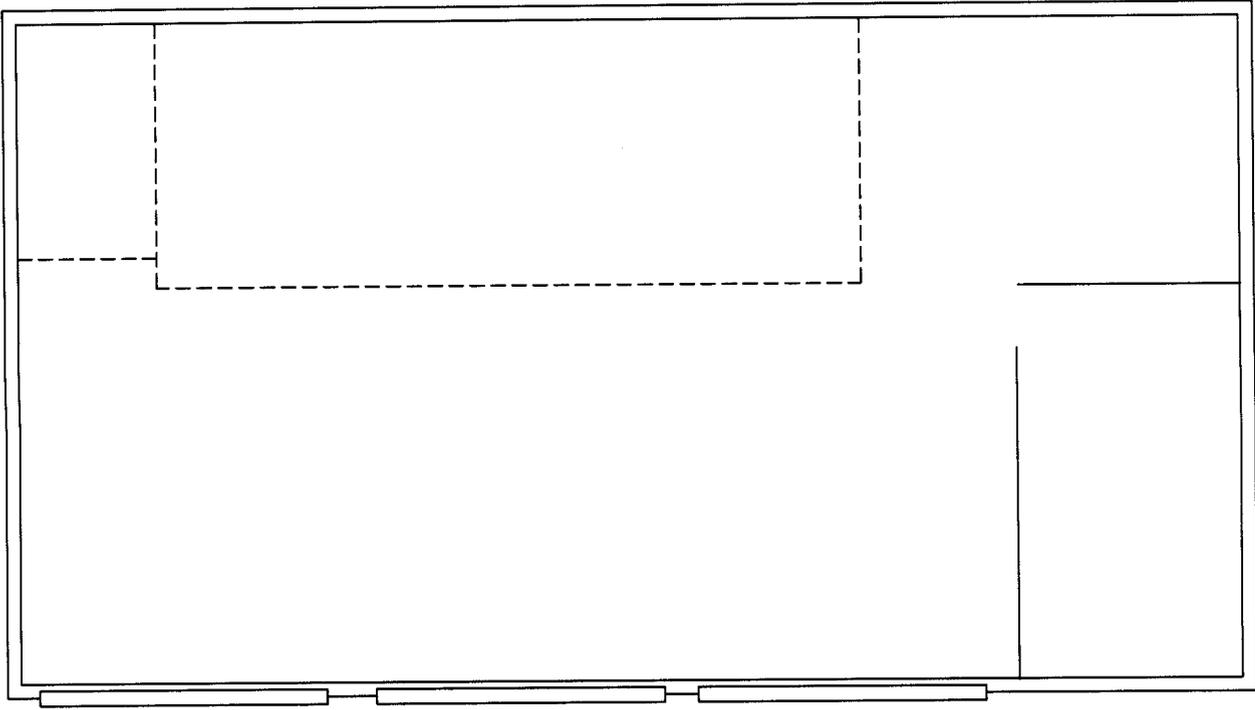
A.E.S.L. Sample #	Client ID #	Sample Location	Sample Description	A.E.S.L. Sample #	Client ID #	Sample Location	Sample Description
<u>W01</u>		<u>Holloway</u>	<u>C.T. tile 2x4</u>				
<u>W02</u>		<u>" "</u>	<u>8000 - GOOD</u>				

RELINQUISHED BY: [Signature] TIME: 1000 DATE: 9 JUL 02

RECEIVED AT A.E.S.L. BY: [Signature] RECEIVED DATE: 7 JUL 02

A.E.S.L. ENVIRONMENTAL LABORATORY
 1707 East Weber Drive, Suite 6
 TEMPE, ARIZONA 85281
 PHONE (480) 966-3714 FAX (480) 394-0188





LI

**2710 Central Ave
St. Petersburg, Fl. 33712**

**USARC IL-074
OMS**

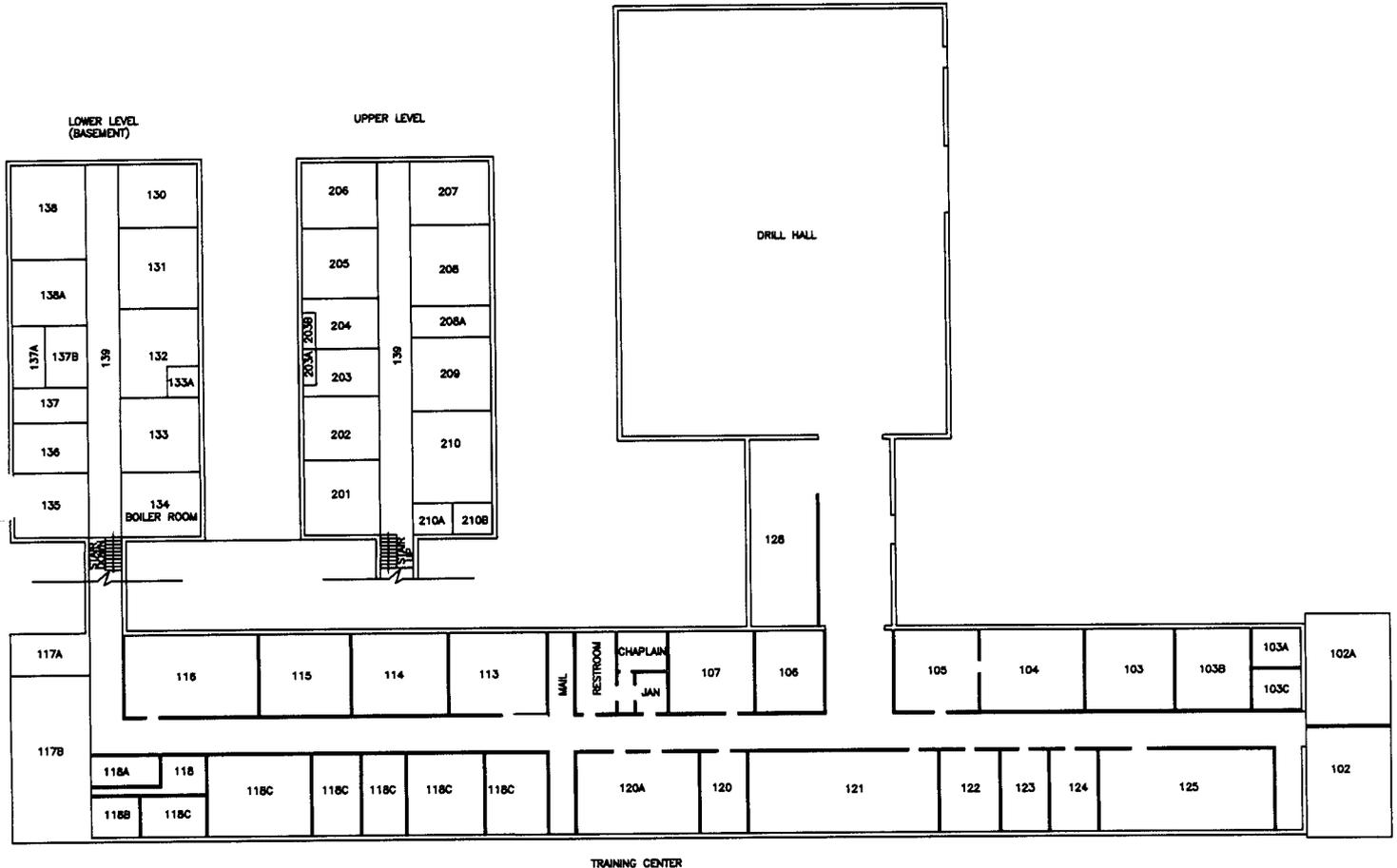
Floor Plan

SCALE: NTS

APPENDIX B

Room number/name	Ballast #/Manufacturer	Label Stating No PCB's?
IL - 074 USARC		
102 Classroom 1	Advance R-2540-1-TP	yes
102 Classroom 1	Advance R-2540-1-TP	yes
102A Classroom 2	Advance R-2540-1-TP	yes
102A Classroom 2	Advance R-2540-1-TP	yes
103A Hallway	Advance RQM-2540-3-TP	no
103B S-1	Advance RQM-2540-3-TP	no
103C Office	Advance R-2540-1-TP	yes
103D S-1	Advance RQM-2540-3-TP	no
103D S-1	Advance RQM-2540-3-TP	no
105 Commander	Universal 446-LR-TC-P	yes
110 Retention	Universal RQM-2540	no
111 Restroom	Advance Mark III R-2540-1-TP	yes
113 Classroom	Universal 446-LR-TC-P	yes
114 Men's Restroom	Advance Mark III R-2540-1-TP	yes
115 Ladies' Restroom	Advance Mark III R-2540-1-TP	yes
117A S3	Advance RQM-2540-3-TP	yes
117B S3	Advance RQM-2540-3-TP	yes
118 Hall	Advance RQM-2540-3-TP	yes
118A Office	Advance RQM-2540-3-TP	yes
118B Office	Advance RQM-2540-3-TP	yes
118C Office	Advance RQM-2540-3-TP	yes
118D Storage	Advance RQM-2540-3-TP	yes
118E Office	Advance 34R-2534-TP	yes
118E Office	Universal 446-LR-TC-P	yes
118F Office	Advance RQM-2540-3-TP	yes
118G Office	Universal 446-LR-TC-P	yes
118H Office	Universal 446-LR-TC-P	yes
118H Office	Universal 446-LR-TC-P	yes
120A Office	Advance RQM-2540-3-TP	yes
120A Office	Advance RQM-2540-3-TP	yes
120B Office	Advance RQM-2540-3-TP	yes
120B Office	Advance RQM-2540-3-TP	yes
121 Offices	Universal 446-LR-TC-P	yes
121 Offices	Universal 446-LR-TC-P	yes
122 Female Restroom	Advance Mark III R-2540-1-TP	yes
123 Men's Restroom	Advance Mark III R-2540-1-TP	yes
124 Office	Advance RQM-2540-3-TP	no
125 Office, Copy Room	Universal Magnatek 446-L-SLH-TC-P	yes
128 Kitchen	Advance R-2540-1-TP	yes
130 Supply	Advance R-2540-1-TP	yes
131 Training	Advance R-2540-1-TP	yes
133 NBC Room	Advance R-2540-1-TP	yes

Room number/name	Ballast #/Manufacturer	Label Stating No PCB's?
IL - 074 USARC		
136 Cleaning Room	Advance R-140-1-TP	yes
137 Office	Advance R-2540-1-TP	yes
137A Storage	Advance R-2540-1-TP	yes
201 Administration	Advance R-2540-1-TP	yes
202 Office	Advance R-2540-1-TP	yes
203	Universal 446-LR-TC-P	yes
203A	Advance Mark III R-2540-1-TP	yes
205 XO Office	Advance R-140-1-TP	yes
207 Training Office	Advance R-140-1-TP	yes
207 Training Office	Advance R-2540-1-TP	yes
208 Office	Advance R-140-1-TP	yes
208 Office	Advance R-2540-1-TP	yes
208A	Advance Mark III R-2540-1-TP	yes
208A Office	Advance R-140-1-TP	yes
209	Advance Mark III R-2540-1-TP	yes
210	Advance Mark III R-2540-1-TP	yes
Basement Hallway	Advance R-2540-1-TP	yes
Basement Hallway	Advance III R-140-1-TP	yes
Hallway	Advance Mark III R-2540-1-TP	yes
Hallway	Advance Mark III R-2540-1-TP	yes
Hallway	Advance Standard REL-2P32-SC	yes
Hallway	Advance Mark III R-2540-1-TP	yes
Hallway	Advance Mark III R-2540-1-TP	yes
IL - 074 OMS		
	lights too high to reach	



USARC
 2710 Central Ave
 St. Petersburg, Fl. 33712

USARC IL-074
Waukegan

Floor Plan
 SCALE: NTS

APPENDIX C

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: IL-074-001; Waukegan, IL

Inspection Date: 06/15/02 Waukegan AFRC
 Report Date: 2/27/2006
 Abatement Level: 1.0
 Report No. S#01908 - 06/15/02 13:03
 Total Readings: 568 Actionable: 44
 Job Started: 06/15/02 13:03
 Job Finished: 06/17/02 17:18

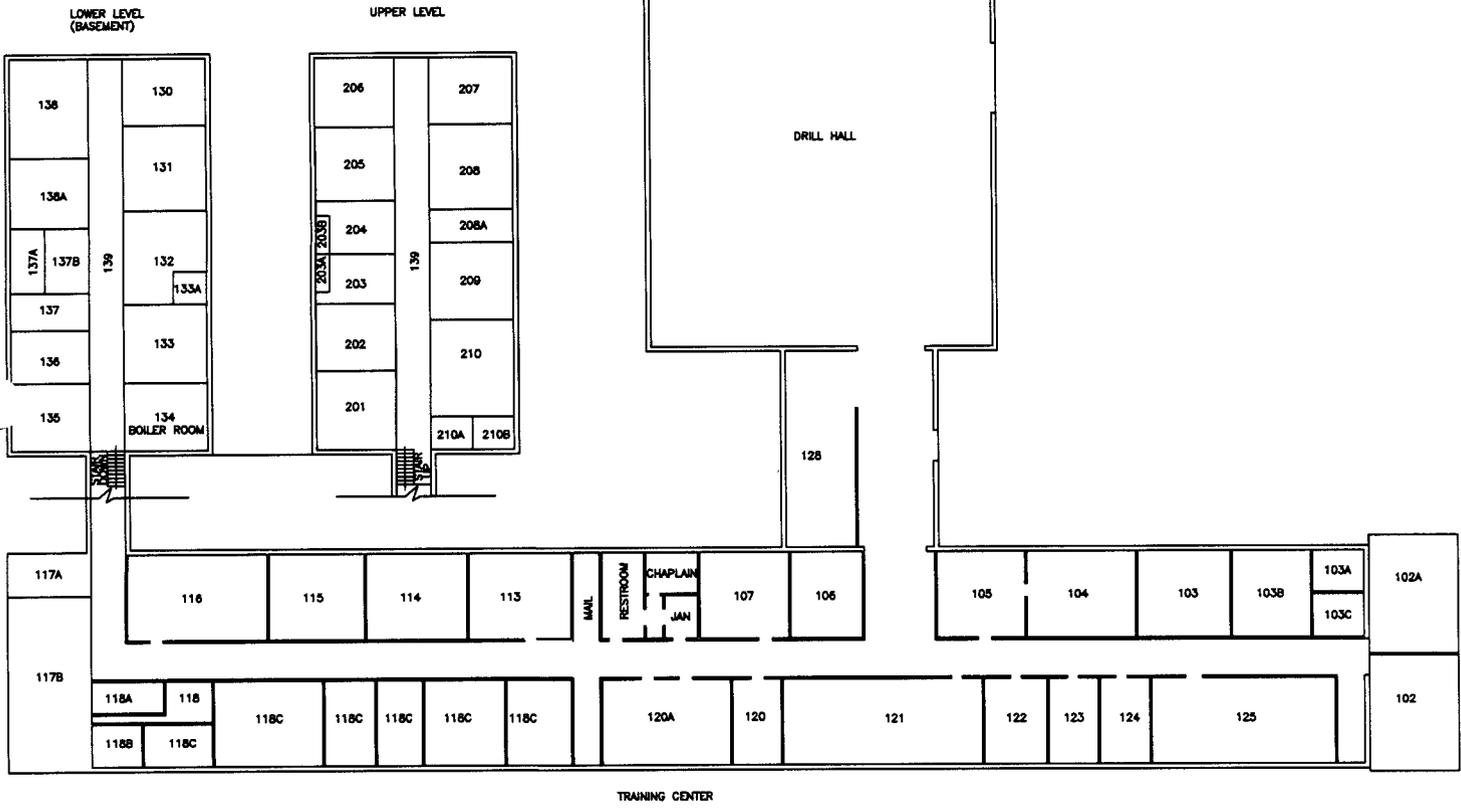
Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
Interior Room 102 Classroom									
249	A	Door	Ctr	L Ctr	I	Wood	Beige	1.0	QM
Interior Room 103 Number Only									
205	A	Door	Ctr	Rgt jamb	I	Metal	Yellow	1.0	QM
Comment: Reading 205 was taken from metal door jamb, dark butterscotch in color.									
Interior Room 106 Copy Room									
098	A	Door	Ctr	Rgt jamb	I	Metal	Yellow	1.0	QM
Comment: Reading 98 was taken from metal door jamb, dark butterscotch in color.									
Interior Room 107 Mech. Room									
276	A	Stairs	Ctr	Baseboard	I	Metal	Grey	5.3	QM
277	A	Stairs	Ctr	Treads	I	Metal	Grey	3.4	QM
282	A	Stairs	Ctr	Risers	I	Metal	Grey	7.0	QM
280	A	Stairs	Ctr	Newel post	I	Metal	Grey	5.3	QM
278	A	Stairs	Ctr	Stringer	I	Metal	Grey	2.7	QM
281	A	Stairs	Ctr	Balusters	I	Metal	Grey	5.1	QM
279	A	Stairs	Ctr	Railing cap	I	Metal	Grey	2.5	QM
Interior Room 110 Retention									
304	A	Door	Ctr	Rgt jamb	I	Metal	Yellow	1.0	QM
Interior Room 111 Bathroom									
293	A	Door	Ctr	Rgt jamb	I	Metal	Yellow	1.0	QM
Comment: Reading 293 was taken from metal door jamb, butterscotch in color.									
Interior Room 113 Office									
065	A	Door	Ctr	Rgt jamb	I	Metal	Yellow	3.4	QM
066	A	Door	Ctr	Lft casing	I	Metal	Yellow	2.9	QM
Comment: Readings 65 and 66 were taken from metal door jamb, dark butterscotch in color.									
Interior Room 121 Office									
092	A	Door	Ctr	Lft jamb	I	Metal	Yellow	1.0	QM
Comment: Reading 92 was taken from metal door jamb, dark butterscotch in color.									
Interior Room 122 Womens Rm									
137	A	Door	Ctr	Rgt casing	I	Metal	Yellow	1.0	QM
Comment: Reading 137 was taken from metal door jamb, butterscotch in color.									
Interior Room 123 Mens Room									
115	B	Wall	L Ctr		I	Ceramic	Blue	5.5	QM
116	C	Wall	L Ctr		I	Ceramic	Blue	5.2	QM
117	D	Wall	L Ctr		I	Ceramic	Blue	4.5	QM
Interior Room 124 Womens Rm									

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: IL-074-001; Waukegan, IL

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
109	A	Door	Ctr	Rgt casing	I	Metal	Yellow	2.1	QM
110	A	Door	Ctr	Lft jamb	I	Metal	Yellow	1.6	QM
102	B	Wall	L Ctr		I	Ceramic	N/A	2.7	QM
103	C	Wall	L Ctr		I	Ceramic	N/A	3.2	QM
104	D	Wall	L Ctr		I	Ceramic	N/A	2.7	QM
Comment: Readings 109 and 110 were taken from metal door jamb, butterscotch in color.									
Interior Room 128 Kitchen									
169	A	Door	Ctr	Rgt jamb	I	Metal	Yellow	1.0	QM
168	A	Door	Ctr	Lft jamb	I	Metal	Yellow	1.0	QM
Comment: Readings 168 and 169 were taken from metal door frame, dark butterscotch in color.									
Interior Room 139 Bsmnt Hall									
533	B	Wall	L Ctr		I	Glazed Blk Grey		1.8	QM
535	D	Wall	L Ctr		I	Glazed Blk Grey		2.1	QM
Interior Room 204 Bathroom									
388	A	Wall	L Ctr		I	Glazed Blk Green		3.0	QM
389	B	Wall	L Ctr		I	Glazed Blk Green		3.4	QM
Comment: Readings 388 and 389 were taken from ceramic glazed mortar blocks.									
Interior Room 211 Hallway									
540	B	Wall	L Ctr		I	Glazed Blk Grey		1.9	QM
542	D	Wall	L Ctr		I	Glazed Blk Grey		2.1	QM
Comment: Readings 540 and 542 were taken from grey ceramic glazed mortar blocks.									
Interior Room 908 Closet									
178	A	Door	Ctr	Rgt casing	I	Metal	Yellow	1.0	QM
Comment: Reading 178 was taken from metal door casing, dark butterscotch in color.									
Interior Room 912 102 A									
240	A	Door	Ctr	U Ctr	I	Wood	Natural	3.1	QM
Interior Room 923 137 B Bath									
507	A	Wall	L Ctr		I	Glazed Blk Green		2.8	QM
508	B	Wall	L Ctr		I	Glazed Blk Green		2.6	QM
Interior Room 924 138 A									
522	A	Wall	L Ctr		I	Glazed Blk Green		3.6	QM
523	B	Wall	L Ctr		I	Glazed Blk Green		2.9	QM
524	C	Wall	L Ctr		I	Glazed Blk Green		3.3	QM
525	D	Wall	L Ctr		I	Glazed Blk Green		2.9	QM
Interior Room 925 138 B									
527	A	Wall	L Ctr		I	Glazed Blk Green		3.6	QM
528	B	Wall	L Ctr		I	Glazed Blk Green		3.5	QM
529	C	Wall	L Ctr		I	Glazed Blk Green		3.1	QM
530	D	Wall	L Ctr		I	Glazed Blk Green		3.3	QM

Calibration Readings

----- End of Readings -----



LI
 2710 Central Ave
 St. Petersburg, Fl. 33712

USARC IL-074
Waukegan

Floor Plan
 SCALE: NTS

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: IL-074-001; Waukegan, IL

Inspection Date: 06/15/02 Waukegan AFRC
 Report Date: 2/27/2006
 Abatement Level: 1.0
 Report No. S#01908 - 06/15/02 13:03
 Total Readings: 568
 Job Started: 06/15/02 13:03
 Job Finished: 06/17/02 17:18

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
Exterior Room 001 Number Only									
560	A	Door	Ctr	Rgt jamb	I	N/A	N/A	-0.1	QM
561	A	Door	Ctr	Lft jamb	I	N/A	N/A	0.0	QM
562	A	Door	Ctr	U Ctr	I	N/A	N/A	0.0	QM
563	B	Door	Ctr	Rgt jamb	I	N/A	N/A	-0.2	QM
564	B	Door	Ctr	Lft casing	I	N/A	N/A	-0.3	QM
565	B	Door	Ctr	U Ctr	I	N/A	N/A	-0.4	QM
566	C	Door	Ctr	Rgt jamb	I	N/A	N/A	-0.1	QM
567	C	Door	Ctr	Lft casing	I	N/A	N/A	-0.1	QM
568	C	Door	Ctr	U Ctr	I	N/A	N/A	-0.2	QM
Interior Room 102 Classroom									
241	A	Wall	L Ctr		I	N/A	N/A	-0.2	QM
248	A	Door	Ctr	Rgt casing	I	N/A	N/A	0.4	QM
247	A	Door	Ctr	Lft jamb	I	N/A	N/A	0.4	QM
249	A	Door	Ctr	L Ctr	I	Wood	Beige	1.0	QM
242	B	Wall	L Ctr		I	N/A	N/A	-0.2	QM
243	C	Wall	L Ctr		I	N/A	N/A	-0.1	QM
246	C	Window	Ctr	Rgt jamb	I	N/A	N/A	-0.5	QM
245	C	Window	Ctr	Well	I	N/A	N/A	0.0	QM
244	D	Wall	L Ctr		I	N/A	N/A	0.0	QM
Interior Room 103 Number Only									
198	A	Wall	L Ctr		I	N/A	N/A	-0.1	QM
205	A	Door	Ctr	Rgt jamb	I	Metal	Yellow	1.0	QM
204	A	Door	Ctr	Lft casing	I	N/A	N/A	0.4	QM
206	A	Door	Ctr	L Ctr	I	N/A	N/A	-0.1	QM
199	B	Wall	L Ctr		I	N/A	N/A	-0.2	QM
200	C	Wall	L Ctr		I	N/A	N/A	0.0	QM
203	C	Window	Ctr	Rgt jamb	I	N/A	N/A	-0.6	QM
202	C	Window	Ctr	Well	I	N/A	N/A	0.3	QM
201	D	Wall	L Ctr		I	N/A	N/A	-0.1	QM
Comment: Reading 205 was taken from metal door jamb, dark butterscotch in color.									
Interior Room 104 Number Only									
189	A	Wall	L Ctr		I	N/A	N/A	0.0	QM
196	A	Door	Ctr	Rgt casing	I	N/A	N/A	0.4	QM
195	A	Door	Ctr	Lft jamb	I	N/A	N/A	0.4	QM
197	A	Door	Ctr	U Ctr	I	N/A	N/A	-0.1	QM
190	B	Wall	L Ctr		I	N/A	N/A	-0.3	QM
191	C	Wall	L Ctr		I	N/A	N/A	-0.1	QM
194	C	Window	Ctr	Rgt jamb	I	N/A	N/A	-0.1	QM
193	C	Window	Ctr	Well	I	N/A	N/A	0.3	QM
192	D	Wall	L Ctr		I	N/A	N/A	-0.1	QM
Interior Room 105 Number Only									
180	A	Wall	L Ctr		I	N/A	N/A	-0.1	QM
187	A	Door	Ctr	Rgt casing	I	N/A	N/A	0.1	QM
186	A	Door	Ctr	Lft jamb	I	N/A	N/A	0.1	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: IL-074-001; Waukegan, IL

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
188	A	Door	Ctr	U Ctr	I	N/A	N/A	-0.2	QM
181	B	Wall	L Ctr		I	N/A	N/A	0.0	QM
182	C	Wall	L Ctr		I	N/A	N/A	-0.1	QM
185	C	Window	Ctr	Rgt casing	I	N/A	N/A	0.1	QM
184	C	Window	Ctr	Apron	I	N/A	N/A	0.3	QM
183	D	Wall	L Ctr		I	N/A	N/A	-0.1	QM
Interior Room 106 Copy Room									
098	A	Door	Ctr	Rgt jamb	I	Metal	Yellow	1.0	QM
099	A	Door	Ctr	Lft casing	I	Metal	Yellow	0.2	QM
100	A	Door	Ctr	U Ctr	I	N/A	N/A	0.0	QM
095	B	Wall	L Ctr		I	N/A	N/A	0.3	QM
096	C	Wall	L Ctr		I	N/A	N/A	0.0	QM
097	D	Wall	L Ctr		I	N/A	N/A	0.2	QM
Comment: Reading 98 was taken from metal door jamb, dark butterscotch in color.									
Interior Room 107 Mech. Room									
268	A	Wall	L Ctr		I	N/A	N/A	-0.1	QM
274	A	Door	Ctr	Rgt jamb	I	N/A	N/A	-0.2	QM
272	A	Door	Ctr	Lft casing	I	N/A	N/A	0.3	QM
273	A	Door	Ctr	U Ctr	I	N/A	N/A	-0.3	QM
275	A	Stairs	Ctr	Wall	I	N/A	N/A	-0.1	QM
276	A	Stairs	Ctr	Baseboard	I	Metal	Grey	5.3	QM
277	A	Stairs	Ctr	Treads	I	Metal	Grey	3.4	QM
282	A	Stairs	Ctr	Risers	I	Metal	Grey	7.0	QM
280	A	Stairs	Ctr	Newel post	I	Metal	Grey	5.3	QM
278	A	Stairs	Ctr	Stringer	I	Metal	Grey	2.7	QM
281	A	Stairs	Ctr	Balusters	I	Metal	Grey	5.1	QM
279	A	Stairs	Ctr	Railing cap	I	Metal	Grey	2.5	QM
269	B	Wall	L Ctr		I	N/A	N/A	-0.1	QM
270	C	Wall	L Ctr		I	N/A	N/A	-0.2	QM
271	D	Wall	L Ctr		I	N/A	N/A	0.0	QM
Interior Room 110 Retention									
296	A	Wall	L Ctr		I	N/A	N/A	-0.2	QM
301	A	Ceiling			I	N/A	N/A	-0.2	QM
304	A	Door	Ctr	Rgt jamb	I	Metal	Yellow	1.0	QM
305	A	Door	Ctr	Lft jamb	I	Metal	Yellow	0.2	QM
306	A	Door	Ctr	L Ctr	I	N/A	N/A	-0.3	QM
297	B	Wall	L Ctr		I	N/A	N/A	-0.1	QM
298	C	Wall	L Ctr		I	N/A	N/A	-0.1	QM
300	C	Ceiling			I	N/A	N/A	-0.1	QM
303	C	Window	Ctr	Rgt jamb	I	N/A	N/A	-0.3	QM
302	C	Window	Ctr	Well	I	N/A	N/A	0.1	QM
299	D	Wall	L Ctr		I	N/A	N/A	-0.2	QM
Interior Room 111 Bathroom									
283	A	Wall	L Ctr		I	N/A	N/A	-0.1	QM
288	A	Floor			I	N/A	N/A	-0.2	QM
290	A	Ceiling			I	N/A	N/A	-0.3	QM
293	A	Door	Ctr	Rgt jamb	I	Metal	Yellow	1.0	QM
294	A	Door	Ctr	Lft jamb	I	Metal	Yellow	0.0	QM
295	A	Door	Ctr	U Ctr	I	N/A	N/A	0.0	QM
284	B	Wall	L Ctr		I	N/A	N/A	-0.1	QM
285	C	Wall	L Ctr		I	N/A	N/A	-0.3	QM
287	C	Floor			I	N/A	N/A	-0.5	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: IL-074-001; Waukegan, IL

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
289	C	Ceiling			I	N/A	N/A	-0.3	QM
292	C	Window	Ctr	Rgt jamb	I	N/A	N/A	-0.3	QM
291	C	Window	Ctr	Well	I	N/A	N/A	-0.3	QM
286	D	Wall	L Ctr		I	N/A	N/A	-0.2	QM
Comment: Reading 293 was taken from metal door jamb, butterscotch in color.									
Interior Room 113 Office									
059	A	Wall	L Ctr		I	N/A	N/A	-0.1	QM
065	A	Door	Ctr	Rgt jamb	I	Metal	Yellow	3.4	QM
066	A	Door	Ctr	Lft casing	I	Metal	Yellow	2.9	QM
067	A	Door	Ctr	U Ctr	I	N/A	N/A	-0.1	QM
060	B	Wall	L Ctr		I	N/A	N/A	-0.2	QM
061	C	Wall	L Ctr		I	N/A	N/A	-0.3	QM
064	C	Window	Ctr	Well	I	N/A	N/A	-0.1	QM
063	C	Window	Ctr	Lft casing	I	N/A	N/A	-0.1	QM
062	D	Wall	L Ctr		I	N/A	N/A	-0.1	QM
Comment: Readings 65 and 66 were taken from metal door jamb, dark butterscotch in color.									
Interior Room 118 Hallway									
307	A	Wall	L Ctr		I	N/A	N/A	-0.3	QM
312	A	Door	Ctr	Rgt jamb	I	N/A	N/A	0.1	QM
311	A	Door	Ctr	Lft jamb	I	N/A	N/A	0.0	QM
313	A	Door	Ctr	U Ctr	I	N/A	N/A	-0.2	QM
308	B	Wall	L Ctr		I	N/A	N/A	-0.3	QM
309	C	Wall	L Ctr		I	N/A	N/A	-0.3	QM
310	D	Wall	L Ctr		I	N/A	N/A	0.2	QM
Interior Room 120 Office									
077	A	Wall	L Ctr		I	N/A	N/A	-0.1	QM
084	A	Door	Ctr	Rgt casing	I	N/A	N/A	0.4	QM
083	A	Door	Ctr	Lft jamb	I	N/A	N/A	0.2	QM
078	B	Wall	L Ctr		I	N/A	N/A	0.0	QM
085	B	Door	Ctr	U Ctr	P	N/A	N/A	-0.1	QM
079	C	Wall	L Ctr		I	N/A	N/A	-0.3	QM
082	C	Window	Ctr	Rgt casing	I	N/A	N/A	0.2	QM
081	C	Window	Ctr	Well	I	N/A	N/A	0.0	QM
080	D	Wall	L Ctr		I	N/A	N/A	-0.1	QM
Interior Room 121 Office									
086	A	Wall	L Ctr		P	N/A	N/A	0.1	QM
093	A	Door	Ctr	Rgt jamb	I	Metal	Yellow	0.4	QM
092	A	Door	Ctr	Lft jamb	I	Metal	Yellow	1.0	QM
094	A	Door	Ctr	L Ctr	I	N/A	N/A	0.0	QM
087	B	Wall	L Ctr		P	N/A	N/A	-0.2	QM
088	C	Wall	L Ctr		P	N/A	N/A	-0.1	QM
091	C	Window	Ctr	Well	P	N/A	N/A	0.0	QM
090	C	Window	Ctr	Lft casing	P	N/A	N/A	0.0	QM
089	D	Wall	L Ctr		P	N/A	N/A	0.1	QM
Comment: Reading 92 was taken from metal door jamb, dark butterscotch in color.									
Interior Room 122 Womens Rm									
127	A	Wall	L Ctr		I	N/A	N/A	-0.3	QM
134	A	Floor			I	N/A	N/A	-0.5	QM
132	A	Ceiling			I	N/A	N/A	-0.1	QM
137	A	Door	Ctr	Rgt casing	I	Metal	Yellow	1.0	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: IL-074-001; Waukegan, IL

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
138	A	Door	Ctr	Lft jamb	I	N/A	N/A	0.1	QM
139	A	Door	Ctr	U Ctr	I	N/A	N/A	0.0	QM
128	B	Wall	L Ctr		I	N/A	N/A	-0.1	QM
129	C	Wall	L Ctr		I	N/A	N/A	-0.2	QM
133	C	Floor			I	N/A	N/A	-0.7	QM
131	C	Ceiling			I	N/A	N/A	-0.3	QM
136	C	Window	Ctr	Rgt casing	I	N/A	N/A	-0.2	QM
135	C	Window	Ctr	Well	I	N/A	N/A	-0.1	QM
130	D	Wall	L Ctr		I	N/A	N/A	-0.2	QM

Comment: Reading 137 was taken from metal door jamb, butterscotch in color.

Interior Room 123 Mens Room

114	A	Wall	L Ctr		I	N/A	N/A	-0.4	QM
140	A	Wall	L Ctr		I	N/A	N/A	-0.3	QM
119	A	Floor			I	N/A	N/A	-0.4	QM
147	A	Floor			I	N/A	N/A	-0.6	QM
121	A	Ceiling			I	N/A	N/A	-0.2	QM
145	A	Ceiling			I	N/A	N/A	-0.4	QM
124	A	Door	Ctr	Rgt jamb	I	N/A	N/A	-0.1	QM
150	A	Door	Ctr	Rgt jamb	I	N/A	N/A	0.0	QM
151	A	Door	Ctr	Lft casing	I	N/A	N/A	0.3	QM
125	A	Door	Ctr	Lft jamb	I	N/A	N/A	0.1	QM
126	A	Door	Ctr	U Ctr	I	N/A	N/A	0.0	QM
152	A	Door	Ctr	U Ctr	I	N/A	N/A	-0.3	QM
115	B	Wall	L Ctr		I	Ceramic	Blue	5.5	QM
141	B	Wall	L Ctr		I	N/A	N/A	-0.2	QM
116	C	Wall	L Ctr		I	Ceramic	Blue	5.2	QM
142	C	Wall	L Ctr		I	N/A	N/A	-0.2	QM
118	C	Floor			I	N/A	N/A	-0.3	QM
146	C	Floor			I	N/A	N/A	-0.5	QM
120	C	Ceiling			I	N/A	N/A	-0.4	QM
144	C	Ceiling			I	N/A	N/A	-0.2	QM
149	C	Window	Ctr	Rgt casing	I	N/A	N/A	-0.1	QM
122	C	Window	Ctr	Well	I	N/A	N/A	0.2	QM
148	C	Window	Ctr	Well	I	N/A	N/A	0.2	QM
123	C	Window	Ctr	Lft jamb	I	N/A	N/A	0.3	QM
117	D	Wall	L Ctr		I	Ceramic	Blue	4.5	QM
143	D	Wall	L Ctr		I	N/A	N/A	-0.2	QM

Interior Room 124 Womens Rm

101	A	Wall	L Ctr		I	N/A	N/A	-0.3	QM
106	A	Floor			I	Ceramic	N/A	-0.1	QM
108	A	Ceiling			I	N/A	N/A	-0.3	QM
109	A	Door	Ctr	Rgt casing	I	Metal	Yellow	2.1	QM
110	A	Door	Ctr	Lft jamb	I	Metal	Yellow	1.6	QM
111	A	Door	Ctr	U Ctr	I	N/A	N/A	-0.3	QM
102	B	Wall	L Ctr		I	Ceramic	N/A	2.7	QM
103	C	Wall	L Ctr		I	Ceramic	N/A	3.2	QM
105	C	Floor			I	Ceramic	N/A	-0.2	QM
107	C	Ceiling			I	N/A	N/A	-0.2	QM
112	C	Window	Ctr	Rgt casing	I	N/A	N/A	0.0	QM
113	C	Window	Ctr	Well	I	N/A	N/A	-0.1	QM
104	D	Wall	L Ctr		I	Ceramic	N/A	2.7	QM

Comment: Readings 109 and 110 were taken from metal door jamb, butterscotch in color.

Interior Room 125 Conf. Room

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: IL-074-001; Waukegan, IL

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
250	A	Wall	L Ctr		I	N/A	N/A	0.1	QM
256	A	Door	Ctr	Rgt jamb	I	N/A	N/A	0.0	QM
257	A	Door	Ctr	Lft jamb	I	N/A	N/A	0.2	QM
258	A	Door	Ctr	L Ctr	I	N/A	N/A	-0.1	QM
251	B	Wall	L Ctr		I	N/A	N/A	-0.1	QM
252	C	Wall	L Ctr		I	N/A	N/A	0.0	QM
255	C	Window	Ctr	Rgt jamb	I	N/A	N/A	-0.8	QM
254	C	Window	Ctr	Well	I	N/A	N/A	-0.1	QM
253	D	Wall	L Ctr		I	N/A	N/A	-0.4	QM
Interior Room 128 Kitchen									
160	A	Wall	L Ctr		I	N/A	N/A	0.1	QM
165	A	Ceiling			I	N/A	N/A	0.2	QM
169	A	Door	Ctr	Rgt jamb	I	Metal	Yellow	1.0	QM
168	A	Door	Ctr	Lft jamb	I	Metal	Yellow	1.0	QM
170	A	Door	Ctr	L Ctr	I	N/A	N/A	-0.1	QM
161	B	Wall	L Ctr		I	N/A	N/A	0.0	QM
162	C	Wall	L Ctr		I	N/A	N/A	-0.1	QM
164	C	Ceiling			I	N/A	N/A	0.0	QM
167	C	Window	Ctr	Rgt jamb	I	N/A	N/A	-0.7	QM
166	C	Window	Ctr	Well	I	N/A	N/A	-0.4	QM
163	D	Wall	L Ctr		I	N/A	N/A	0.0	QM
Comment: Readings 168 and 169 were taken from metal door frame, dark butterscotch in color.									
Interior Room 129 Drill Hall									
153	A	Wall	L Ctr		I	N/A	N/A	0.3	QM
158	A	Door	Ctr	Rgt jamb	I	N/A	N/A	0.1	QM
157	A	Door	Ctr	Lft jamb	I	N/A	N/A	0.1	QM
159	A	Door	Ctr	U Ctr	I	N/A	N/A	-0.1	QM
154	B	Wall	L Ctr		I	N/A	N/A	-0.1	QM
155	C	Wall	L Ctr		I	N/A	N/A	0.0	QM
156	D	Wall	L Ctr		I	N/A	N/A	0.1	QM
Interior Room 130 Supply Room									
454	A	Wall	L Ctr		I	N/A	N/A	0.1	QM
459	A	Door	Ctr	Rgt jamb	I	N/A	N/A	-0.1	QM
460	A	Door	Ctr	Lft jamb	I	N/A	N/A	-0.1	QM
461	A	Door	Ctr	L Ctr	I	N/A	N/A	-0.2	QM
455	B	Wall	L Ctr		I	N/A	N/A	-0.2	QM
456	C	Wall	L Ctr		I	N/A	N/A	-0.3	QM
457	D	Wall	L Ctr		I	N/A	N/A	0.2	QM
458	D	Window	Ctr	Rgt casing	I	N/A	N/A	0.0	QM
Interior Room 131 Number Only									
462	A	Wall	L Ctr		I	N/A	N/A	0.1	QM
467	A	Door	Ctr	Rgt jamb	I	N/A	N/A	0.1	QM
466	A	Door	Ctr	Lft jamb	I	N/A	N/A	0.0	QM
468	A	Door	Ctr	L Ctr	I	N/A	N/A	0.0	QM
463	B	Wall	L Ctr		I	N/A	N/A	0.3	QM
464	C	Wall	L Ctr		I	N/A	N/A	0.0	QM
465	D	Wall	L Ctr		I	N/A	N/A	0.2	QM
Interior Room 133 Number Only									
469	A	Wall	L Ctr		I	N/A	N/A	0.2	QM
474	A	Door	Ctr	Rgt jamb	I	N/A	N/A	-0.1	QM
475	A	Door	Ctr	Lft jamb	I	N/A	N/A	-0.1	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: IL-074-001; Waukegan, IL

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
476	A	Door	Ctr	L Ctr	I	N/A	N/A	-0.1	QM
470	B	Wall	L Ctr		I	N/A	N/A	-0.2	QM
471	C	Wall	L Ctr		I	N/A	N/A	-0.1	QM
472	D	Wall	L Ctr		I	N/A	N/A	-0.1	QM
473	D	Window	Ctr	Rgt casing	I	N/A	N/A	0.2	QM
Interior Room 136 Number Only									
485	A	Wall	L Ctr		I	N/A	N/A	-0.2	QM
490	A	Door	Ctr	Rgt jamb	I	N/A	N/A	0.1	QM
489	A	Door	Ctr	Lft jamb	I	N/A	N/A	-0.1	QM
491	A	Door	Ctr	L Ctr	I	N/A	N/A	0.0	QM
486	B	Wall	L Ctr		I	N/A	N/A	0.0	QM
487	C	Wall	L Ctr		I	N/A	N/A	-0.1	QM
488	D	Wall	L Ctr		I	N/A	N/A	-0.3	QM
492	D	Window	Ctr	Rgt casing	I	N/A	N/A	-0.1	QM
Interior Room 137 Number Only									
493	A	Wall	L Ctr		I	N/A	N/A	-0.1	QM
498	A	Door	Ctr	Rgt jamb	I	N/A	N/A	-0.1	QM
497	A	Door	Ctr	Lft jamb	I	N/A	N/A	0.1	QM
499	A	Door	Ctr	L Ctr	I	N/A	N/A	0.0	QM
494	B	Wall	L Ctr		I	N/A	N/A	-0.1	QM
495	C	Wall	L Ctr		I	N/A	N/A	-0.1	QM
496	D	Wall	L Ctr		I	N/A	N/A	-0.3	QM
Interior Room 138 Number Only									
514	A	Wall	L Ctr		I	N/A	N/A	-0.3	QM
520	A	Door	Ctr	Rgt casing	I	N/A	N/A	0.0	QM
519	A	Door	Ctr	Lft jamb	I	N/A	N/A	-0.1	QM
521	A	Door	Ctr	U Ctr	I	N/A	N/A	0.0	QM
515	B	Wall	L Ctr		I	N/A	N/A	-0.3	QM
516	C	Wall	L Ctr		I	N/A	N/A	-0.1	QM
517	D	Wall	L Ctr		I	N/A	N/A	0.0	QM
518	D	Window	Ctr	Rgt casing	I	N/A	N/A	0.2	QM
Interior Room 139 Bsmnt Hall									
532	A	Wall	L Ctr		I	N/A	N/A	-0.3	QM
537	A	Door	Ctr	Rgt casing	I	N/A	N/A	-0.2	QM
536	A	Door	Ctr	Lft jamb	I	N/A	N/A	-0.1	QM
538	A	Door	Ctr	U Ctr	I	N/A	N/A	-0.4	QM
533	B	Wall	L Ctr		I	Glazed Blk Grey		1.8	QM
534	C	Wall	L Ctr		I	Concrete White		-0.1	QM
535	D	Wall	L Ctr		I	Glazed Blk Grey		2.1	QM
Interior Room 201 Admin. Ofc.									
346	A	Wall	L Ctr		I	N/A	N/A	-0.3	QM
351	A	Door	Ctr	Rgt casing	I	N/A	N/A	-0.1	QM
352	A	Door	Ctr	Lft jamb	I	N/A	N/A	-0.1	QM
353	A	Door	Ctr	U Ctr	I	N/A	N/A	0.0	QM
347	B	Wall	L Ctr		I	N/A	N/A	0.2	QM
348	C	Wall	L Ctr		I	N/A	N/A	-0.3	QM
350	C	Window	Ctr	Lft jamb	I	N/A	N/A	-0.1	QM
349	D	Wall	L Ctr		I	N/A	N/A	-0.1	QM
Interior Room 202 Office									
354	A	Wall	L Ctr		I	N/A	N/A	-0.1	QM
359	A	Door	Ctr	Rgt jamb	I	N/A	N/A	-0.1	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: IL-074-001; Waukegan, IL

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
358	A	Door	Ctr	Lft jamb	I	N/A	N/A	-0.1	QM
360	A	Door	Ctr	U Ctr	I	N/A	N/A	0.1	QM
355	B	Wall	L Ctr		I	N/A	N/A	-0.1	QM
356	C	Wall	L Ctr		I	N/A	N/A	0.0	QM
361	C	Window	Ctr	Rgt jamb	I	N/A	N/A	-0.1	QM
357	D	Wall	L Ctr		I	N/A	N/A	-0.2	QM
Interior Room 203 Conf. Room									
370	A	Wall	L Ctr		I	N/A	N/A	0.3	QM
376	A	Door	Ctr	Rgt jamb	I	N/A	N/A	-0.1	QM
375	A	Door	Ctr	Lft casing	I	N/A	N/A	0.0	QM
377	A	Door	Ctr	U Ctr	I	N/A	N/A	0.0	QM
371	B	Wall	L Ctr		I	N/A	N/A	0.2	QM
372	C	Wall	L Ctr		I	N/A	N/A	0.4	QM
374	C	Window	Ctr	Lft casing	I	N/A	N/A	-0.4	QM
373	D	Wall	L Ctr		I	N/A	N/A	0.1	QM
Interior Room 204 Bathroom									
388	A	Wall	L Ctr		I	Glazed Blk	Green	3.0	QM
395	A	Floor			I	N/A	N/A	-0.1	QM
393	A	Ceiling			I	N/A	N/A	-0.3	QM
397	A	Door	Ctr	Rgt jamb	I	N/A	N/A	-0.1	QM
396	A	Door	Ctr	Lft jamb	I	N/A	N/A	-0.2	QM
398	A	Door	Ctr	L Ctr	I	N/A	N/A	-0.1	QM
389	B	Wall	L Ctr		I	Glazed Blk	Green	3.4	QM
390	C	Wall	L Ctr		I	Ceramic	N/A	-0.4	QM
394	C	Floor			I	N/A	N/A	-0.2	QM
392	C	Ceiling			I	N/A	N/A	-0.1	QM
391	D	Wall	L Ctr		I	Ceramic	N/A	-0.2	QM
Comment: Readings 388 and 389 were taken from ceramic glazed mortar blocks.									
Interior Room 205 Number Only									
362	A	Wall	L Ctr		I	N/A	N/A	-0.1	QM
446	A	Wall	L Ctr		I	N/A	N/A	0.2	QM
367	A	Door	Ctr	Rgt jamb	I	N/A	N/A	0.1	QM
451	A	Door	Ctr	Rgt jamb	I	N/A	N/A	-0.1	QM
368	A	Door	Ctr	Lft jamb	I	N/A	N/A	-0.1	QM
452	A	Door	Ctr	Lft jamb	I	N/A	N/A	-0.1	QM
453	A	Door	Ctr	L Ctr	I	N/A	N/A	-0.1	QM
369	A	Door	Ctr	U Ctr	I	N/A	N/A	-0.1	QM
363	B	Wall	L Ctr		I	N/A	N/A	0.0	QM
447	B	Wall	L Ctr		I	N/A	N/A	0.1	QM
364	C	Wall	L Ctr		I	N/A	N/A	0.0	QM
448	C	Wall	L Ctr		I	N/A	N/A	0.2	QM
366	C	Window	Ctr	Rgt jamb	I	N/A	N/A	-0.1	QM
365	D	Wall	L Ctr		I	N/A	N/A	0.1	QM
449	D	Wall	L Ctr		I	N/A	N/A	-0.1	QM
450	D	Window	Ctr	Rgt casing	I	N/A	N/A	-0.2	QM
Interior Room 207 Number Only									
438	A	Wall	L Ctr		I	N/A	N/A	-0.1	QM
443	A	Door	Ctr	Rgt casing	I	N/A	N/A	0.2	QM
444	A	Door	Ctr	Lft jamb	I	N/A	N/A	-0.2	QM
445	A	Door	Ctr	U Ctr	I	N/A	N/A	0.0	QM
439	B	Wall	L Ctr		I	N/A	N/A	-0.1	QM
440	C	Wall	L Ctr		I	N/A	N/A	-0.1	QM
441	D	Wall	L Ctr		I	N/A	N/A	-0.2	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: IL-074-001; Waukegan, IL

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
442	D	Window	Ctr	Rgt casing	I	N/A	N/A	-0.1	QM
Interior Room 208 IG Office									
430	A	Wall	L Ctr		I	N/A	N/A	0.0	QM
435	A	Door	Ctr	Rgt jamb	I	N/A	N/A	-0.1	QM
436	A	Door	Ctr	Lft casing	I	N/A	N/A	0.0	QM
437	A	Door	Ctr	U Ctr	I	N/A	N/A	0.1	QM
431	B	Wall	L Ctr		I	N/A	N/A	0.0	QM
432	C	Wall	L Ctr		I	N/A	N/A	0.0	QM
433	D	Wall	L Ctr		I	N/A	N/A	-0.2	QM
434	D	Window	Ctr	Rgt casing	I	N/A	N/A	0.3	QM
Interior Room 210 Office									
399	A	Wall	L Ctr		I	N/A	N/A	0.4	QM
404	A	Door	Ctr	Rgt jamb	I	N/A	N/A	-0.1	QM
405	A	Door	Ctr	Lft jamb	I	N/A	N/A	-0.2	QM
406	A	Door	Ctr	U Ctr	I	N/A	N/A	0.0	QM
400	B	Wall	L Ctr		I	N/A	N/A	0.0	QM
401	C	Wall	L Ctr		I	N/A	N/A	0.0	QM
403	C	Window	Ctr	Rgt casing	I	N/A	N/A	0.2	QM
402	D	Wall	L Ctr		I	N/A	N/A	0.0	QM
Interior Room 211 Hallway									
539	A	Wall	L Ctr		I	N/A	N/A	-0.3	QM
544	A	Door	Ctr	Rgt casing	I	N/A	N/A	-0.1	QM
543	A	Door	Ctr	Lft jamb	I	N/A	N/A	0.0	QM
545	A	Door	Ctr	U Ctr	I	N/A	N/A	0.0	QM
540	B	Wall	L Ctr		I	Glazed Blk Grey		1.9	QM
541	C	Wall	L Ctr		I	Concrete White		-0.1	QM
542	D	Wall	L Ctr		I	Glazed Blk Grey		2.1	QM
Comment: Readings 540 and 542 were taken from grey ceramic glazed mortar blocks.									
Interior Room 801 Number Only									
259	A	Wall	L Ctr		I	N/A	N/A	-0.2	QM
265	A	Door	Ctr	Rgt jamb	I	N/A	N/A	0.1	QM
266	A	Door	Ctr	Lft casing	I	N/A	N/A	0.1	QM
267	A	Door	Ctr	U Ctr	I	N/A	N/A	0.0	QM
260	B	Wall	L Ctr		I	N/A	N/A	0.1	QM
261	C	Wall	L Ctr		I	N/A	N/A	-0.1	QM
264	C	Window	Ctr	Rgt jamb	I	N/A	N/A	0.0	QM
263	C	Window	Ctr	Well	I	N/A	N/A	-0.3	QM
262	D	Wall	L Ctr		I	N/A	N/A	-0.2	QM
Interior Room 901 118 H									
005	A	Wall	L Ctr		I	N/A	N/A	-0.1	QM
011	A	Door	Ctr	Rgt casing	I	N/A	N/A	-0.2	QM
010	A	Door	Ctr	Lft jamb	I	N/A	N/A	0.2	QM
012	A	Door	Ctr	U Ctr	I	N/A	N/A	0.0	QM
006	B	Wall	L Ctr		I	N/A	N/A	0.0	QM
007	C	Wall	L Ctr		I	N/A	N/A	0.0	QM
009	C	Window	Ctr	Well	I	N/A	N/A	0.1	QM
013	C	Window	Ctr	Lft casing	I	N/A	N/A	-0.5	QM
008	D	Wall	L Ctr		I	N/A	N/A	-0.1	QM
Interior Room 902 118 G									
014	A	Wall	L Ctr		I	N/A	N/A	-0.1	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: IL-074-001; Waukegan, IL

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
021	A	Door	Ctr	Rgt jamb	I	N/A	N/A	-0.2	QM
020	A	Door	Ctr	Lft jamb	I	N/A	N/A	0.4	QM
022	A	Door	Ctr	U Ctr	I	N/A	N/A	-0.1	QM
015	B	Wall	L Ctr		I	N/A	N/A	-0.2	QM
016	C	Wall	L Ctr		I	N/A	N/A	-0.1	QM
019	C	Window	Ctr	Well	I	N/A	N/A	-0.8	QM
018	C	Window	Ctr	Lft casing	I	N/A	N/A	0.0	QM
017	D	Wall	L Ctr		I	N/A	N/A	0.1	QM
Interior Room 903 118 F									
023	A	Wall	L Ctr		I	N/A	N/A	-0.2	QM
029	A	Door	Ctr	Rgt jamb	I	N/A	N/A	0.4	QM
030	A	Door	Ctr	Lft jamb	I	N/A	N/A	0.5	QM
031	A	Door	Ctr	U Ctr	I	N/A	N/A	-0.2	QM
024	B	Wall	L Ctr		I	N/A	N/A	-0.1	QM
025	C	Wall	L Ctr		I	N/A	N/A	0.0	QM
027	C	Window	Ctr	Well	I	N/A	N/A	0.0	QM
028	C	Window	Ctr	Lft casing	I	N/A	N/A	-0.5	QM
026	D	Wall	L Ctr		I	N/A	N/A	-0.1	QM
Interior Room 904 118 E									
032	A	Wall	L Ctr		I	N/A	N/A	-0.1	QM
039	A	Door	Ctr	Rgt casing	I	N/A	N/A	-0.1	QM
038	A	Door	Ctr	Lft jamb	I	N/A	N/A	0.1	QM
040	A	Door	Ctr	L Ctr	I	N/A	N/A	0.0	QM
033	B	Wall	L Ctr		I	N/A	N/A	0.0	QM
034	C	Wall	L Ctr		I	N/A	N/A	0.0	QM
036	C	Window	Ctr	Rgt casing	I	N/A	N/A	0.0	QM
037	C	Window	Ctr	Apron	I	N/A	N/A	-0.4	QM
035	D	Wall	L Ctr		I	N/A	N/A	-0.2	QM
Interior Room 905 117 B									
041	A	Wall	L Ctr		I	N/A	N/A	0.1	QM
048	A	Door	Ctr	Rgt jamb	I	N/A	N/A	0.0	QM
047	A	Door	Ctr	Lft jamb	I	N/A	N/A	-0.1	QM
049	A	Door	Ctr	U Ctr	I	N/A	N/A	-0.1	QM
042	B	Wall	L Ctr		I	N/A	N/A	0.0	QM
043	C	Wall	L Ctr		I	N/A	N/A	-0.3	QM
046	C	Window	Ctr	Well	I	N/A	N/A	0.0	QM
045	C	Window	Ctr	Lft casing	I	N/A	N/A	0.1	QM
044	D	Wall	L Ctr		I	N/A	N/A	-0.1	QM
Interior Room 906 117 A									
050	A	Wall	L Ctr		I	N/A	N/A	0.0	QM
057	A	Door	Ctr	Rgt casing	I	N/A	N/A	0.3	QM
056	A	Door	Ctr	Lft jamb	I	N/A	N/A	0.1	QM
058	A	Door	Ctr	L Ctr	I	N/A	N/A	-0.1	QM
051	B	Wall	L Ctr		I	N/A	N/A	-0.1	QM
052	C	Wall	L Ctr		I	N/A	N/A	-0.1	QM
055	C	Window	Ctr	Rgt casing	I	N/A	N/A	-0.3	QM
054	C	Window	Ctr	Well	I	N/A	N/A	0.0	QM
053	D	Wall	L Ctr		I	N/A	N/A	0.0	QM
Interior Room 907 120 A									
068	A	Wall	L Ctr		I	N/A	N/A	-0.2	QM
075	A	Door	Ctr	Rgt jamb	I	N/A	N/A	0.4	QM
074	A	Door	Ctr	Lft jamb	I	N/A	N/A	0.4	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: IL-074-001; Waukegan, IL

Reading No.	Wall	Structure	Location	Member	Paint			Lead (mg/cm ²)	Mode
					Cond	Substrate	Color		
076	A	Door	Ctr	U Ctr	I	N/A	N/A	-0.1	QM
069	B	Wall	L Ctr		I	N/A	N/A	-0.1	QM
070	C	Wall	L Ctr		I	N/A	N/A	-0.2	QM
072	C	Window	Ctr	Well	I	N/A	N/A	0.0	QM
073	C	Window	Ctr	Lft casing	I	N/A	N/A	-0.1	QM
071	D	Wall	L Ctr		I	N/A	N/A	-0.3	QM
Interior Room 908 Closet									
171	A	Wall	L Ctr		I	N/A	N/A	-0.3	QM
176	A	Ceiling			I	N/A	N/A	-0.3	QM
178	A	Door	Ctr	Rgt casing	I	Metal	Yellow	1.0	QM
177	A	Door	Ctr	Lft jamb	I	N/A	N/A	0.5	QM
179	A	Door	Ctr	U Ctr	I	N/A	N/A	0.0	QM
172	B	Wall	L Ctr		I	N/A	N/A	-0.2	QM
173	C	Wall	L Ctr		I	N/A	N/A	-0.1	QM
175	C	Ceiling			I	N/A	N/A	-0.1	QM
174	D	Wall	L Ctr		I	N/A	N/A	-0.1	QM
Comment: Reading 178 was taken from metal door casing, dark butterscotch in color.									
Interior Room 909 103 B									
207	A	Wall	L Ctr		I	N/A	N/A	-0.2	QM
214	A	Door	Ctr	Rgt jamb	I	N/A	N/A	0.0	QM
213	A	Door	Ctr	Lft jamb	I	N/A	N/A	0.0	QM
215	A	Door	Ctr	U Ctr	I	N/A	N/A	-0.3	QM
208	B	Wall	L Ctr		I	N/A	N/A	-0.1	QM
209	C	Wall	L Ctr		I	N/A	N/A	-0.2	QM
212	C	Window	Ctr	Rgt jamb	I	N/A	N/A	-0.4	QM
211	C	Window	Ctr	Well	I	N/A	N/A	0.0	QM
210	D	Wall	L Ctr		I	N/A	N/A	-0.1	QM
Interior Room 910 103 A									
216	A	Wall	L Ctr		I	N/A	N/A	0.0	QM
221	A	Door	Ctr	Rgt jamb	I	N/A	N/A	-0.1	QM
220	A	Door	Ctr	Lft jamb	I	N/A	N/A	0.0	QM
222	A	Door	Ctr	U Ctr	I	N/A	N/A	0.0	QM
217	B	Wall	L Ctr		I	N/A	N/A	-0.2	QM
218	C	Wall	L Ctr		I	N/A	N/A	-0.1	QM
219	D	Wall	L Ctr		I	N/A	N/A	-0.2	QM
Interior Room 911 103 C									
223	A	Wall	L Ctr		I	N/A	N/A	-0.3	QM
229	A	Door	Ctr	Rgt jamb	I	N/A	N/A	0.0	QM
230	A	Door	Ctr	Lft jamb	I	N/A	N/A	0.0	QM
231	A	Door	Ctr	L Ctr	I	N/A	N/A	-0.2	QM
224	B	Wall	L Ctr		I	N/A	N/A	-0.1	QM
225	C	Wall	L Ctr		I	N/A	N/A	-0.1	QM
228	C	Window	Ctr	Rgt jamb	I	N/A	N/A	0.0	QM
227	C	Window	Ctr	Well	I	N/A	N/A	-0.1	QM
226	D	Wall	L Ctr		I	N/A	N/A	-0.3	QM
Interior Room 912 102 A									
232	A	Wall	L Ctr		I	N/A	N/A	-0.2	QM
238	A	Door	Ctr	Rgt jamb	I	N/A	N/A	0.0	QM
239	A	Door	Ctr	Lft casing	I	N/A	N/A	0.3	QM
240	A	Door	Ctr	U Ctr	I	Wood	Natural	3.1	QM
233	B	Wall	L Ctr		I	N/A	N/A	-0.5	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: IL-074-001; Waukegan, IL

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
234	C	Wall	L Ctr		I	N/A	N/A	0.0	QM
236	C	Window	Ctr	Well	I	N/A	N/A	-0.2	QM
237	C	Window	Ctr	Lft jamb	I	N/A	N/A	0.1	QM
235	D	Wall	L Ctr		I	N/A	N/A	-0.1	QM
Interior Room 913 318 A									
314	A	Wall	L Ctr		I	N/A	N/A	-0.2	QM
320	A	Door	Ctr	Rgt jamb	I	N/A	N/A	-0.1	QM
319	A	Door	Ctr	Lft jamb	I	N/A	N/A	0.0	QM
318	A	Door	Ctr	U Ctr	I	N/A	N/A	0.0	QM
315	B	Wall	L Ctr		I	N/A	N/A	0.0	QM
316	C	Wall	L Ctr		I	N/A	N/A	-0.1	QM
317	D	Wall	L Ctr		I	N/A	N/A	-0.2	QM
Interior Room 914 318 B									
321	A	Wall	L Ctr		I	N/A	N/A	-0.3	QM
327	A	Door	Ctr	Rgt jamb	I	N/A	N/A	0.1	QM
328	A	Door	Ctr	Lft jamb	I	N/A	N/A	0.0	QM
329	A	Door	Ctr	U Ctr	I	N/A	N/A	0.0	QM
322	B	Wall	L Ctr		I	N/A	N/A	-0.2	QM
323	C	Wall	L Ctr		I	N/A	N/A	-0.2	QM
326	C	Window	Ctr	Rgt jamb	I	N/A	N/A	-0.4	QM
325	C	Window	Ctr	Well	I	N/A	N/A	0.2	QM
324	D	Wall	L Ctr		I	N/A	N/A	0.1	QM
Interior Room 915 318 C									
330	A	Wall	L Ctr		I	N/A	N/A	-0.2	QM
337	A	Door	Ctr	Rgt jamb	I	N/A	N/A	0.0	QM
336	A	Door	Ctr	Lft jamb	I	N/A	N/A	0.1	QM
338	A	Door	Ctr	U Ctr	I	N/A	N/A	0.1	QM
331	B	Wall	L Ctr		I	N/A	N/A	0.2	QM
332	C	Wall	L Ctr		I	N/A	N/A	-0.1	QM
335	C	Window	Ctr	Rgt jamb	I	N/A	N/A	-0.3	QM
334	C	Window	Ctr	Well	I	N/A	N/A	0.0	QM
333	D	Wall	L Ctr		I	N/A	N/A	-0.6	QM
Interior Room 916 318D Closet									
339	A	Wall	L Ctr		I	N/A	N/A	-0.1	QM
344	A	Door	Ctr	Rgt jamb	I	N/A	N/A	-0.2	QM
343	A	Door	Ctr	Lft jamb	I	N/A	N/A	0.0	QM
345	A	Door	Ctr	U Ctr	I	N/A	N/A	-0.1	QM
340	B	Wall	L Ctr		I	N/A	N/A	0.0	QM
341	C	Wall	L Ctr		I	N/A	N/A	-0.2	QM
342	D	Wall	L Ctr		I	N/A	N/A	-0.1	QM
Interior Room 917 203A Closet									
378	A	Wall	L Ctr		I	N/A	N/A	0.0	QM
383	A	Ceiling			I	N/A	N/A	-0.2	QM
385	A	Door	Ctr	Rgt jamb	I	N/A	N/A	-0.1	QM
386	A	Door	Ctr	Lft jamb	I	N/A	N/A	0.0	QM
387	A	Door	Ctr	U Ctr	I	N/A	N/A	-0.1	QM
379	B	Wall	L Ctr		I	N/A	N/A	0.3	QM
380	C	Wall	L Ctr		I	N/A	N/A	0.1	QM
382	C	Ceiling			I	N/A	N/A	-0.2	QM
384	C	Window	Ctr	Rgt casing	I	N/A	N/A	-0.2	QM
381	D	Wall	L Ctr		I	N/A	N/A	0.3	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: IL-074-001; Waukegan, IL

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
Interior Room 918 210 A									
407	A	Wall	L Ctr		I	N/A	N/A	-1.1	QM
412	A	Door	Ctr	Rgt jamb	I	N/A	N/A	-0.1	QM
413	A	Door	Ctr	Lft jamb	I	N/A	N/A	-0.2	QM
414	A	Door	Ctr	L Ctr	I	N/A	N/A	-0.5	QM
408	B	Wall	L Ctr		I	N/A	N/A	0.1	QM
409	C	Wall	L Ctr		I	N/A	N/A	0.0	QM
411	C	Window	Ctr	Sash	I	N/A	N/A	-0.1	QM
410	D	Wall	L Ctr		I	N/A	N/A	-0.6	QM
Interior Room 919 210 B									
415	A	Wall	L Ctr		I	N/A	N/A	-0.8	QM
420	A	Door	Ctr	Rgt jamb	I	N/A	N/A	-0.1	QM
419	A	Door	Ctr	Lft jamb	I	N/A	N/A	-0.1	QM
421	A	Door	Ctr	L Ctr	I	N/A	N/A	-0.1	QM
416	B	Wall	L Ctr		I	N/A	N/A	0.1	QM
417	C	Wall	L Ctr		I	N/A	N/A	0.0	QM
418	D	Wall	L Ctr		I	N/A	N/A	0.2	QM
Interior Room 920 208 A									
422	A	Wall	L Ctr		I	N/A	N/A	0.0	QM
427	A	Door	Ctr	Rgt jamb	I	N/A	N/A	0.0	QM
428	A	Door	Ctr	Lft casing	I	N/A	N/A	0.1	QM
429	A	Door	Ctr	U Ctr	I	N/A	N/A	0.0	QM
423	B	Wall	L Ctr		I	N/A	N/A	0.0	QM
424	C	Wall	L Ctr		I	N/A	N/A	-0.1	QM
425	D	Wall	L Ctr		I	N/A	N/A	0.2	QM
426	D	Window	Ctr	Rgt casing	I	N/A	N/A	-0.1	QM
Interior Room 921 133A Closet									
477	A	Wall	L Ctr		I	N/A	N/A	-0.4	QM
482	A	Door	Ctr	Rgt jamb	I	N/A	N/A	0.1	QM
481	A	Door	Ctr	Lft jamb	I	N/A	N/A	-0.5	QM
483	A	Door	Ctr	U Ctr	I	N/A	N/A	-0.1	QM
478	B	Wall	L Ctr		I	N/A	N/A	-0.2	QM
479	C	Wall	L Ctr		I	N/A	N/A	-0.2	QM
480	D	Wall	L Ctr		I	N/A	N/A	0.0	QM
484	D	Window	Ctr	Rgt casing	I	N/A	N/A	-0.2	QM
Interior Room 922 137 A									
500	A	Wall	L Ctr		I	N/A	N/A	-0.1	QM
505	A	Door	Ctr	Rgt jamb	I	N/A	N/A	0.0	QM
504	A	Door	Ctr	Lft jamb	I	N/A	N/A	0.0	QM
506	A	Door	Ctr	L Ctr	I	N/A	N/A	-0.1	QM
501	B	Wall	L Ctr		I	N/A	N/A	-0.3	QM
502	C	Wall	L Ctr		I	N/A	N/A	-0.1	QM
503	D	Wall	L Ctr		I	N/A	N/A	0.1	QM
Interior Room 923 137 B Bath									
507	A	Wall	L Ctr		I	Glazed Blk	Green	2.8	QM
512	A	Door	Ctr	Rgt jamb	I	N/A	N/A	-0.3	QM
511	A	Door	Ctr	Lft jamb	I	N/A	N/A	-0.1	QM
513	A	Door	Ctr	L Ctr	I	N/A	N/A	0.0	QM
508	B	Wall	L Ctr		I	Glazed Blk	Green	2.6	QM
509	C	Wall	L Ctr		I	N/A	N/A	-0.4	QM
510	D	Wall	L Ctr		I	N/A	N/A	-0.2	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: IL-074-001; Waukegan, IL

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
Interior Room 924 138 A									
522	A	Wall	L Ctr		I	Glazed Blk Green		3.6	QM
526	A	Floor			I	N/A	N/A	-0.3	QM
523	B	Wall	L Ctr		I	Glazed Blk Green		2.9	QM
524	C	Wall	L Ctr		I	Glazed Blk Green		3.3	QM
525	D	Wall	L Ctr		I	Glazed Blk Green		2.9	QM
Interior Room 925 138 B									
527	A	Wall	L Ctr		I	Glazed Blk Green		3.6	QM
531	A	Floor			I	N/A	N/A	-0.3	QM
528	B	Wall	L Ctr		I	Glazed Blk Green		3.5	QM
529	C	Wall	L Ctr		I	Glazed Blk Green		3.1	QM
530	D	Wall	L Ctr		I	Glazed Blk Green		3.3	QM
Interior Room 926 North Stair									
546	A	Stairs	Ctr	Wall	I	N/A	N/A	-0.2	QM
547	A	Stairs	Ctr	Baseboard	I	N/A	N/A	-0.2	QM
552	A	Stairs	Ctr	Risers	I	N/A	N/A	-0.3	QM
551	A	Stairs	Ctr	Newel post	I	N/A	N/A	-0.1	QM
550	A	Stairs	Ctr	Stringer	I	N/A	N/A	-0.1	QM
549	A	Stairs	Ctr	Balusters	I	N/A	N/A	-0.3	QM
548	A	Stairs	Ctr	Railing cap	I	N/A	N/A	-0.3	QM
Interior Room 927 South Stair									
553	A	Stairs	Ctr	Wall	I	N/A	N/A	-0.2	QM
554	A	Stairs	Ctr	Baseboard	I	N/A	N/A	-0.3	QM
555	A	Stairs	Ctr	Risers	I	N/A	N/A	-0.3	QM
557	A	Stairs	Ctr	Newel post	I	N/A	N/A	-0.4	QM
556	A	Stairs	Ctr	Stringer	I	N/A	N/A	-0.1	QM
558	A	Stairs	Ctr	Balusters	I	N/A	N/A	-0.3	QM
559	A	Stairs	Ctr	Railing cap	I	N/A	N/A	-0.4	QM
Calibration Readings									
001								1.1	Std
002								0.9	Std
003								0.9	Std
004								1.3	Std

---- End of Readings ----



SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: IL-074-002; Waukegan, IL

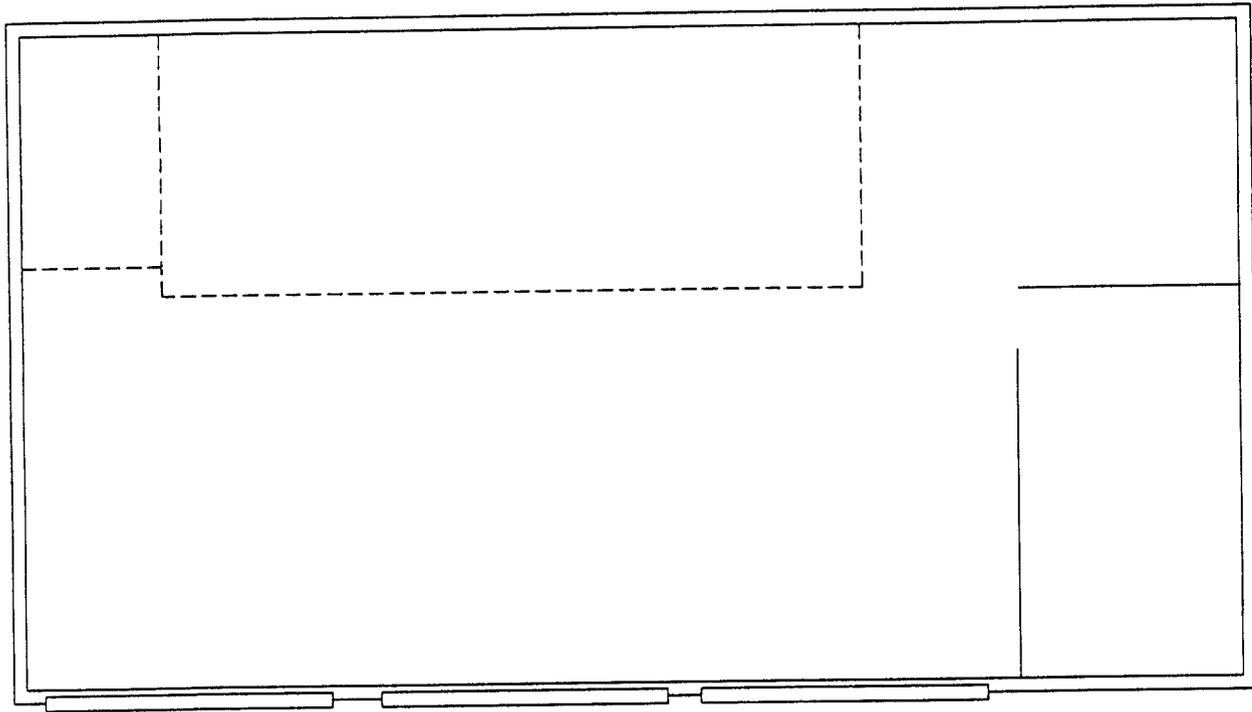
Inspection Date: 06/17/02 Waukegan OMS
 Report Date: 2/27/2006
 Abatement Level: 1.0
 Report No. S#01908 - 06/17/02 17:20
 Total Readings: 16 Actionable: 6
 Job Started: 06/17/02 17:20
 Job Finished: 06/17/02 17:30

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
Exterior Room 001 Number Only									
012	C	Door	Ctr	Rgt casing	F	Metal	Yellow	3.3	QM
011	C	Door	Ctr	Lft casing	F	Metal	Yellow	3.2	QM
013	D	Column	Lft	U column	I	Metal	Yellow	>9.9	QM
014	D	Column	Lft	L column	I	Metal	Yellow	>9.9	QM
015	D	Column	Rgt	U column	I	Metal	Yellow	>9.9	QM
016	D	Column	Rgt	L column	I	Metal	Yellow	>9.9	QM

Comment: Readings 11 and 12 were taken from the garage door, and are butterscotch in color.

Calibration Readings

---- End of Readings ----



FI
2710 Central Ave
St. Petersburg, Fl. 33712

USARC IL-074
OMS

Floor Plan
SCALE: NTS

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: IL-074-002; Waukegan, IL

Inspection Date: 06/17/02 Waukegan OMS
 Report Date: 2/27/2006
 Abatement Level: 1.0
 Report No. S#01908 - 06/17/02 17:20
 Total Readings: 16
 Job Started: 06/17/02 17:20
 Job Finished: 06/17/02 17:30

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
Exterior Room 001 Number Only									
005	A	Door	Ctr	Rgt jamb	I	N/A	N/A	0.1	QM
006	A	Door	Ctr	Lft jamb	I	N/A	N/A	-0.1	QM
007	A	Door	Ctr	U Ctr	I	N/A	N/A	-0.1	QM
009	C	Door	Ctr	Rgt jamb	I	N/A	N/A	-0.2	QM
012	C	Door	Ctr	Rgt casing	F	Metal	Yellow	3.3	QM
011	C	Door	Ctr	Lft casing	F	Metal	Yellow	3.2	QM
008	C	Door	Ctr	Lft jamb	I	N/A	N/A	-0.1	QM
010	C	Door	Ctr	L Ctr	I	N/A	N/A	0.0	QM
013	D	Column	Lft	U column	I	Metal	Yellow	>9.9	QM
014	D	Column	Lft	L column	I	Metal	Yellow	>9.9	QM
015	D	Column	Rgt	U column	I	Metal	Yellow	>9.9	QM
016	D	Column	Rgt	L column	I	Metal	Yellow	>9.9	QM

Comment: Readings 11 and 12 were taken from the garage door, and are butterscotch in color.

Calibration Readings

001	1.1	Std
002	0.9	Std
003	1.3	Std
004	0.9	Std

---- End of Readings ----

APPENDIX D

NEHA NRPP 101193
NPSB ARL0017

EPA Method #402-R-93-004
NEHA Device Code 8205
NRSB Device Code 12001

Laboratory Report For

Aires Consulting Group, Inc.-C Darling
1550 Hubbard Avenue
Batavia IL 60510

Property Tested

Project #: 05-23191
IL 074 Waukegan AFRC

Log Number	Device Number	Area Tested	Result (pCi/L)
715139	156927	Not Indicated	<0.4
715140	156926	Not Indicated	0.5
715141	156925	Not Indicated	1.2
			Average: 0.8

Radon test results are below the EPA action level of 4 pCi/L. No further action is required at this time. The EPA suggests that you may want to test again in the future to insure that radon levels remain below the action level.

Device number 156902 was not received.

Radon measurement performed by: International Training Institute of South Florida

Test Began: 9/27/2005

Date Received: 1/27/2006

Test Ended: 1/12/2006

Date Analyzed: 2/9/2006

Test Device(s) were open 107.00 days

Date Reported: 2/10/2006

Report Reviewed By: Copy for file. Original report has been mailed to the address above.

Disclaimer: The uncertainty of this radon measurement is $\sim\pm 15\%$. Factors contributing to uncertainty include, statistical variations, daily and seasonal variations in radon concentrations, and operation of the dwelling. Interference with test conditions may influence the test results.

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11 Awl Street Medway MA 02053 508-533-8812 508-533-8831

NEHA NRPP 101193
NRSB ARL0017

EPA Method #402-R-93-004
NEHA Device Code 8205
NRSB Device Code 12001

Laboratory Report For

Property Tested

Aires Consulting Group, Inc.-C Darling
1550 Hubbard Avenue
Batavia IL 60510

Project #: 05-23191
IL 074 Waukegan AFRC

Log Number	Device Number	Area Tested	Result (pCi/L)
715142	156924	Not Indicated	1.2
715143	156923	Not Indicated	0.9
715144	156922	Not Indicated	1.0
			Average: 0.8

Radon test results are below the EPA action level of 4 pCi/L. No further action is required at this time. The EPA suggests that you may want to test again in the future to insure that radon levels remain below the action level.

Device number 156902 was not received.

Radon measurement performed by: International Training Institute of South Florida

Test Began: 9/27/2005

Date Received: 1/27/2006

Test Ended: 1/12/2006

Date Analyzed: 2/9/2006

Test Device(s) were open 107.00 days

Date Reported: 2/10/2006

Report Reviewed By: Copy for file. Original report has been mailed to the address above.

Disclaimer: The uncertainty of this radon measurement is +/- 15 %. Factors contributing to uncertainty include, statistical variations, daily and seasonal variations in radon concentrations, and operation of the dwelling. Interference with test conditions may influence the test results.

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11 Awl Street Medway MA 02053 508-533-8812 508-533-8831

NEHA NRPP 101193
 NERSB ARL0017

EPA Method #402-R-93-004
 NEHA Device Code 8205
 NRSB Device Code 12001

Laboratory Report For

Property Tested

Aires Consulting Group, Inc.-C Darling
 1550 Hubbard Avenue
 Batavia IL 60510

Project #: 05-23191
 IL 074 Waukegan AFRC

Log Number	Device Number	Area Tested	Result (pCi/L)
715145	156921	Not Indicated	<0.4
715146	156920	Not Indicated	0.4
715147	156919	Not Indicated	0.7
			Average: 0.8

Radon test results are below the EPA action level of 4 pCi/L. No further action is required at this time. The EPA suggests that you may want to test again in the future to insure that radon levels remain below the action level.

Device number 156902 was not received.

Radon measurement performed by: International Training Institute of South Florida

Test Began: 9/27/2005

Date Received: 1/27/2006

Test Ended: 1/12/2006

Date Analyzed: 2/9/2006

Test Device(s) were open 107.00 days

Date Reported: 2/10/2006

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11 Awl Street Medway MA 02053 508-533-8812 508-533-8831

NEHA NRPP 101193
NCRB ARL0017EPA Method #402-R-93-004
NEHA Device Code 8205
NRSB Device Code 12001

Laboratory Report For

Property Tested

Aires Consulting Group, Inc.-C Darling
1550 Hubbard Avenue
Batavia IL 60510Project #: 05-23191
IL 074 Waukegan AFRC

Log Number	Device Number	Area Tested	Result (pCi/L)
715148	156918	Not Indicated	1.7
715149	156917	Not Indicated	2.7
715150	156916	Not Indicated	2.4
			Average: 0.8

Radon test results are below the EPA action level of 4 pCi/L. No further action is required at this time. The EPA suggests that you may want to test again in the future to insure that radon levels remain below the action level.

Device number 156902 was not received.

Radon measurement performed by: International Training Institute of South Florida

T Began: 9/27/2005

Date Received: 1/27/2006

Test Ended: 1/12/2006

Date Analyzed: 2/9/2006

Test Device(s) were open 107.00 days

Date Reported: 2/10/2006

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11 Awl Street Medway MA 02053 508-533-8812 508-533-8831

NEHA NRPP 101193
NPSR ARL0017

EPA Method #402-R-93-004
NEHA Device Code 8205
NRSB Device Code 12001

Laboratory Report For

Aires Consulting Group, Inc.-C Darling
1550 Hubbard Avenue
Batavia IL 60510

Property Tested

Project #: 05-23191
IL 074 Waukegan AFRC

Log Number	Device Number	Area Tested	Result (pCi/L)
715151	156915	Not Indicated	1.1
715152	156914	Not Indicated	0.6
715153	156913	Not Indicated	0.6
			Average: 0.8

Radon test results are below the EPA action level of 4 pCi/L. No further action is required at this time. The EPA suggests that you may want to test again in the future to insure that radon levels remain below the action level.

Device number 156902 was not received.

Radon measurement performed by: International Training Institute of South Florida

Test Began: 9/27/2005

Date Received: 1/27/2006

Test Ended: 1/12/2006

Date Analyzed: 2/9/2006

Test Device(s) were open 107.00 days

Date Reported: 2/10/2006

Report Reviewed By: *Copy for file. Original report has been mailed to the address above.*

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11 Awl Street Medway MA 02053 508-533-8812 508-533-8831

NEHA NRPP 101193
NRCB ARL0017EPA Method #402-R-93-004
NEHA Device Code 8205
NRSB Device Code 12001

Laboratory Report For

Property Tested

Aires Consulting Group, Inc.-C Darling
1550 Hubbard Avenue
Batavia IL 60510Project #: 05-23191
IL 074 Waukegan AFRC

Log Number	Device Number	Area Tested	Result (pCi/L)
715154	156912	Not Indicated	1.2
715155	156911	Not Indicated	<0.4
715156	156910	Not Indicated	0.6
			Average: 0.8

Radon test results are below the EPA action level of 4 pCi/L. No further action is required at this time. The EPA suggests that you may want to test again in the future to insure that radon levels remain below the action level.

Device number 156902 was not received.

Radon measurement performed by: International Training Institute of South Florida

Test Began: 9/27/2005

Date Received: 1/27/2006

Test Ended: 1/12/2006

Date Analyzed: 2/9/2006

Test Device(s) were open 107.00 days

Date Reported: 2/10/2006

Report Reviewed By: *Copy for file. Original report has been mailed to the address above.*

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11 Awl Street Medway MA 02053 508-533-8812 508-533-8831

NEHA NRPP 101193
 NEHA ARL0017

EPA Method #402-R-93-004
 NEHA Device Code 8205
 NRSB Device Code 12001

Laboratory Report For

Property Tested

Aires Consulting Group, Inc.-C Darling
 1550 Hubbard Avenue
 Batavia IL 60510

Project #: 05-23191
 IL 074 Waukegan AFRC

Log Number	Device Number	Area Tested	Result (pCi/L)
715157	156909	Not Indicated	0.6
715158	156898	Not Indicated	0.9
715159	156908	Not Indicated	<0.4
			Average: 0.8

Radon test results are below the EPA action level of 4 pCi/L. No further action is required at this time. The EPA suggests that you may want to test again in the future to insure that radon levels remain below the action level.

Device number 156902 was not received.

Radon measurement performed by: International Training Institute of South Florida

Test Began: 9/27/2005

Date Received: 1/27/2006

Test Ended: 1/12/2006

Date Analyzed: 2/9/2006

Test Device(s) were open 107.00 days

Date Reported: 2/10/2006

Report Reviewed By: *Copy for file. Original report has been mailed to the address above.*

Disclaimer: The uncertainty of this radon measurement is $\pm 15\%$. Factors contributing to uncertainty include, statistical variations, daily and seasonal variations in radon concentrations, and operation of the dwelling. Interference with test conditions may influence the test results.

This report may only be transferred to a third party in its entirety. Results shown on this report represent levels of radon gas measured between the dates shown in the room or area of the site identified above as "Property Tested". Incorrect information will affect results. The results may not be construed as either predictive or supportive of measurements conducted in any area of this structure at any other time. AccuStar Labs, its employees and agents are not responsible for the consequences of any action taken or not taken based upon the results reported or any verbal or written interpretation of the results.

Page 7 of 11

11 Awl Street Medway MA 02053 508-533-8812 508-533-8831

NEHA NRPP 101193
N 3 ARL0017

EPA Method #402-R-93-004
NEHA Device Code 8205
NRSB Device Code 12001

Laboratory Report For

Property Tested

Aires Consulting Group, Inc.-C Darling
1550 Hubbard Avenue
Batavia IL 60510

Project #: 05-23191
IL 074 Waukegan AFRC

Log Number	Device Number	Area Tested	Result (pCi/L)
715160	156907	Not Indicated	<0.4
715161	156906	Not Indicated	<0.4
715162	156905	Not Indicated	<0.4
			Average: 0.8

Radon test results are below the EPA action level of 4 pCi/L. No further action is required at this time. The EPA suggests that you may want to test again in the future to insure that radon levels remain below the action level.

Device number 156902 was not received.

Radon measurement performed by: International Training Institute of South Florida

Began: 9/27/2005
Test Ended: 1/12/2006
Test Device(s) were open 107.00 days

Date Received: 1/27/2006
Date Analyzed: 2/9/2006
Date Reported: 2/10/2006

Report Reviewed By: Copy for file. Original report has been mailed to the address above.

Disclaimer: The uncertainty of this radon measurement is ~+/- 15 %. Factors contributing to uncertainty include, statistical variations, daily and seasonal variations in radon concentrations, and operation of the dwelling. Interference with test conditions may influence the test results.

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NEHA NRPP 101193
NRCB ARL0017

EPA Method #402-R-93-004
NEHA Device Code 8205
NRSB Device Code 12001

Laboratory Report For

Property Tested

Aires Consulting Group, Inc.-C Darling
1550 Hubbard Avenue
Batavia IL 60510

Project #: 05-23191
IL 074 Waukegan AFRC

Log Number	Device Number	Area Tested	Result (pCi/L)
715163	156904	Not Indicated	1.2
715164	156903	Not Indicated	0.8
715165	156901	Not Indicated	0.7
			Average: 0.8

Radon test results are below the EPA action level of 4 pCi/L. No further action is required at this time. The EPA suggests that you may want to test again in the future to insure that radon levels remain below the action level.

Device number 156902 was not received.

Radon measurement performed by: International Training Institute of South Florida

Test Began: 9/27/2005

Date Received: 1/27/2006

Test Ended: 1/12/2006

Date Analyzed: 2/9/2006

Test Device(s) were open 107.00 days

Date Reported: 2/10/2006

Report Reviewed By: Copy for file. Original report has been mailed to the address above.

Disclaimer: The uncertainty of this radon measurement is $\sim\pm 15\%$. Factors contributing to uncertainty include, statistical variations, daily and seasonal variations in radon concentrations, and operation of the dwelling. Interference with test conditions may influence the test results.

This report may only be transferred to a third party in its entirety. Results shown on this report represent levels of radon gas measured between the dates shown in the room or area of the site identified above as "Property Tested". Incorrect information will affect results. The results may not be construed as either predictive or supportive of measurements conducted in any area of this structure at any other time. AccuStar Labs, its employees and agents are not responsible for the consequences of any action taken or not taken based upon the results reported or any verbal or written interpretation of the results.

Page 9 of 11

11 Awl Street Medway MA 02053 508-533-8812 508-533-8831

NEHA NRPP 101193
NPL ARL0017

EPA Method #402-R-93-004
NEHA Device Code 8205
NRSB Device Code 12001

Laboratory Report For

Property Tested

Aires Consulting Group, Inc.-C Darling
1550 Hubbard Avenue
Batavia IL 60510

Project #: 05-23191
IL 074 Waukegan AFRC

Log Number	Device Number	Area Tested	Result (pCi/L)
715166	156900	Not Indicated	0.6
715167	156899	Not Indicated	0.6
715168	156856	Not Indicated	<0.4
			Average: 0.8

Radon test results are below the EPA action level of 4 pCi/L. No further action is required at this time. The EPA suggests that you may want to test again in the future to insure that radon levels remain below the action level.

Device number 156902 was not received.

Radon measurement performed by: International Training Institute of South Florida

Test Began: 9/27/2005
Test Ended: 1/12/2006
Test Device(s) were open 107.00 days

Date Received: 1/27/2006
Date Analyzed: 2/9/2006
Date Reported: 2/10/2006

Report Reviewed By: Copy for file. Original report has been mailed to the address above.

Disclaimer: The uncertainty of this radon measurement is +/- 15 %. Factors contributing to uncertainty include, statistical variations, daily and seasonal variations in radon concentrations, and operation of the dwelling. Interference with test conditions may influence the test results.

This report may only be transferred to a third party in its entirety. Results shown on this report represent levels of radon gas measured between the dates shown in the room or area of the site identified above as "Property Tested". Incorrect information will affect results. The results may not be construed as either predictive or supportive of measurements conducted in any area of this structure at any other time. AccuStar Labs, its employees and agents are not responsible for the consequences of any action taken or not taken based upon the results reported or any verbal or written interpretation of the results.

NEHA NRPP 101193
NRSB ARL0017EPA Method #402-R-93-004
NEHA Device Code 8205
NRSB Device Code 12001

Laboratory Report For

Property Tested

Aires Consulting Group, Inc.-C Darling
1550 Hubbard Avenue
Batavia IL 60510Project #: 05-23191
IL 074 Waukegan AFRC

Log Number	Device Number	Area Tested	Result (pCi/L)
715169	156855	Not Indicated	<0.4
715170	156854	Not Indicated	<0.4
			Average: 0.8

Radon test results are below the EPA action level of 4 pCi/L. No further action is required at this time. The EPA suggests that you may want to test again in the future to insure that radon levels remain below the action level.

Device number 156902 was not received.

Radon measurement performed by: International Training Institute of South Florida

Test Began: 9/27/2005

Date Received: 1/27/2006

Test Ended: 1/12/2006

Date Analyzed: 2/9/2006

Test Device(s) were open 107.00 days

Date Reported: 2/10/2006

Report Reviewed By: *Copy for file. Original report has been mailed to the address above.*

Disclaimer: The uncertainty of this radon measurement is ~+/- 15 %. Factors contributing to uncertainty include, statistical variations, daily and seasonal variations in radon concentrations, and operation of the dwelling. Interference with test conditions may influence the test results.

This report may only be transferred to a third party in its entirety. Results shown on this report represent levels of radon gas measured between the dates shown in the room or area of the site identified above as "Property Tested". Incorrect information will affect results. The results may not be construed as either predictive or supportive of measurements conducted in any area of this structure at any other time. AccuStar Labs, its employees and agents are not responsible for the consequences of any action taken or not taken based upon the results reported or any verbal or written interpretation of the results.

Page 11 of 11

11 Awl Street Medway MA 02053 508-533-8812 508-533-8831

Client: ITI of South Florida

Project No.: 05-23191

RMP: Tony Arms

IL license No.: RNI2005215



Device Type: Alpha-Track

Lab Name and ID#: Accustar

"An Employee Owned Company"

Sampling Location: Waukegan IL 074

Device No.	Location		Sample Duration		Duplicate	Comments (variations, uncertainties, etc)
	Floor	Room	On Date/Time	Off Date/Time		
156927	1	Family Support	9/27/05 9:20			
156926	1	Class Room 101	9/27/05 9:31			
156925	1	Room 102C	9/27/05 9:34			
156924	1	Room 103B	9/27/05 9:39			
156923	1	Room 103D	9/27/05 9:41			
156922	1	Room 104	9/27/05 9:44			
156921	1	Room 105	9/27/05 9:46			
156920	1	Retention Room	9/27/05 9:58			
156919	1	Room 113	9/27/05 10:00			
156918	1	Room 117A	9/27/05 10:15			
156917	1	Room 117A	9/27/05 10:15		X	
156916	1	Room 117B	9/27/05 10:25			
156915	1	Room 118A	9/27/05 10:27			
156914	1	Room 118B	9/27/05 10:31			
156913	1	Room 118C	9/27/05 10:34			

Client: ITI of South Florida

Project No.: 05-23191

RMP: Tony Arms

IL license No.: RN #2005215



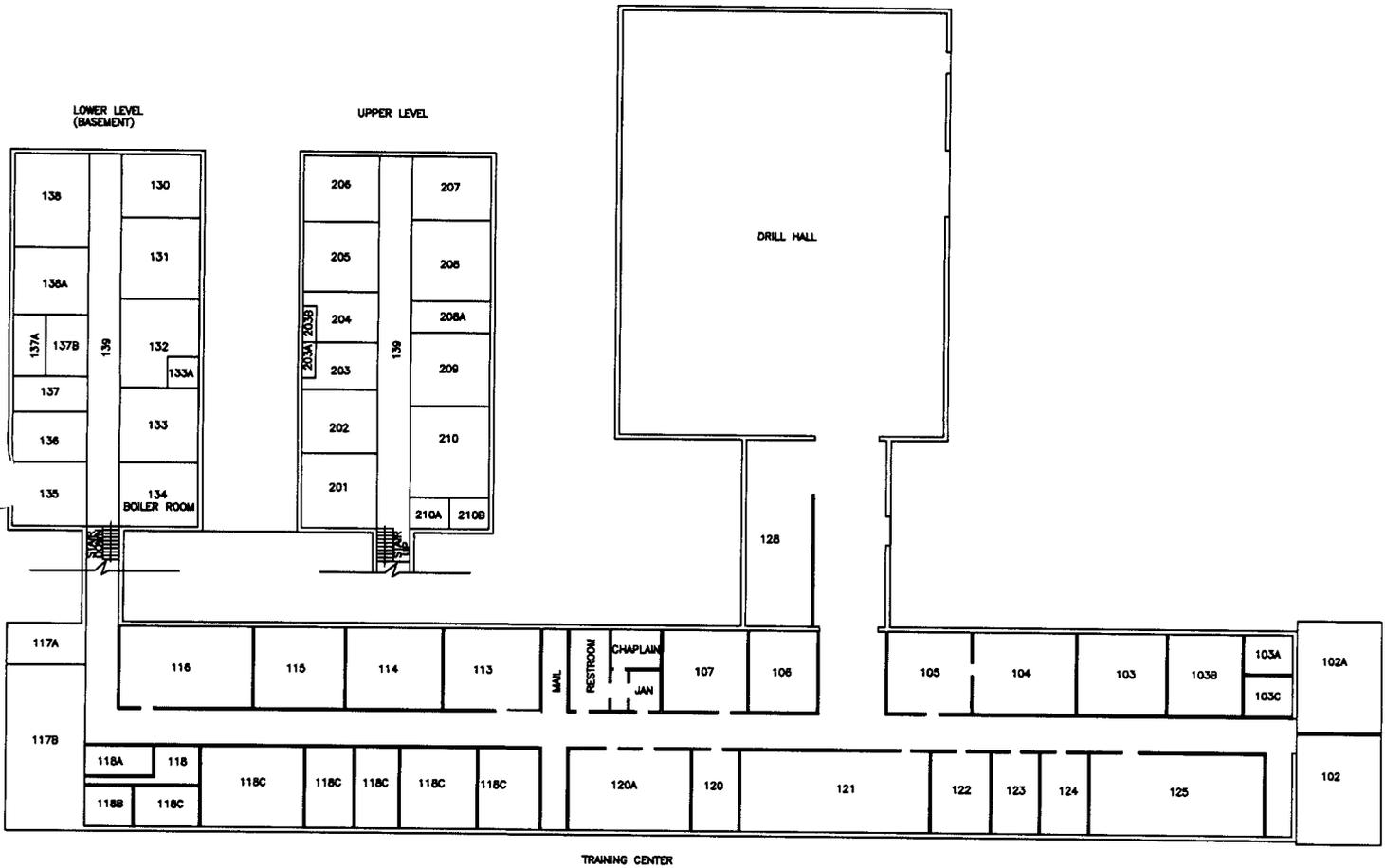
Device Type: Alpha-Track

Lab Name and ID#: Accustar

"An Employee Owned Company"

Sampling Location: Wakeham IL074

Device No.	Location		Sample Duration		Duplicate	Comments (variations, uncertainties, etc)
	Floor	Room	On Date/Time	Off Date/Time		
156912	1	118E	9/27/05 10:37			
156911	1	118F	9/27/05 10:37			
156910	1	118G	9/27/05 10:41			
156909	1	118H	9/27/05 11:30			
156908	1	120A	9/27/05 10:46			
156907	1	120B	9/27/05 10:48			
156906	1	121	9/27/05 10:52			
156905	1	124	9/27/05 10:56			
156904	1	Conference Room	9/27/05 10:59			
156903	1	Armory	9/27/05 11:01			
156902	1	Gym	9/27/05 11:15			Taped to back of Cable Crossbar
156901	1	Training office	9/27/05 11:21			
156900	1	Training office	9/27/05 11:21		X	
156899	1	Training office REC	9/27/05 11:24			
156898	1	118H	9/27/05 11:30		X	



2710
2710 Central Ave
St. Petersburg, Fl. 33712

USARC IL-074
Waukegan

Floor Plan

SCALE: NTS

~~FL 074~~ FL 074

NEHA NRPP #101193 AL
IB #ARL0017

EPA Method #402-R-93-004 0792
NEHA Device # 8205
NRSB Device # 12001

Laboratory Report For

Property Tested

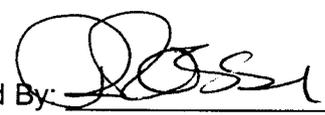
International Training Institute-G. Bakshi
2710 Central Avenue
Saint Petersburg FL 33712

Waukeegon AFRC
1721 North McAree Road
Waukeegon IL 60085

Laboratory ID	Device Number	Area Tested	Result
689844	101251	Admin Office	0.9 pCi/L
689845	101253	VA Office	0.8 pCi/L

Radon test results are below the EPA action level of 4 pCi/L. No further action is required at this time. The EPA suggests that you may want to test again in the future to insure that radon levels remain below the action level.

Test Began: 12/11/2003	Date Received: 10/5/2005
Test Ended: 9/20/2005	Date Analyzed: 10/12/2005
Test Device (s) were open 649 days	Date Reported: 10/12/2005

Report Reviewed By: 

Disclaimer: The uncertainty of this radon measurement is +/- 15 %. Factors contributing to uncertainty include, statistical variations, daily and seasonal variations in radon concentrations, and operation of the dwelling. Interference with test conditions may influence the test results. This report may only be transferred to a third party in its entirety. Results shown on this report represent levels of radon gas measured between the dates shown in the room or area of the site identified above as "Property Tested". Incorrect information will affect results. The results may not be construed as either predictive or supportive of measurements conducted in any area of this structure at any other time. AccuStar Labs, its employees and agents are not responsible for the consequences of any action taken or not taken based upon the results reported or any verbal or written interpretation of the results.

Send Written Report To:

G. Bakshi ITI
 2710 CENTRAL AVE
 ST. PETERSBURG FL 33712
 Contact: G. Bakshi Tel: 727-8029223

Project Number:

16-074

Site Name

WAUKEEGON AFRC

Address

121 N. McAREE RD

City State Zip

WAUKEEGON, 111 60085

Person Conducting Test:

G. Bakshi

Start Date: 12-16-03 Stop Date: 9-20-05

Start and Stop Times and Dates must be entered

Lab Use Only	Device Number	Building #	Unit #	Floor	Location	Start Time	Stop Time	Lab Use
	101251	16-074			Administration office	930 AM	NOON	
	101253	16-074			UA office	930 AM	NOON	

REM Alpha Track Radon Field Data Sheet

Program _____

Recorded by W. J. [Signature]

Page _____

Wakeham IC

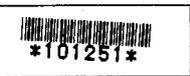
1L-047-001

Detector #
(all Bar
Code Label)

Date
Installed

Date
Removed

Comments & Location (building, floor, room, etc.)



12/11/03
A

Ms. Veronica OC Mid OC ≈ 6' high



S-1 OC. Mid OC ≈ 6' high



UA OC Mid OC ≈ 6' high



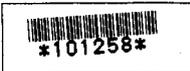
Training OC Marine Mid OC ≈ 6' high



Evo OC Marine side Mid OC ≈ 6' high



CO OC Marine side Mid OC ≈ 6' high



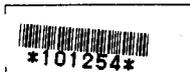
Medical Opt. OC Mid OC ≈ 6' high



1st Sgt OC Marine Mid OC ≈ 6' high



1st Sgt OC Marine Mid OC ≈ 6' high



12/11/03

Marine Head Admin OC ≈ 6' high



12/11/03

Corro AREAGround h. Marine ≈ 6' high

* Collected

AccuStar Radon Labs (REM)
 3334 Commercial Avenue
 Northbrook, IL 60062 USA
 (847) 205-0110

ERA
 Narciso Martinez
 514 1st Ave. SW
 Largo, FL 33770

Report Date Oct 4, 2002

Monitor	pCi/l	Installed	Removed	Days Used	pCi/l-days	Tracks	Sq. mm Counted	Notes	
970182	.8	2-20-02	9-12-02	204	155	159	43	1721 N. McCaree Rd. - Office #120B south wall	ILO 74
970183	1.6	2-20-02	9-12-02	204	318	297	43	Office #121 south wall	
970184	1.2	2-20-02	9-12-02	204	251	241	43	Office #10A east wall	
970185	5.1	2-20-02	9-12-02	204	1036	874	43	Office #118H east wall	
970186	5.2	2-20-02	9-12-02	204	1069	894	43	Office #118H east wall	

The uncertainty (standard deviation) of an alpha track radon measurement is $\pm 15\%$.



AccuStar Radon Labs (REM)
3334 Commercial Avenue
Northbrook, IL 60062 USA
(847) 205-0110

ERA
Narciso Martinez
514 1st Ave. SW
Largo, FL 33770

Report Date Oct 4, 2002

Monitor	pCi/l	Installed	Removed	Days Used	pCi/l-days	Tracks	Sq. mm Counted	Notes
970191	.8	2-20-02	9-12-02	204	168	170	43	1721 N. McCarree Rd. - Motorpool south side

The uncertainty (standard deviation) of an alpha track radon measurement is $\pm 15\%$.

REM Alpha Track Radon Field Data Sheet

Program FLO7A Report Address: 1721 N. CUMBERLAND Recorded by TEJ Page

WICKESAN, IL 60085

Detector # _____
Serial # _____
Model # _____
Code (see) _____
Date Installed _____ Date Removed _____
Comments & Location (building, floor, room, etc.) _____



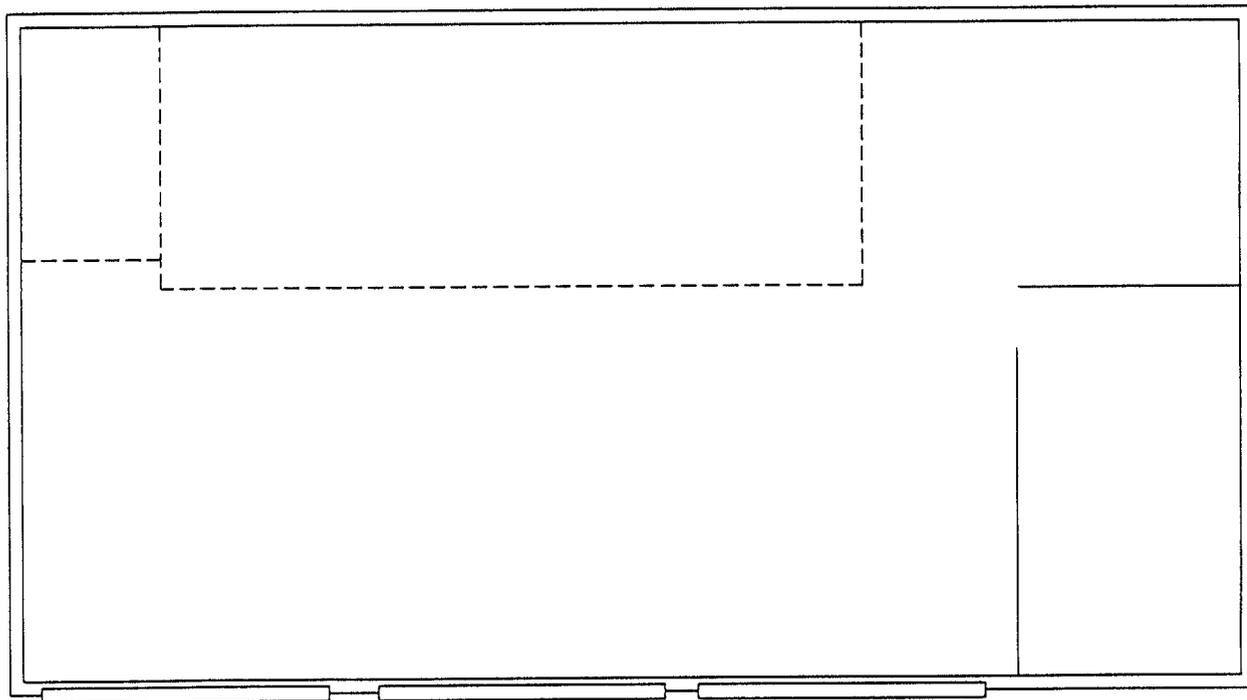
02/20/02

Waterproof - Mid Bay by column = 5'4" high



02/20/02

Waterproof - Southside of cage = 5'6" high



**2710 Central Ave
St. Petersburg, Fl. 33712**

**USARC IL-074
OMS**

Floor Plan
SCALE: NTS

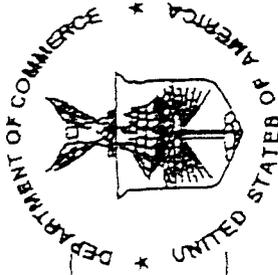
APPENDIX E

United States Department of Commerce
National Institute of Standards and Technology

[®]
NVLAP

ISO/IEC 17025:1999
ISO 9002:1994

Certificate of Accreditation



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

*Is recognized by the National Voluntary Laboratory Accreditation Program
for satisfactory compliance with criteria set forth in NIST Handbook 150:2001,
all requirements of ISO/IEC 17025:1999, and relevant requirements of ISO 9002:1994.
Accreditation is awarded for specific services, listed on the Scope of Accreditation, for:*

BULK ASBESTOS FIBER ANALYSIS

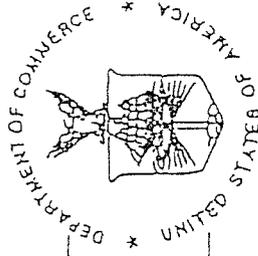
March 31, 2006

Effective through

For the National Institute of Standards and Technology
NVLAP Lab Code: 200303-0

United States Department of Commerce
National Institute of Standards and Technology

NVLAP[®]



ISO/IEC 17025:1999
ISO 9002:1994

Certificate of Accreditation

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

is recognized by the National Voluntary Laboratory Accreditation Program
for satisfactory compliance with criteria set forth in NIST Handbook ISO:2001,
all requirements of ISO/IEC 17025:1999, and relevant requirements of ISO 9002:1994.
Accreditation is awarded for specific services, listed on the Scope of Accreditation, for:

BULK ASBESTOS FIBER ANALYSIS

March 31, 2005

A handwritten signature in black ink, appearing to read "J. P. W. L. P.", positioned above a horizontal line.

Effective through

For the National Institute of Standards and Technology
NVLAP Lab Code: 200303-0

APPENDIX F



State of Illinois A 129496

Department of Public Health

LICENSE, PERMIT, CERTIFICATION, REGISTRATION

The person, firm or corporation whose name appears on this certificate has complied with the provisions of the Illinois Statutes and/or rules and regulations and is hereby authorized to engage in the activity as indicated below

JOHN R. LUMPKIN, M.D.
DIRECTOR

Issued under the authority of
The State of Illinois
Department of Public Health

EXPIRATION DATE	CATEGORY	I.D. NUMBER
05/15/2003	5319	100-9988
ANGEL MENENDEZ		
INSPECTOR		

BUSINESS ADDRESS

ASBESTOS PROFESSIONAL LICENSE

ALTERING THIS CERTIFICATE MAY RESULT IN LEGAL ACTION

ANGEL MENENDEZ

56 AUBURN AVE

FORTSON

GA 31808

THIS LICENSE IS NOT VALID IF YOUR IDPH

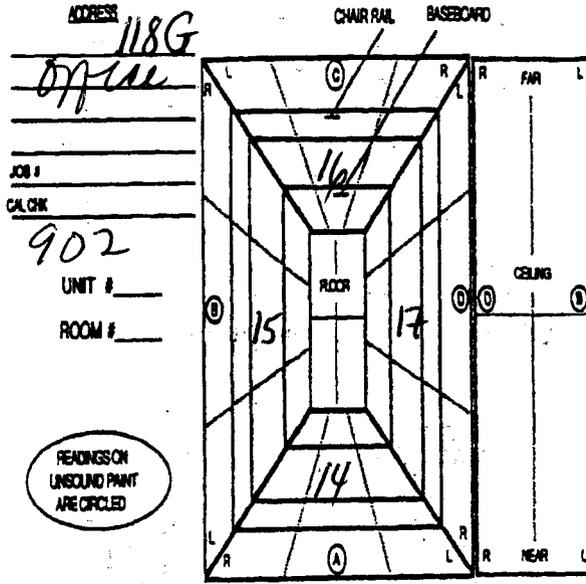
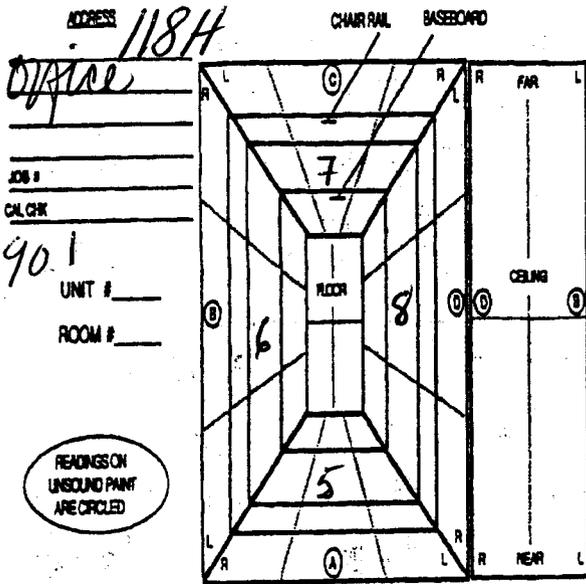
COURSE CERTIFICATE IS NOT CURRENT

Printed by Authority of the State of Illinois • 2/91 •

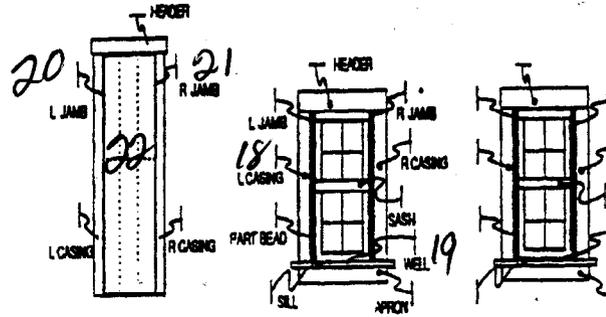
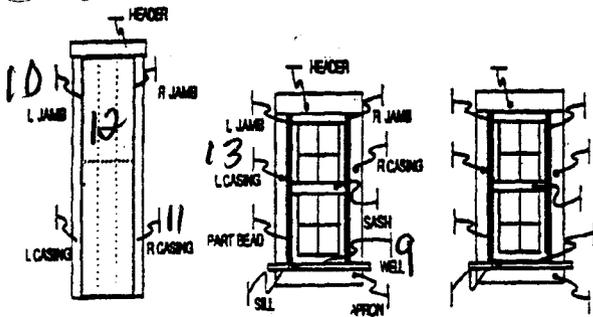
APPENDIX G

WAUKEGAN AFRC
 IL-074
 1721 N. MCAREE RD.
 WAUKEGAN, IL.

LBP file: 06151303



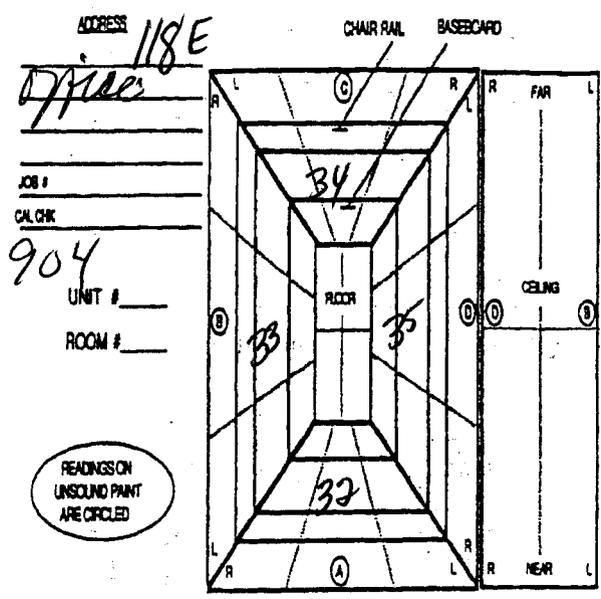
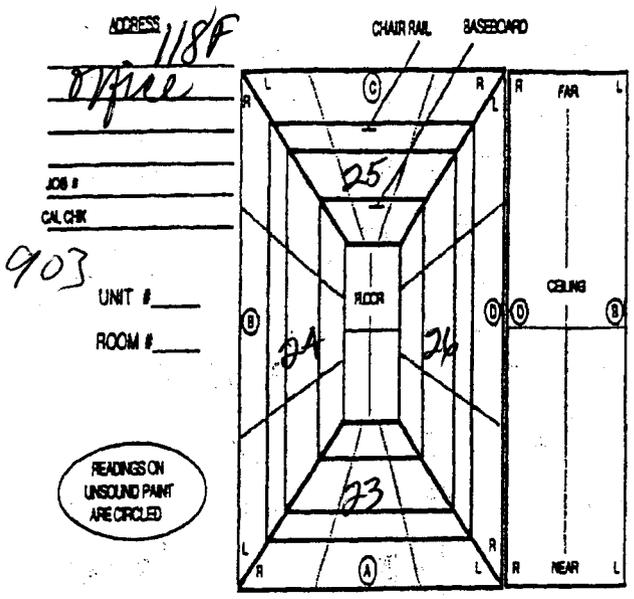
WALL A B C D
 LEFT
 RIGHT
 CENTER



COMMENTS: WALLS A and C ARE OF SMOOTH TROWLED-ON CEMENT OVER CONCRETE BLOCKS, SUBSTRATE AND OF OFF WHITE FINISH. THE DOOR IS OF SHEA-LAC WOODEN SUBSTRATE, AND THE DOOR JAMB AND COMPONENTS IS OF DPK BUTTER SCOTCH OVER METAL SUBSTRATE. THE WINDOWS WELL IS OF BUTTER SCOTCH FINISHED OVER WOODEN SUBSTRATE. THE WINDOWS OR A BLACK METAL FRAME.

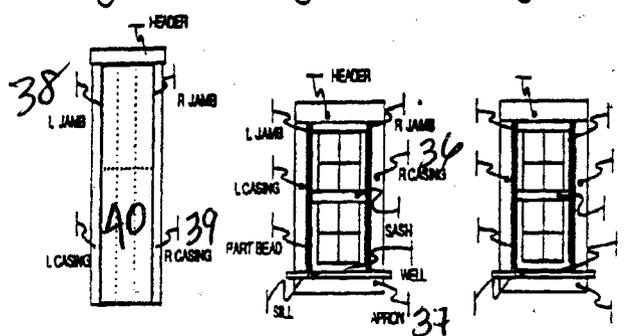
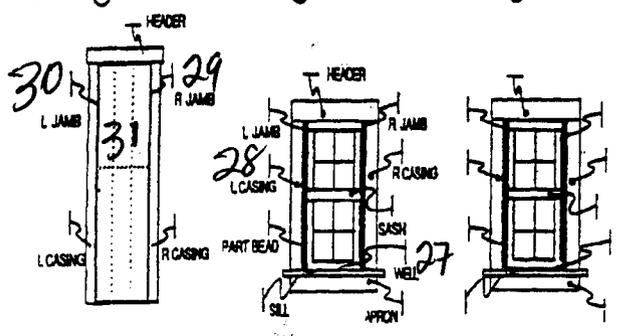
COMMENTS: WALLS A & C ARE OF SMOOTH TROWLED-ON CEMENT OVER CONCRETE BLOCKS SUBSTRATE AND OFF WHITE FINISH. THE DOOR IS OF SHEA-LAC WOODEN SUBSTRATE AND THE DOOR JAMB IS OF DPK BUTTER SCOTCH METAL SUBSTRATE. THE WINDOWS WELL IS OF DPK BUTTER SCOTCH WOODEN SUBSTRATE AND THE WINDOW IS OF BLACK METAL FRAMED SUBSTRATE.

SAMPLE 1, 2, 3, & 4 ARE CALIBRATION SAMPLES.



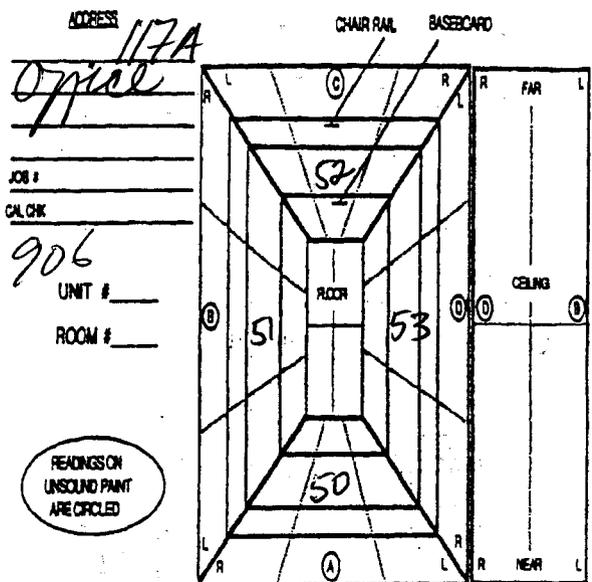
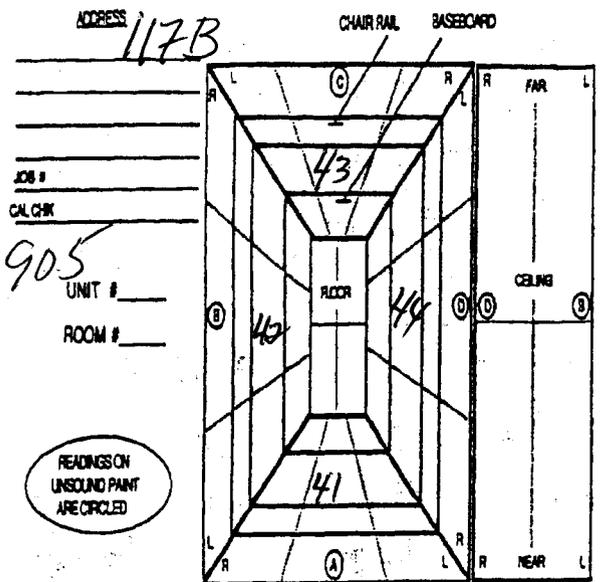
- | | | |
|----------------------|----------------------|----------------------|
| WALL (A) (B) (C) (D) | WALL (A) (B) (C) (D) | WALL (A) (B) (C) (D) |
| LEFT () | LEFT () | LEFT () |
| RIGHT () | RIGHT () | RIGHT () |
| CENTER () | CENTER () | CENTER () |

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



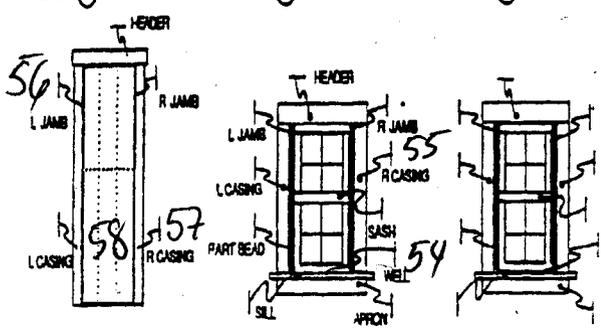
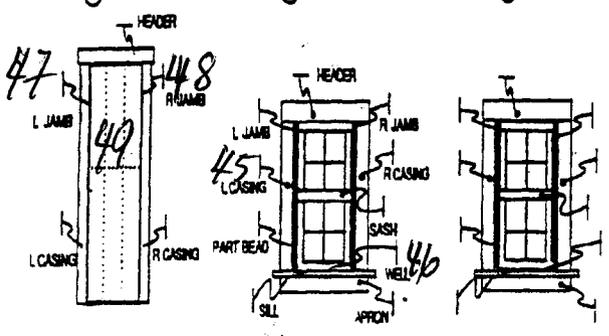
COMMENTS: Walls A and C are of smooth trowled-on cement over concrete blocks substrate and of off white finish. The door is of shea-lac wooden substrate, and the door jamb and components is of Dek Butter scotch over metal substrate. The windows well is of Butter scotch finished over wooden substrate. The windows of a Black metal frame.

COMMENTS: Walls A & C are of smooth trowled-on cement over concrete blocks substrate and off white finish. The door is of shea-lac wooden substrate and the door jamb is of Dek Butter scotch metal substrate. The windows well is of Dek Butter scotch wooden substrate and the window is of Black metal framed substrate.



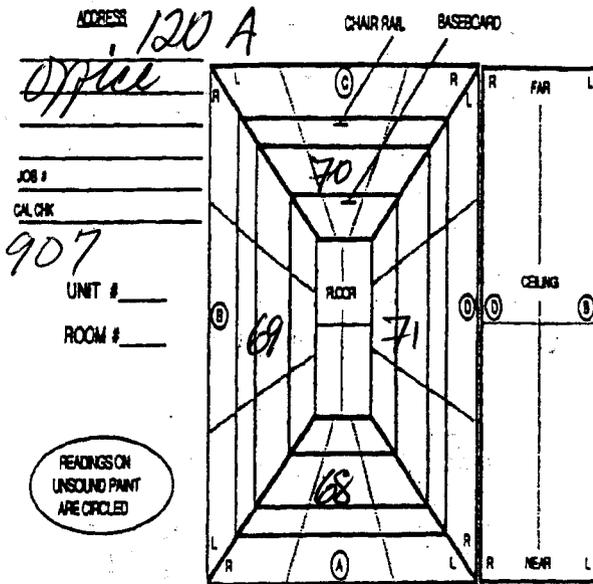
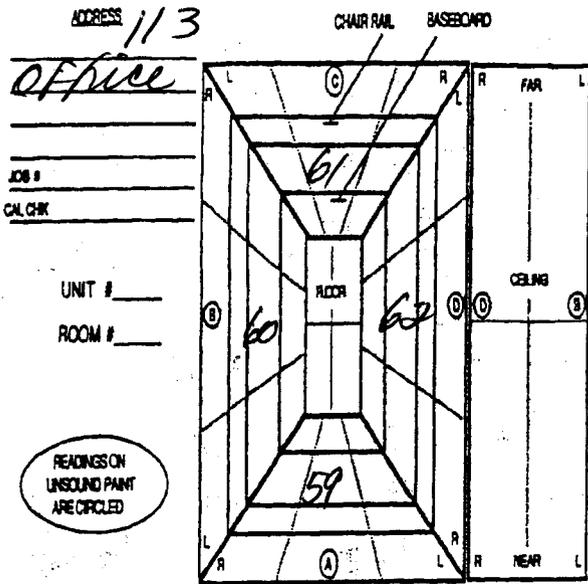
- | | | |
|---------------------------------|---------------------------------|---------------------------------|
| WALL A B C D | WALL A B C D | WALL A B C D |
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| RIGHT <input type="checkbox"/> | RIGHT <input type="checkbox"/> | RIGHT <input type="checkbox"/> |
| CENTER <input type="checkbox"/> | CENTER <input type="checkbox"/> | CENTER <input type="checkbox"/> |

- | | | |
|---------------------------------|---------------------------------|---------------------------------|
| WALL A B C D | WALL A B C D | WALL A B C D |
| LEFT <input type="checkbox"/> | LEFT <input type="checkbox"/> | LEFT <input type="checkbox"/> |
| RIGHT <input type="checkbox"/> | RIGHT <input type="checkbox"/> | RIGHT <input type="checkbox"/> |
| CENTER <input type="checkbox"/> | CENTER <input type="checkbox"/> | CENTER <input type="checkbox"/> |

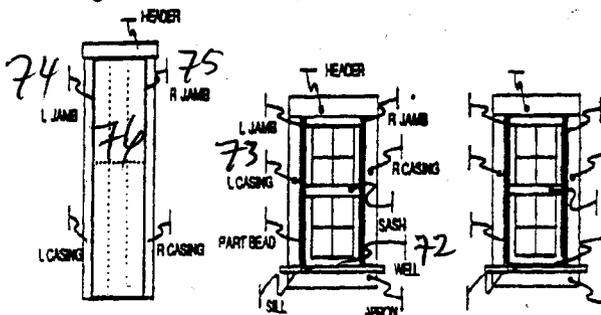
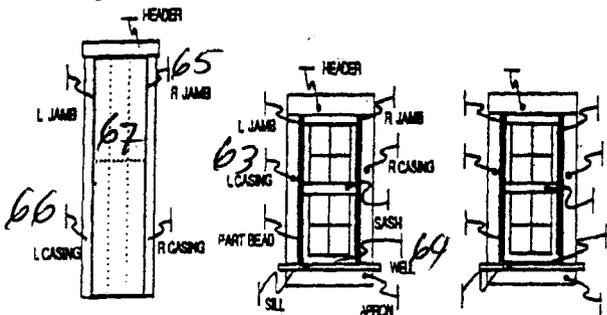


COMMENTS: Walls A and C are of smooth trowled-on cement over concrete blocks substrate and of off white finish. The door is of shea-lac wooden substrate, and the door jamb and components is of dark Butter scotch over metal substrate. The windows well is of Butter scotch finished over wooden substrate. The windows are of a Black metal frame.

COMMENTS: Walls A & C are of smooth trowled-on cement over concrete blocks substrate and off white finish. The door is of shea-lac wooden substrate and the door jamb is of dark Butter scotch metal substrate. The windows well is of dark Butter scotch wooden substrate and the window is of Black metal framed substrate.

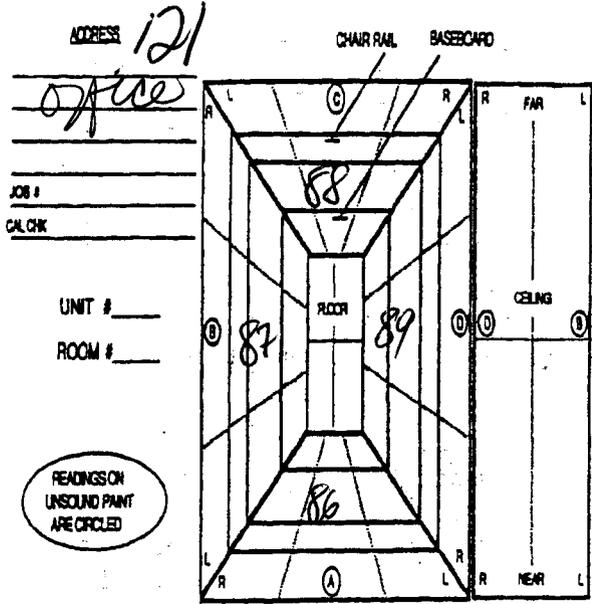
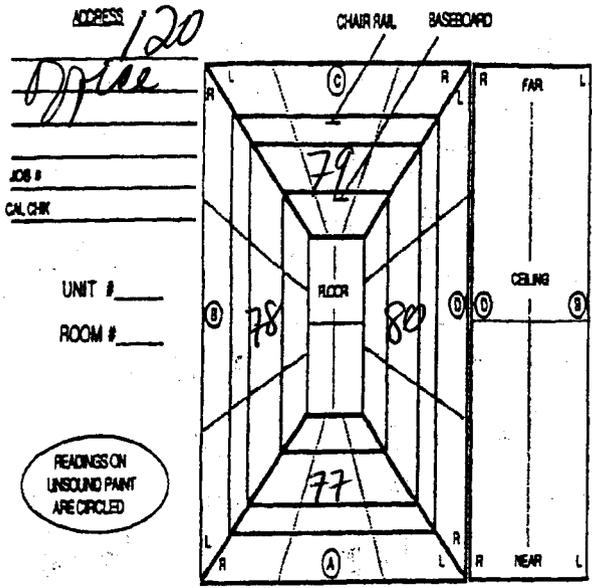


WALL A B C D
LEFT
RIGHT
CENTER



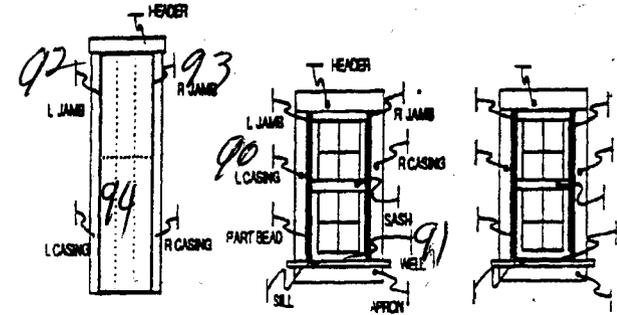
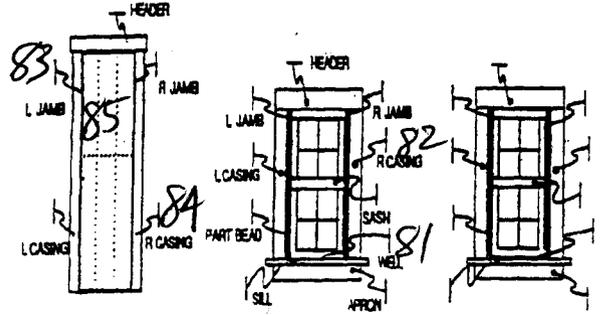
COMMENTS: Walls A and C are of smooth trowled-on cement over concrete blocks substrate and of off white finish. The door is of shea-lac wooden substrate and the door jamb and components is of Dek Butter scotch over metal substrate. The windows well is of Butter scotch finished over wooden substrate. The windows of a Black metal frame. The door jambs and casing revealed LEAD the paint is in fair condition

COMMENTS: Walls A & C are of smooth trowled-on cement over concrete blocks substrate and off white finish. The door is of shea-lac wooden substrate and the door jamb is of Dek Butter scotch metal substrate. The windows well is of Dek Butter scotch wooden substrate and the window is of Black metal framed substrate.



- | | | |
|---------------------------------|---------------------------------|---------------------------------|
| WALL A B C D | WALL A B C D | WALL A B C D |
| LEFT <input type="checkbox"/> | LEFT <input type="checkbox"/> | LEFT <input type="checkbox"/> |
| RIGHT <input type="checkbox"/> | RIGHT <input type="checkbox"/> | RIGHT <input type="checkbox"/> |
| CENTER <input type="checkbox"/> | CENTER <input type="checkbox"/> | CENTER <input type="checkbox"/> |

- | | | |
|---------------------------------|---------------------------------|---------------------------------|
| WALL A B C D | WALL A B C D | WALL A B C D |
| LEFT <input type="checkbox"/> | LEFT <input type="checkbox"/> | LEFT <input type="checkbox"/> |
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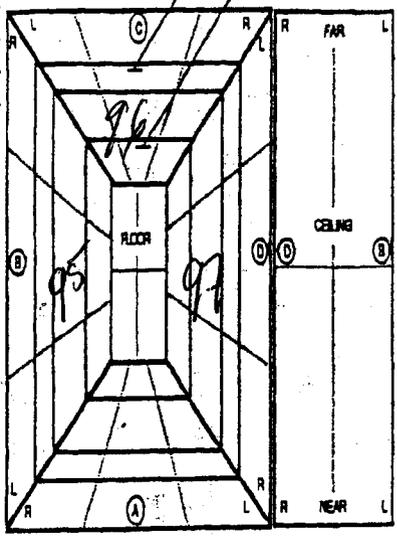


COMMENTS: Walls A and C are of smooth trowled-on cement over concrete blocks substrate and of off white finish. The door is of shea-lac wooden substrate, and the door jamb and components is of Dek Butter scotch over metal substrate. The windows well is of Butter scotch finish over wooden substrate. The windows are of a Black metal frame.

COMMENTS: Walls A & C are of smooth trowled-on cement over concrete blocks substrate and off white finish. The door is of shea-lac wooden substrate and the door jamb is of Dek Butter scotch metal substrate. The windows well is of Dek Butter scotch wooden substrate and the window is of Black metal framed substrate.

ADDRESS _____
 JOB # _____
 CALC # _____

CHAIR RAIL BASEBOARD

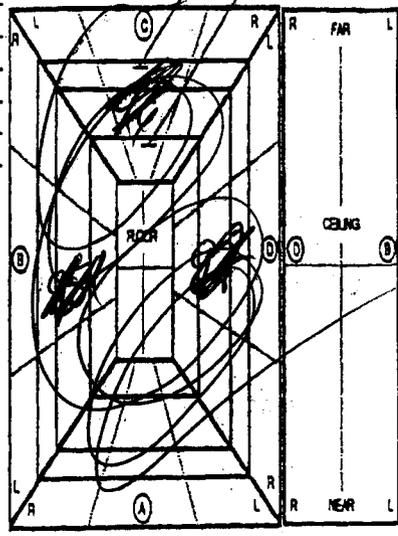


UNIT # _____
 ROOM # _____

READINGS ON UNSOUND PAINT ARE CIRCLED

ADDRESS _____
 JOB # _____
 CALC # _____

CHAIR RAIL BASEBOARD



UNIT # _____
 ROOM # _____

READINGS ON UNSOUND PAINT ARE CIRCLED

- WALL A B C D
 LEFT
 RIGHT
 CENTER

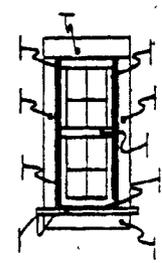
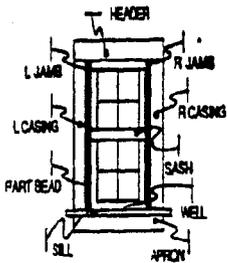
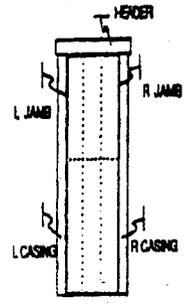
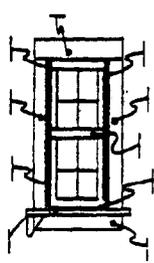
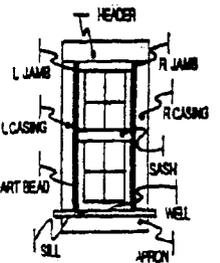
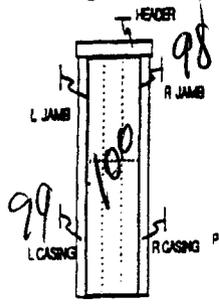
- WALL A B C D
 LEFT
 RIGHT
 CENTER

- WALL A B C D
 LEFT
 RIGHT
 CENTER

- WALL A B C D
 LEFT
 RIGHT
 CENTER

- WALL A B C D
 LEFT
 RIGHT
 CENTER

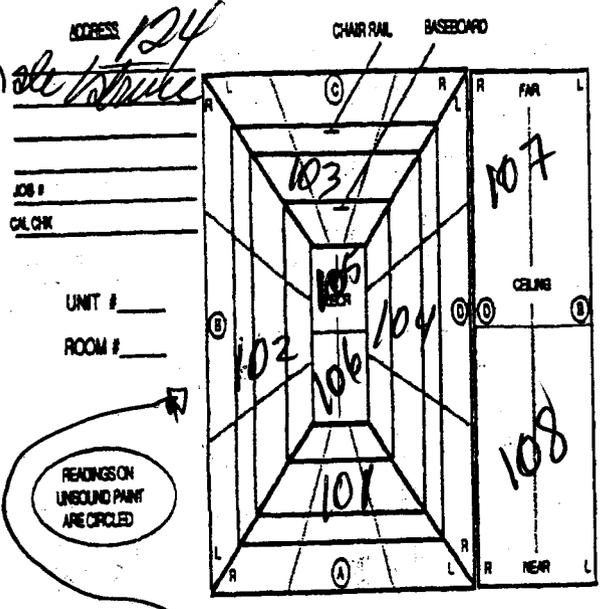
- WALL A B C D
 LEFT
 RIGHT
 CENTER



COMMENTS: Walls A B C D are of smooth finished - on concrete blocks, substrate and of off white finish. The door is of shea-lac wooden substrate, and the door jamb and components is of dark Butter scotch over metal substrate. The windows well is of Butter scotch finished over wooden substrate. The windows are of a black metal frame.

COMMENTS: Walls A B C are of smooth finished on cement over concrete blocks substrate and of off white finish. The door is of shea-lac wooden substrate and the door jamb and components is of dark Butter scotch over metal substrate. The windows well is of dark Butter scotch finished over wooden substrate and the window is of black metal framed substrate.

Female ¹²⁴ ~~123~~



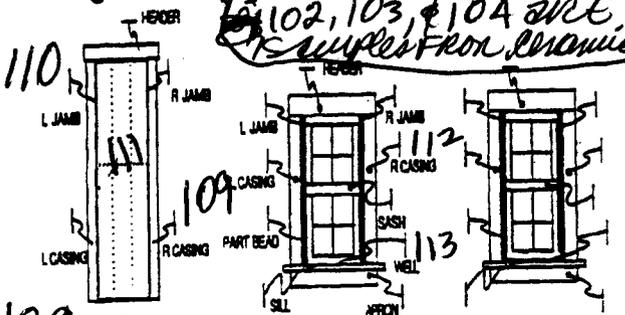
WALL A B C D

LEFT

RIGHT

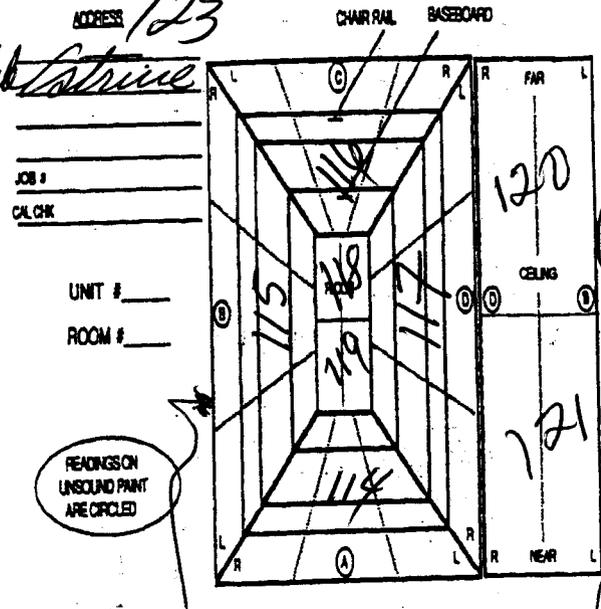
CENTER

102, 103, & 104 are taken from ceramic



110, & 109 are from door frame or jamb. The paint is in good cond. COMMENTS: All walls are of trowel-on plastered and of white finish. The ceiling is of trowel-on plaster of white finish. The floor is of ceramic tiles, and 1/2 of the wall also has ceramic tile. The windows sash & well is of Dek scotch finish on wooden substrate. The window is of Dek Brown metal substrate. The door is of spec-luc wooden substrate & the jamb is of extruded metal.

Male ¹²³ ~~124~~

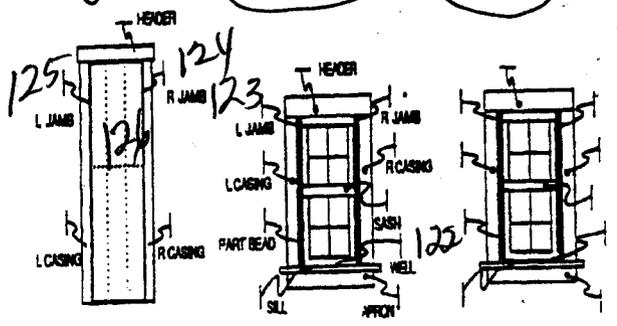


WALL A B C D

LEFT

RIGHT

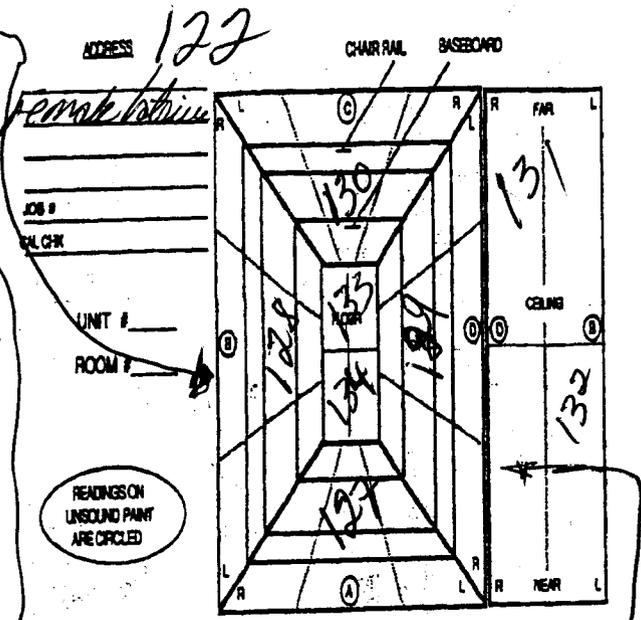
CENTER



COMMENTS: All wall are 1/2 ceramic tile and 1/2 trowel-on plaster. As used as the ceiling which is of trowel-on plaster of white. The windows sash & well is of Dek. But the scotch on wooden substrate, and the window casing is of Dek. Brown metal substrate. The Door is of A-She-A-Loc wooden substrate, and the jamb is of Dek. Better scotch metal substrate.

Sample 114 is taken from the trowel-on plaster. 116 & 117 is taken from the blue ceramic tiles on walls

Sample 130 is over trowl-on plaster on masonry walls

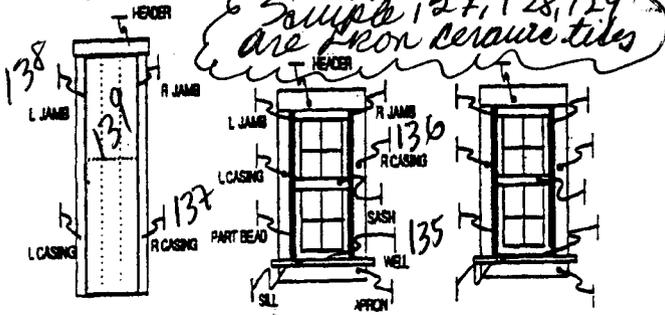


WALL A B C D

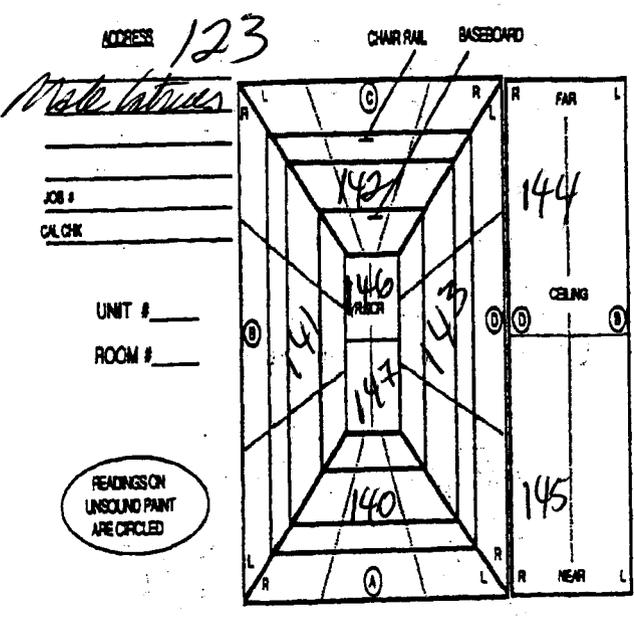
LEFT

RIGHT

CENTER



COMMENTS: All walls are of trowl-on plaster and of off white finish. The ceiling is of trowl-on plaster of off white finish. The floor is of ceramic tiles, and 1/2 of the wall also has ceramic tile. The windows sash & well is Dek scotch finish on wooden substrate. The window is of Dek Brown metal substrate. The door is of spec-luc

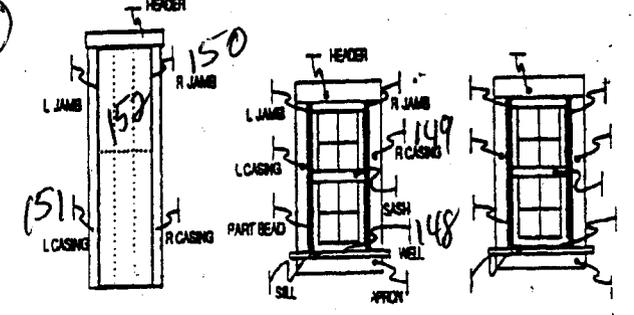


WALL A B C D

LEFT

RIGHT

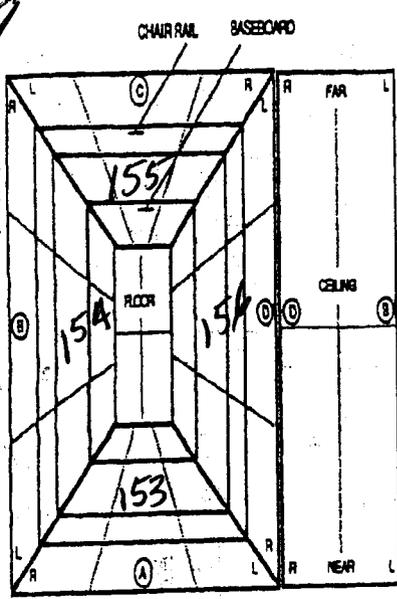
CENTER



COMMENTS: All wall are 1/2 ceramic tile and 1/2 trowl-on plaster. As also as the ceiling which is of trowl-on plaster of off white. The windows sash & well is of Dek. Butcher scotch on wooden substrate, and the window casing is of Dek. Brown metal substrate. The Door is of A-Spe-A Coe wooden substrate, and the jamb is of Dek. Butcher scotch metal substrate.

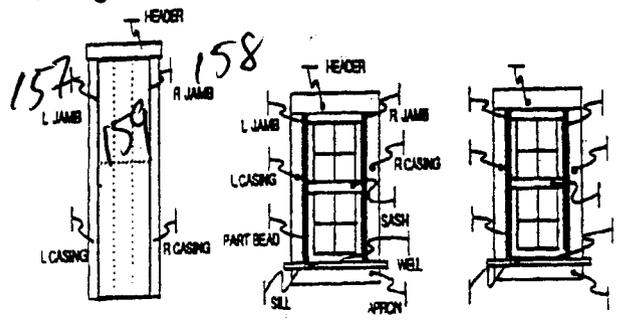
ADDRESS 129
Drill Hall

JOB # _____
 CAL CHK _____
 UNIT # _____
 ROOM # _____



READINGS ON UNSOUND PAINT ARE CIRCLED

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

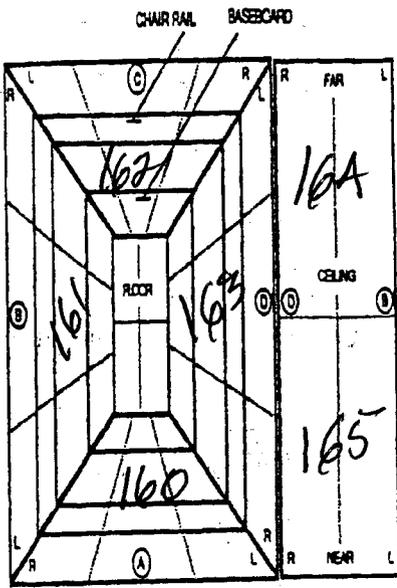


COMMENTS: Walls A B C D are of smooth ~~triple~~ concrete blocks substrate and of off white finish. The door is of shea-lac wooden substrate, and the door jamb and components is of DRK Butter scotch over metal substrate. The windows well is of Butter scotch finished over wooden substrate. The windows are a Black metal frame.

The garage Door is of unfinished metal substrate. See Exterior sheet for yellow safety poles.

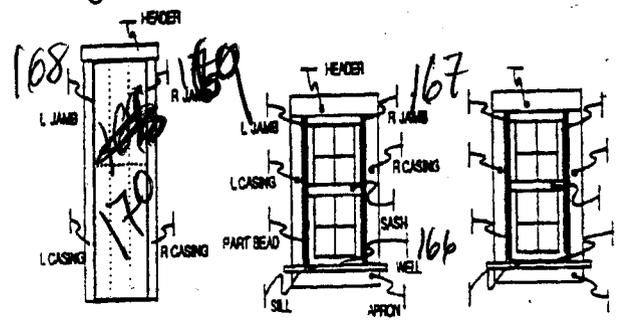
ADDRESS _____
Kitchen
128
 JOB # _____
 CAL CHK _____

UNIT # _____
 ROOM # _____

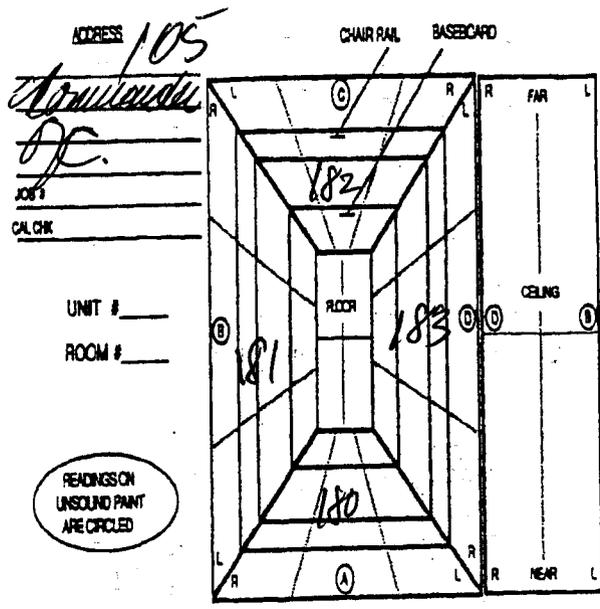
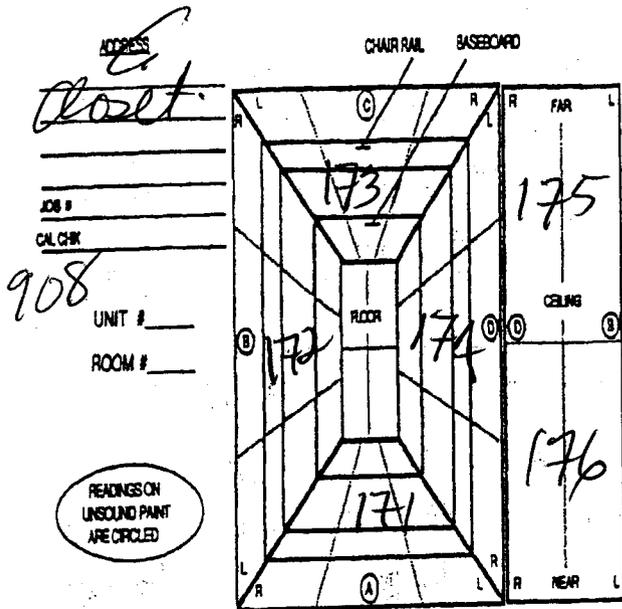


READINGS ON UNSOUND PAINT ARE CIRCLED

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

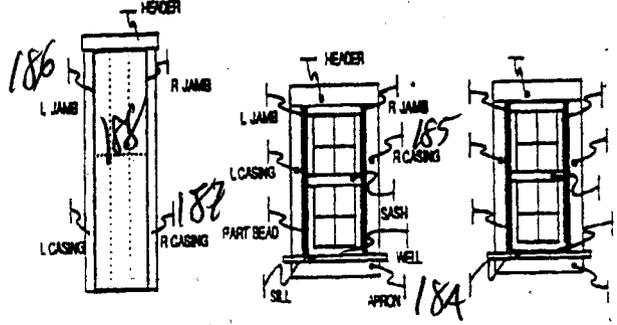
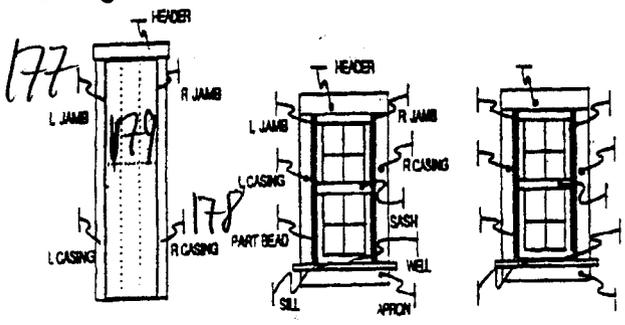


COMMENTS: Walls A B C D are of smooth ~~triple~~ concrete blocks substrate and off white finish. The door is of shea-lac wooden substrate and the door jamb is of DRK Butter scotch metal substrate. The windows well is of DRK Butter scotch wooden substrate and the window is of Black metal framed substrate.



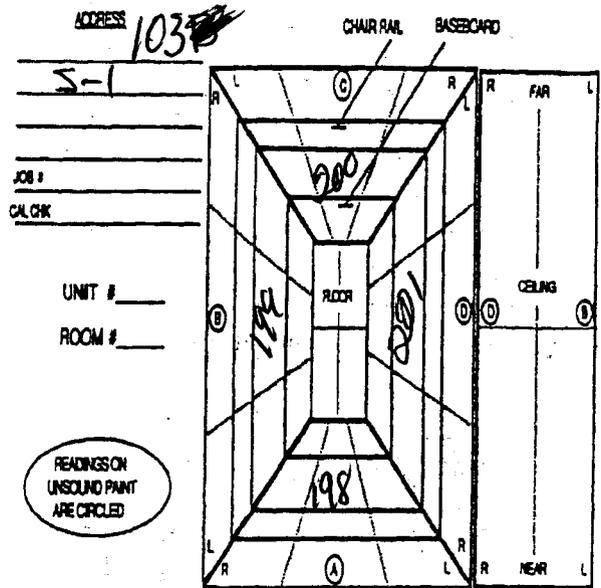
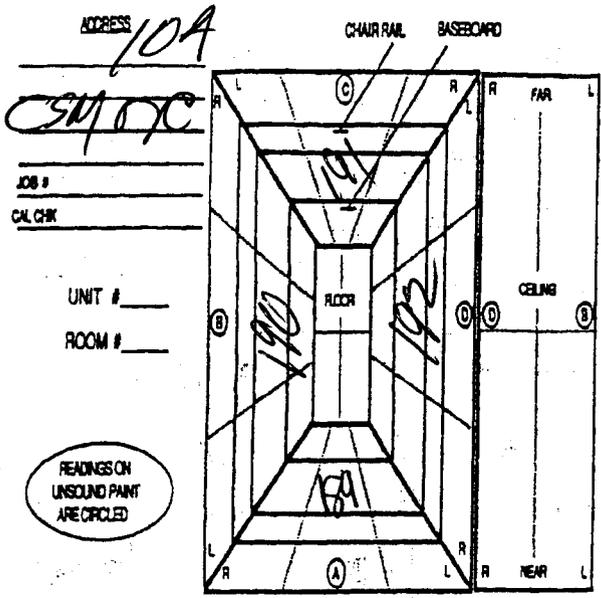
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| RIGHT <input type="checkbox"/> | RIGHT <input type="checkbox"/> | RIGHT <input type="checkbox"/> |
| CENTER <input type="checkbox"/> | CENTER <input type="checkbox"/> | CENTER <input type="checkbox"/> |

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|---------------------------------|---------------------------------|---------------------------------|
| WALL A B C D | WALL A B C D | WALL A B C D |
| LEFT <input type="checkbox"/> | LEFT <input type="checkbox"/> | LEFT <input type="checkbox"/> |
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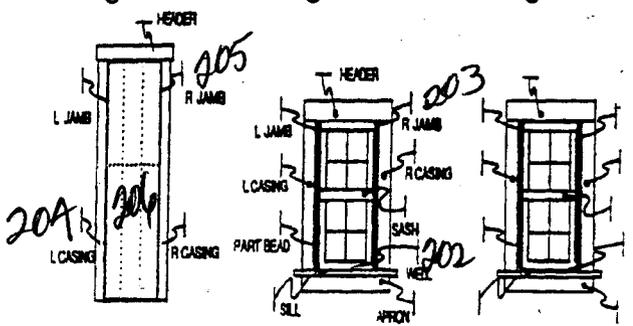
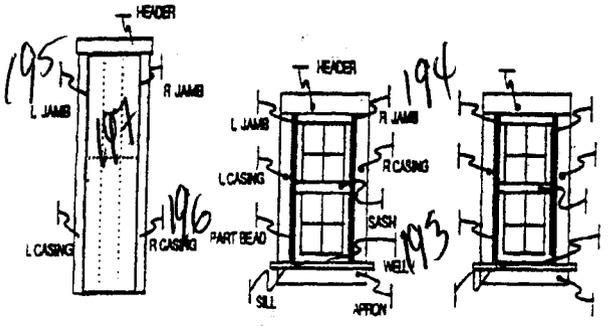
COMMENTS: Walls A and C are of smooth trowled-on cement over concrete blocks substrate and of off white finish. The door is of shea-lac wooden substrate, and the door jamb and components is of dark Butter scotch over metal substrate. The windows well is of Butter scotch finished over wooden substrate. The windows are of a Black metal frame.

COMMENTS: Walls A & C are of smooth trowled-on cement over concrete blocks substrate and off white finish. The door is of shea-lac wooden substrate and the door jamb is of dark Butter scotch metal substrate. The windows well is of dark Butter scotch wooden substrate and the window is of Black metal framed substrate.



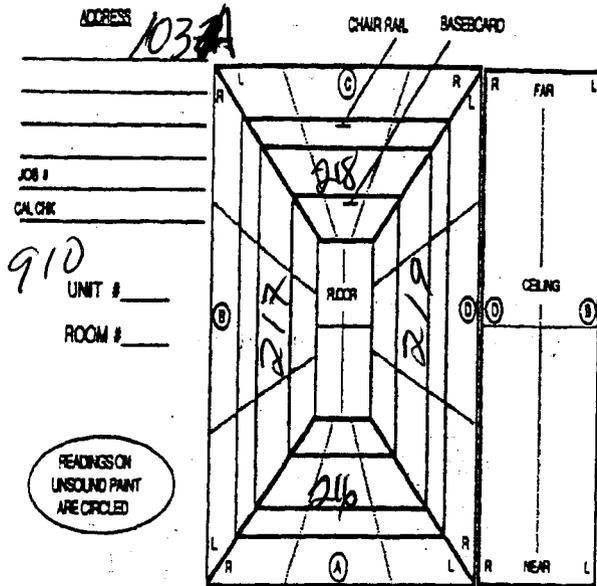
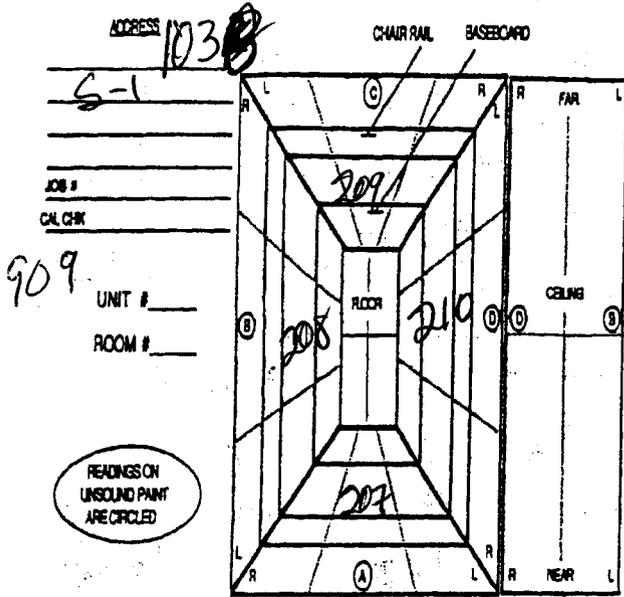
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|------------------------------|------------------------------|------------------------------|
| WALL A B C D | WALL A B C D | WALL A B C D |
| LEFT <input type="radio"/> | LEFT <input type="radio"/> | LEFT <input type="radio"/> |
| RIGHT <input type="radio"/> | RIGHT <input type="radio"/> | RIGHT <input type="radio"/> |
| CENTER <input type="radio"/> | CENTER <input type="radio"/> | CENTER <input type="radio"/> |

- | | | |
|------------------------------|------------------------------|------------------------------|
| WALL A B C D | WALL A B C D | WALL A B C D |
| LEFT <input type="radio"/> | LEFT <input type="radio"/> | LEFT <input type="radio"/> |
| RIGHT <input type="radio"/> | RIGHT <input type="radio"/> | RIGHT <input type="radio"/> |
| CENTER <input type="radio"/> | CENTER <input type="radio"/> | CENTER <input type="radio"/> |



COMMENTS: Walls A and C are of smooth trowled - on cement over concrete blocks substrate and of off white finish. The door is of shea-lac wooden substrate, and the door jamb and components is of Dek Butter scotch over metal substrate. The windows well is of Butter scotch finished over wooden substrate. The windows are of a Black metal frame.

COMMENTS: Walls A & C are of smooth trowled on cement over concrete blocks substrate and off white finish. The door is of shea-lac wooden substrate and the door jamb is of Dek Butter scotch metal substrate. The windows well is of Dek Butter scotch wooden substrate and the window is of Black metal framed substrate.

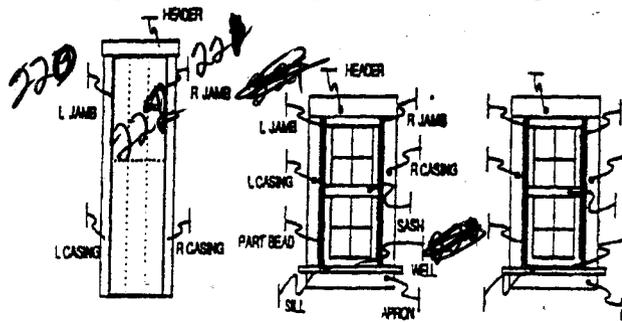
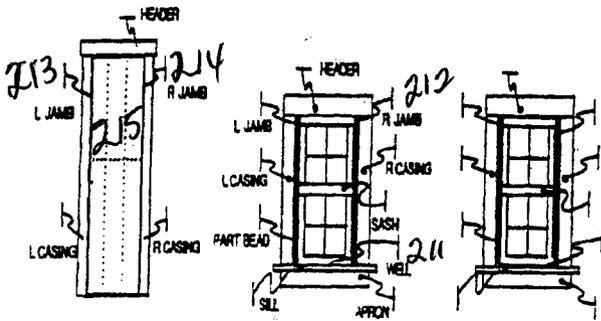


WALL A B C D

LEFT

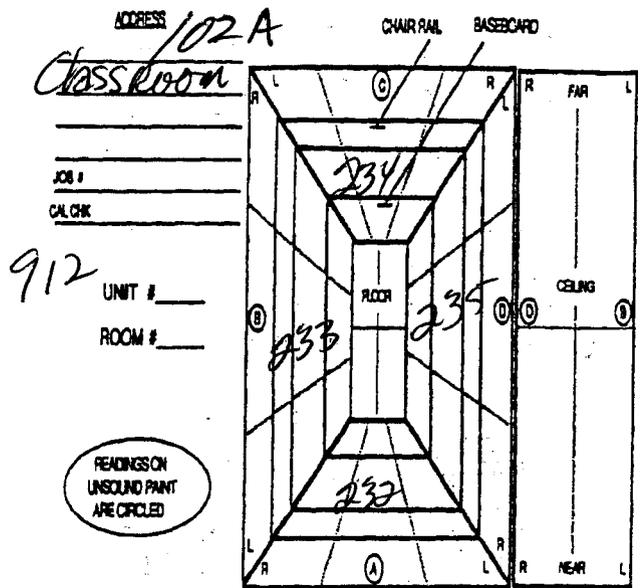
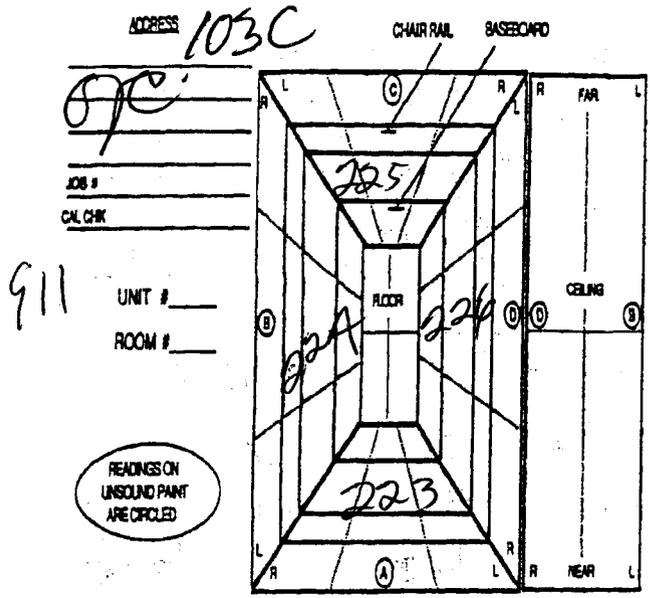
RIGHT

CENTER



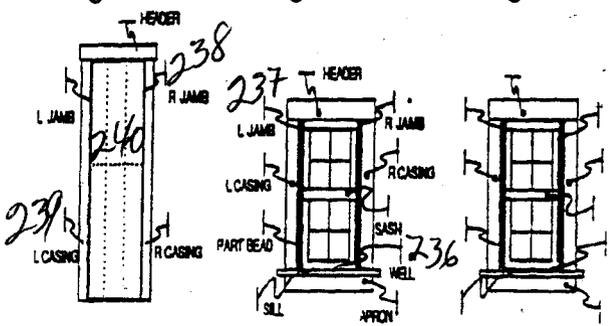
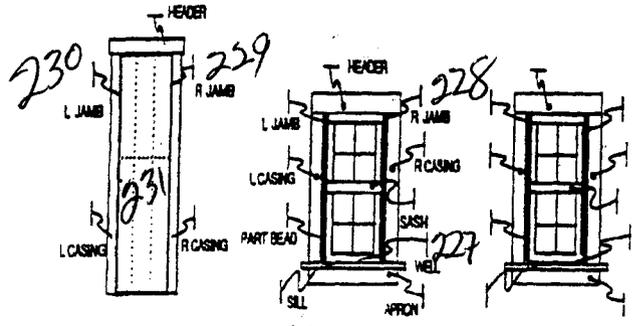
COMMENTS: Walls A and C are of smooth trowled-on cement over concrete blocks substrate and of off white finish. The door is of shea-lac wooden substrate, and the door jamb and components is of Dek Butter scotch over metal substrate. The windows well is of Butter scotch finish over wooden substrate. The windows are of a Black metal frame.

COMMENTS: Walls A & C are of smooth trowled on cement over concrete blocks substrate and off white finish. The door is of shea-lac wooden substrate and the door jamb is of Dek Butter scotch metal substrate. ~~The windows well is of Dek Butter scotch finish over wooden substrate and the window is of Black metal framed substrate.~~



- | | | |
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| WALL A B C D | WALL A B C D | WALL A B C D |
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| RIGHT <input type="checkbox"/> | RIGHT <input type="checkbox"/> | RIGHT <input type="checkbox"/> |
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| WALL A B C D | WALL A B C D | WALL A B C D |
| LEFT <input type="checkbox"/> | LEFT <input type="checkbox"/> | LEFT <input type="checkbox"/> |
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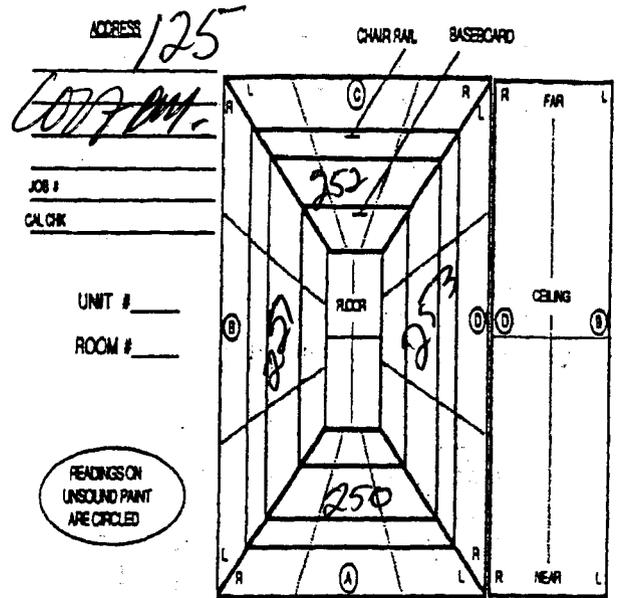
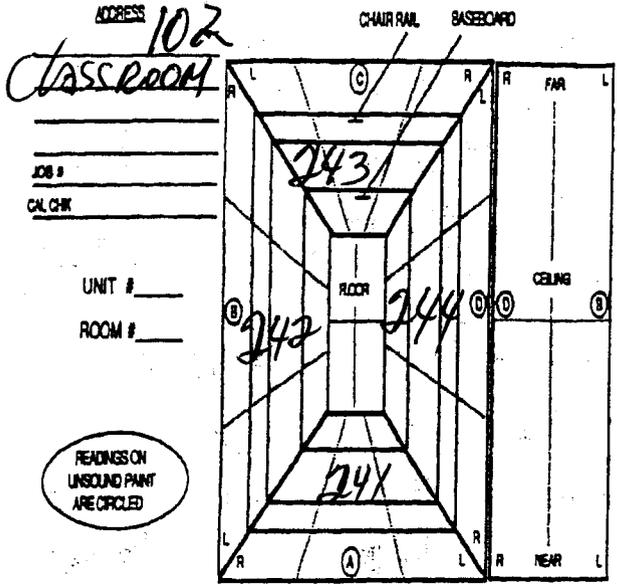


COMMENTS: Walls A and C are of smooth trowled-on cement over concrete blocks substrate and of off white finish. The door is of shea-lac wooden substrate, and the door jamb and components is of Dek Butter scotch over metal substrate. The windows well is of Butter scotch finished over wooden substrate. The windows are of a Black metal frame.

~~THE DOOR IS IN FAIR TO GOOD CONDITION AND THE WINDOW FRAME IS IN FAIR TO GOOD CONDITION.~~

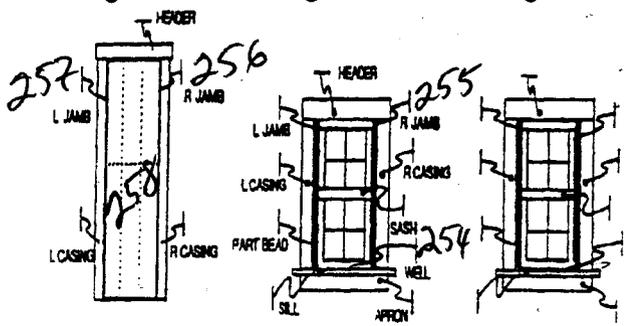
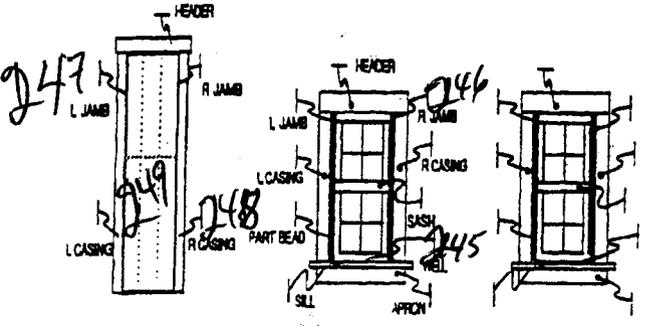
COMMENTS: WALLS A & C ARE OF SMOOTH TROWLED-ON CEMENT OVER CONCRETE BLOCKS SUBSTRATE AND OFF WHITE FINISH. THE DOOR IS OF SHE-LAC wooden substrate and the door jamb is of Dek Butter scotch metal substrate. THE WINDOWS WELL IS OF DEK BUTTER SCOTCH WOODEN SUBSTRATE AND THE WINDOW IS OF BLACK METAL FRAMED SUBSTRATE.

THE DOOR IS IN FAIR TO GOOD CONDITION. THIS DOOR REVEALS LEAD CONTENT.



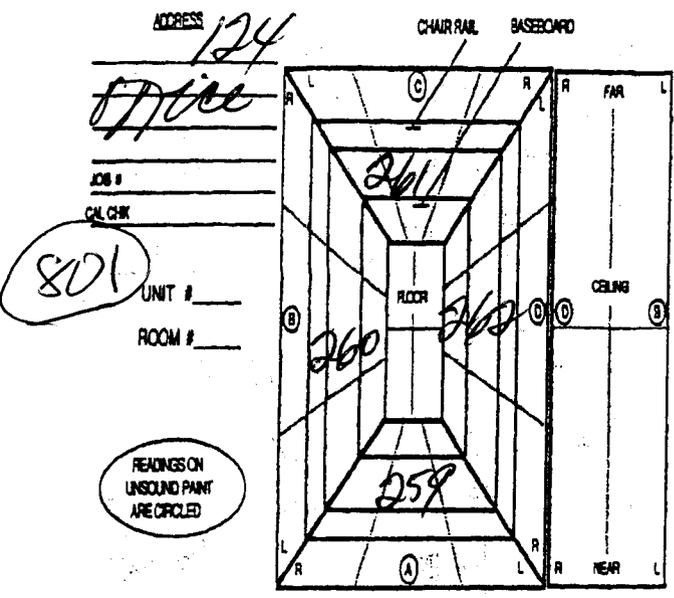
- | | | |
|---------------------------------|---------------------------------|---------------------------------|
| WALL A B C D | WALL A B C D | WALL A B C D |
| LEFT <input type="checkbox"/> | LEFT <input type="checkbox"/> | LEFT <input type="checkbox"/> |
| RIGHT <input type="checkbox"/> | RIGHT <input type="checkbox"/> | RIGHT <input type="checkbox"/> |
| CENTER <input type="checkbox"/> | CENTER <input type="checkbox"/> | CENTER <input type="checkbox"/> |

- | | | |
|---------------------------------|---------------------------------|---------------------------------|
| WALL A B C D | WALL A B C D | WALL A B C D |
| LEFT <input type="checkbox"/> | LEFT <input type="checkbox"/> | LEFT <input type="checkbox"/> |
| RIGHT <input type="checkbox"/> | RIGHT <input type="checkbox"/> | RIGHT <input type="checkbox"/> |
| CENTER <input type="checkbox"/> | CENTER <input type="checkbox"/> | CENTER <input type="checkbox"/> |



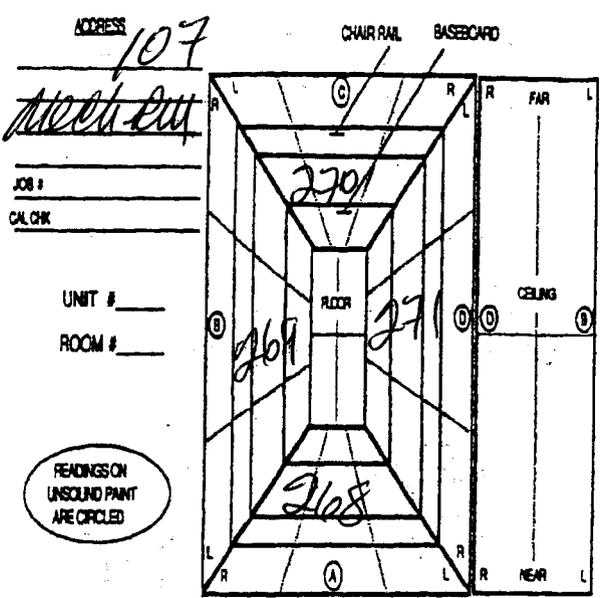
COMMENTS: Walls A and C are of smooth trowled-on cement over concrete blocks, substrate and of off white finish. The door is of ~~metal~~ wooden substrate, and the door jamb and components is of Dek Butter scotch over metal substrate. The windows well is of Butter scotch finished over wooden substrate. The windows are of a Black metal frame.

COMMENTS: Walls A B C are of ~~smooth trowled-on cement over concrete blocks, substrate and of off white finish.~~ The door is of SHE-A-LAC wooden substrate and the door jamb is of Dek Butter scotch metal substrate. The windows well is of Dek Butter scotch wooden substrate and the window is of Black metal framed substrate. The door is of SHE-A-LAC wooden substrate.



801

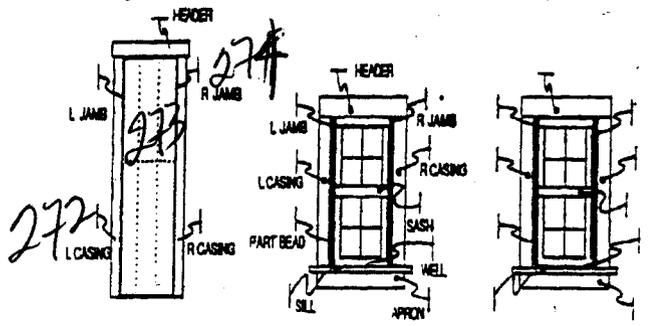
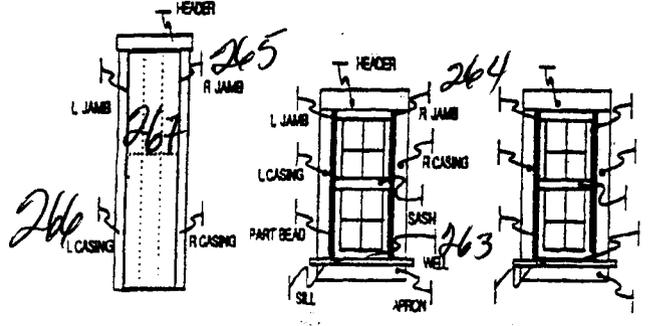
READINGS ON UNSOUND PAINT ARE CIRCLED



READINGS ON UNSOUND PAINT ARE CIRCLED

- | | | |
|---------------------------------|---------------------------------|---------------------------------|
| WALL A B C D | WALL A B C D | WALL A B C D |
| LEFT <input type="checkbox"/> | LEFT <input type="checkbox"/> | LEFT <input type="checkbox"/> |
| RIGHT <input type="checkbox"/> | RIGHT <input type="checkbox"/> | RIGHT <input type="checkbox"/> |
| CENTER <input type="checkbox"/> | CENTER <input type="checkbox"/> | CENTER <input type="checkbox"/> |

- | | | |
|---------------------------------|---------------------------------|---------------------------------|
| WALL A B C D | WALL A B C D | WALL A B C D |
| LEFT <input type="checkbox"/> | LEFT <input type="checkbox"/> | LEFT <input type="checkbox"/> |
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| CENTER <input type="checkbox"/> | CENTER <input type="checkbox"/> | CENTER <input type="checkbox"/> |



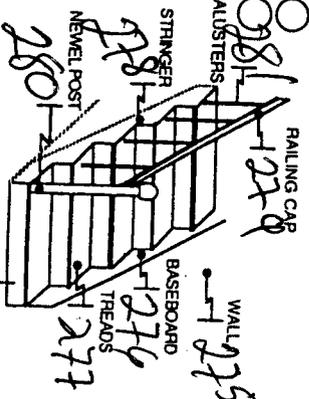
COMMENTS: Walls A and C are of smooth trowled - on cement over concrete blocks substrate and of off white finish. The door is of shea-lac wooden substrate, and the door jamb and components is of Dark Butter scotch over metal substrate. The windows well is of Butter scotch finished over wooden substrate. The windows are of a Black metal frame.

COMMENTS: Walls A & C are of smooth trowled on cement over concrete blocks substrate and off white finish. The door is of ~~shea-lac~~ Black metal substrate and the door jamb is of Dark Butter scotch metal substrate. The windows well is of Dark Butter scotch wooden substrate and the window is of Black metal framed substrate.

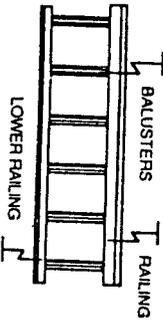
JOB # *107* *Meal Room* *Watergarden II*

JOB #

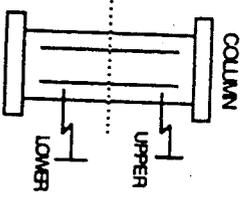
EXTERIOR (OR)
 ROOM #
 WALL (A) (B) (C) (D)
 LEFT ○
 RIGHT ○
 CENTER ○



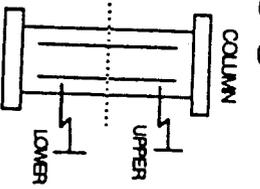
EXTERIOR (OR)
 ROOM #
 WALL (A) (B) (C) (D)
 LEFT ○
 RIGHT ○
 CENTER ○



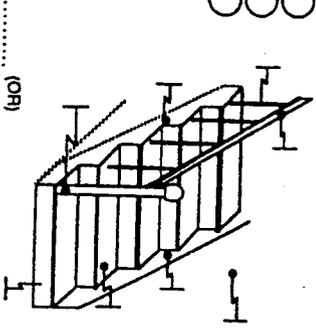
EXTERIOR (OR)
 ROOM #
 WALL (A) (B) (C) (D)
 LEFT ○
 RIGHT ○
 CENTER ○



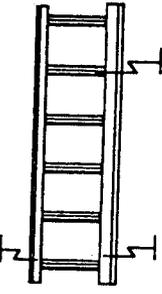
EXTERIOR (OR)
 ROOM #
 WALL (A) (B) (C) (D)
 LEFT ○
 RIGHT ○
 CENTER ○



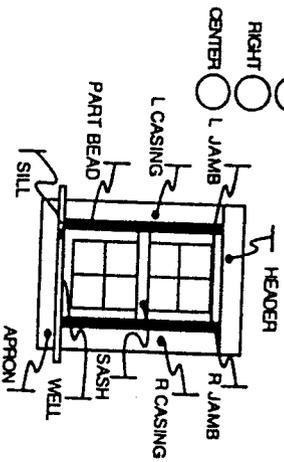
EXTERIOR (OR)
 ROOM #
 WALL (A) (B) (C) (D)
 LEFT ○
 RIGHT ○
 CENTER ○



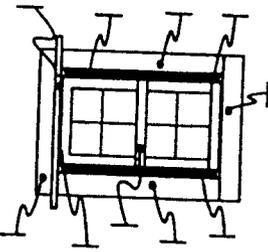
EXTERIOR (OR)
 ROOM #
 WALL (A) (B) (C) (D)
 LEFT ○
 RIGHT ○
 CENTER ○



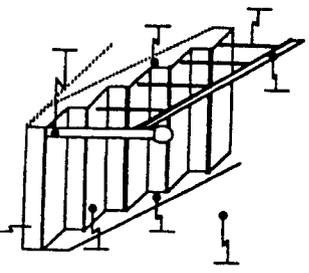
EXTERIOR (OR)
 ROOM #
 WALL (A) (B) (C) (D)
 LEFT ○
 RIGHT ○
 CENTER ○



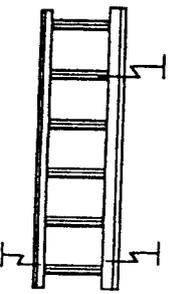
EXTERIOR (OR)
 ROOM #
 WALL (A) (B) (C) (D)
 LEFT ○
 RIGHT ○
 CENTER ○



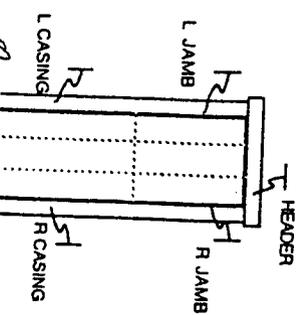
EXTERIOR (OR)
 ROOM #
 WALL (A) (B) (C) (D)
 LEFT ○
 RIGHT ○
 CENTER ○



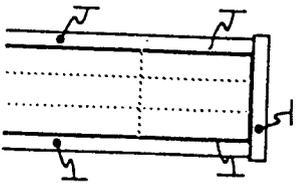
EXTERIOR (OR)
 ROOM #
 WALL (A) (B) (C) (D)
 LEFT ○
 RIGHT ○
 CENTER ○



EXTERIOR (OR)
 ROOM #
 WALL (A) (B) (C) (D)
 LEFT ○
 RIGHT ○
 CENTER ○



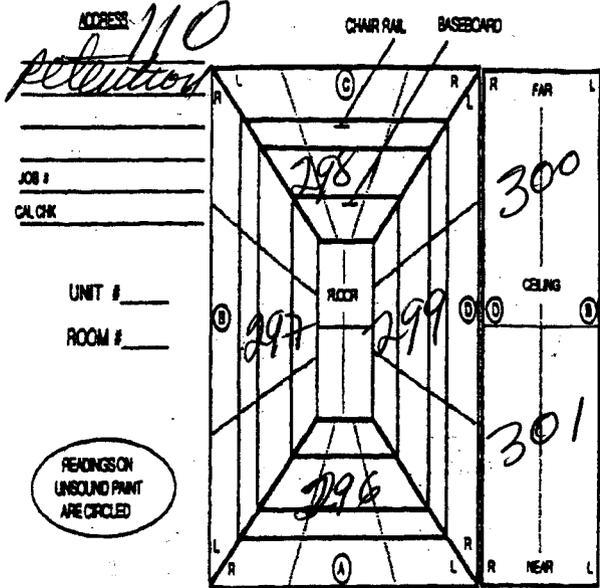
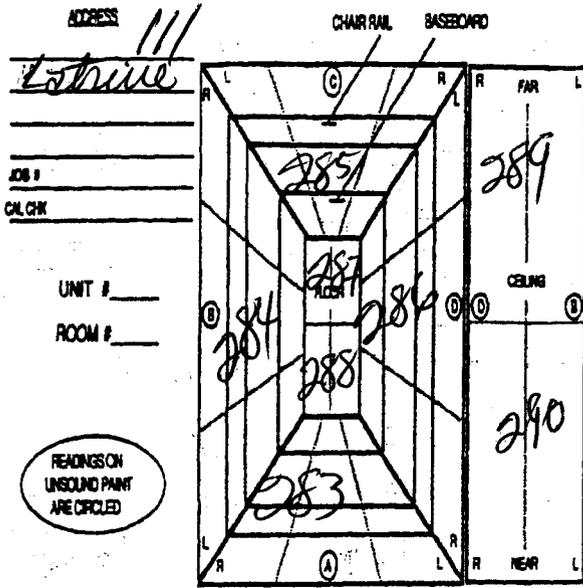
EXTERIOR (OR)
 ROOM #
 WALL (A) (B) (C) (D)
 LEFT ○
 RIGHT ○
 CENTER ○



Interior ONLY

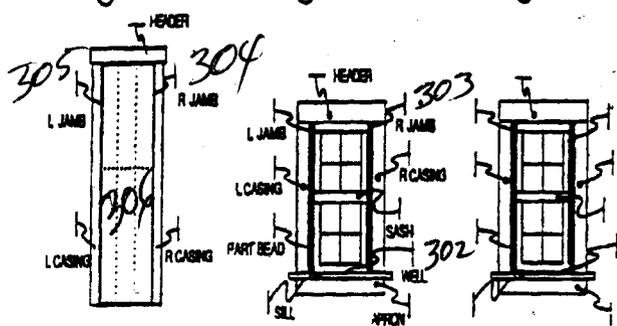
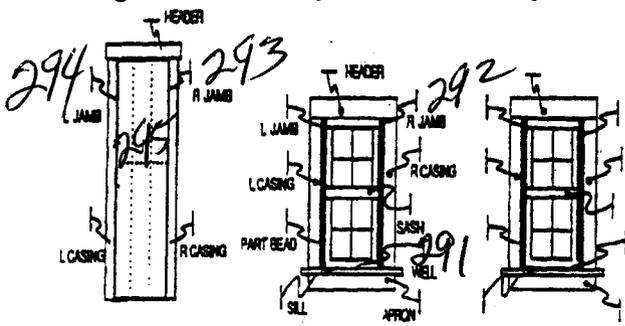
COMMENTS: *The Stairs to the Meal Room is a gray metal on metal sub frame.*

Interior ONLY



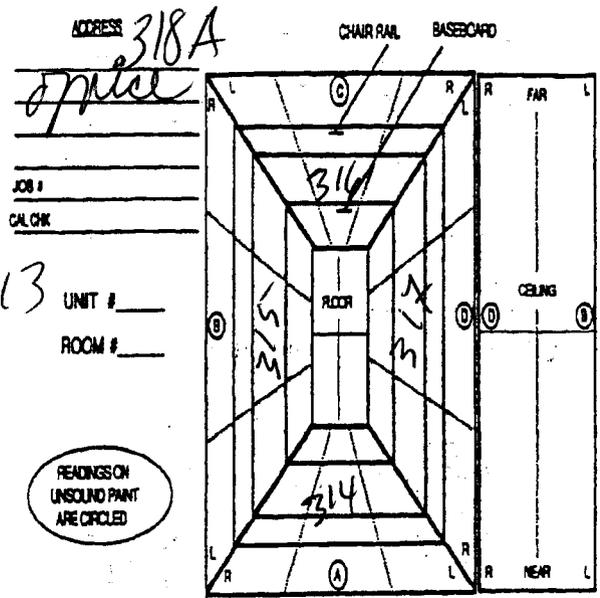
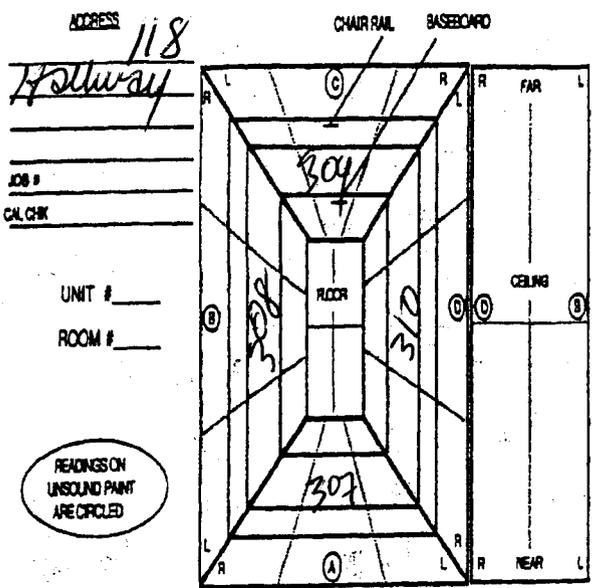
- | | | |
|------------------------------|------------------------------|------------------------------|
| WALL A B C D | WALL A B C D | WALL A B C D |
| LEFT <input type="radio"/> | LEFT <input type="radio"/> | LEFT <input type="radio"/> |
| RIGHT <input type="radio"/> | RIGHT <input type="radio"/> | RIGHT <input type="radio"/> |
| CENTER <input type="radio"/> | CENTER <input type="radio"/> | CENTER <input type="radio"/> |

- | | | |
|------------------------------|------------------------------|------------------------------|
| WALL A B C D | WALL A B C D | WALL A B C D |
| LEFT <input type="radio"/> | LEFT <input type="radio"/> | LEFT <input type="radio"/> |
| RIGHT <input type="radio"/> | RIGHT <input type="radio"/> | RIGHT <input type="radio"/> |
| CENTER <input type="radio"/> | CENTER <input type="radio"/> | CENTER <input type="radio"/> |



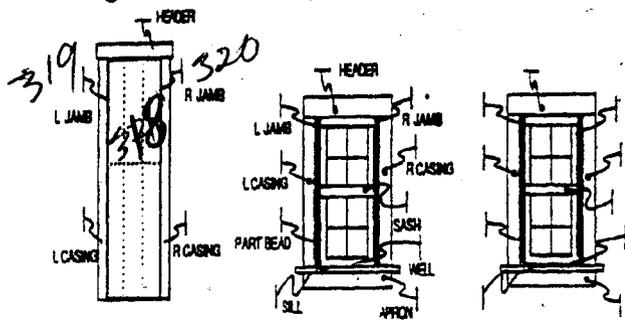
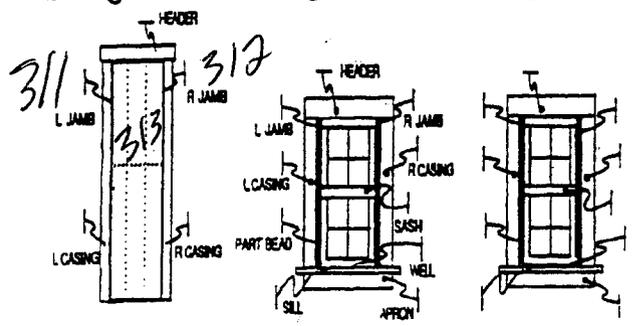
COMMENTS: All walls are 1/2 Ceramic tiles, and 1/2 troweled-on plaster. The door is of ceramic tiles. The ceiling is troweled on plaster of white. The door is of She-A-Lac wooden substrate, and the door panel is of Butler Scotch metal substrate.

COMMENTS: All walls are of 17 white concrete blocks substrate. The ceiling is of troweled-on plaster of white substrate. The window is a Dark Brown metal framed. The window used is of Butler Scotch wooden substrate. The door is of wooden She-A-Lac finish and the door panel is of Butler Scotch metal substrate.



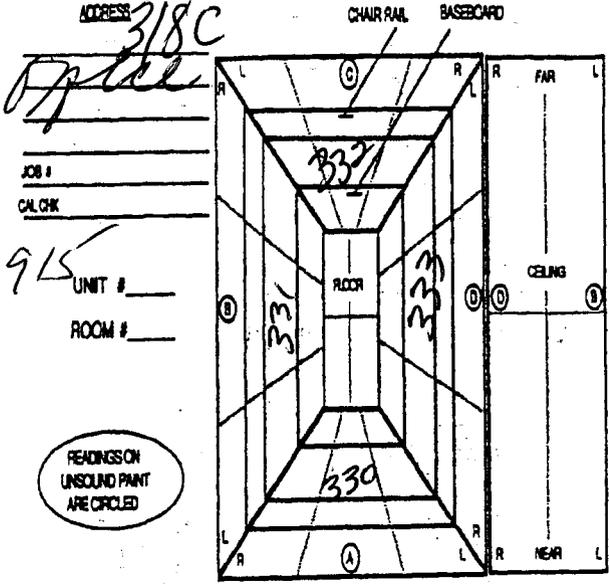
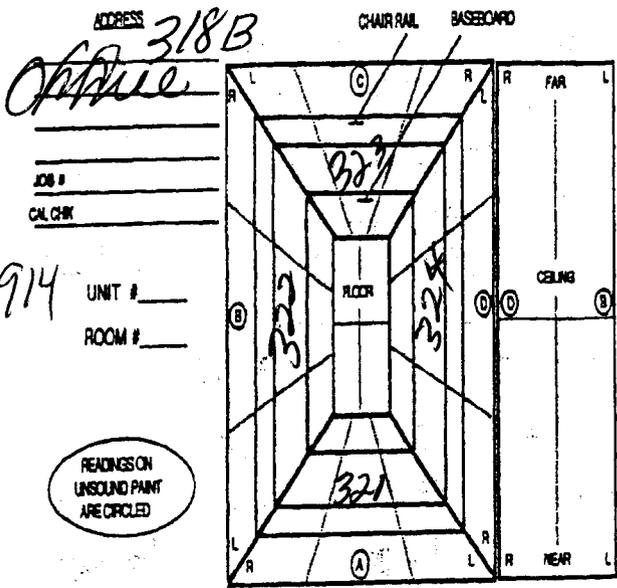
- | | | |
|---------------------------------|---------------------------------|---------------------------------|
| WALL (A) (B) (C) (D) | WALL (A) (B) (C) (D) | WALL (A) (B) (C) (D) |
| LEFT <input type="checkbox"/> | LEFT <input type="checkbox"/> | LEFT <input type="checkbox"/> |
| RIGHT <input type="checkbox"/> | RIGHT <input type="checkbox"/> | RIGHT <input type="checkbox"/> |
| CENTER <input type="checkbox"/> | CENTER <input type="checkbox"/> | CENTER <input type="checkbox"/> |

- | | | |
|---------------------------------|---------------------------------|---------------------------------|
| WALL (A) (B) (C) (D) | WALL (A) (B) (C) (D) | WALL (A) (B) (C) (D) |
| LEFT <input type="checkbox"/> | LEFT <input type="checkbox"/> | LEFT <input type="checkbox"/> |
| RIGHT <input type="checkbox"/> | RIGHT <input type="checkbox"/> | RIGHT <input type="checkbox"/> |
| CENTER <input type="checkbox"/> | CENTER <input type="checkbox"/> | CENTER <input type="checkbox"/> |



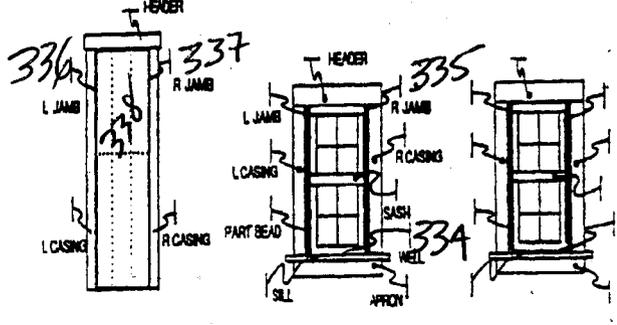
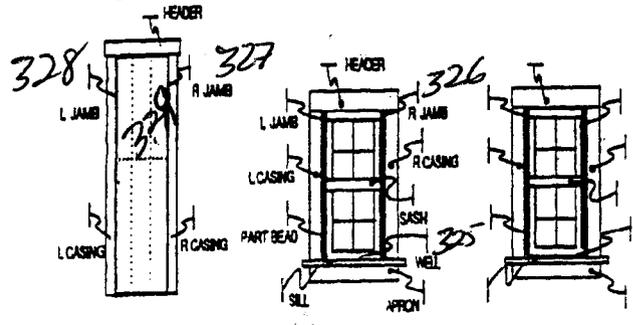
COMMENTS: Walls A, B, C, D are of ~~sheet rock~~ smooth troweled or cement over concrete substrate and of off white finish. The door is of shea-lac wooden substrate, and the door jamb and components is of Dek Butter scotch over metal substrate. The windows are of ~~Butter scotch~~ wooden substrate and the window is of ~~black metal frame~~ black metal frame

COMMENTS: Walls A, B, C, D are of smooth troweled or cement over concrete black substrate and off white finish. The door is of shea-lac wooden substrate and the door jamb is of shea-lac wooden substrate. The windows are of ~~Butter scotch~~ wooden substrate and the window is of ~~black metal frame~~ black metal frame framed substrate. Walls B, C, D are of sheet rock off white finish substrate.



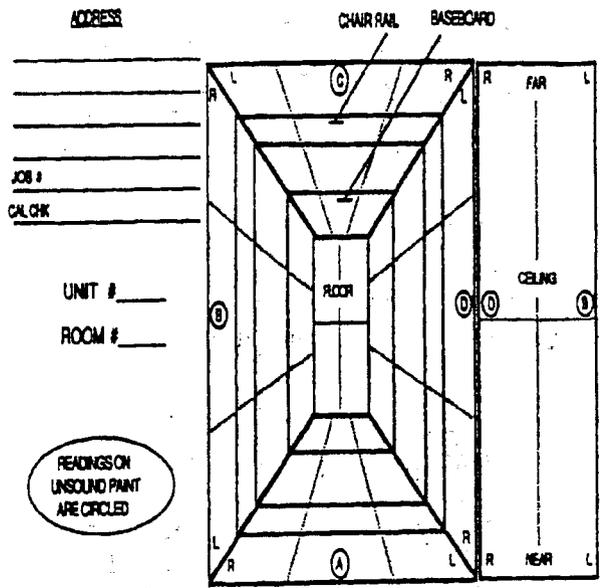
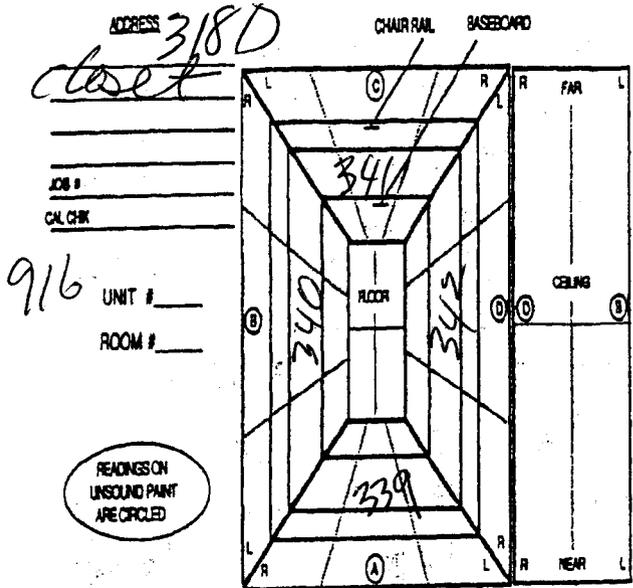
- | | | | | | | | | | | | |
|--------|---|---|---|--------|---|---|---|--------|---|---|---|
| WALL A | B | C | D | WALL A | B | C | D | WALL A | B | C | D |
| LEFT | ○ | ○ | ○ | LEFT | ○ | ○ | ○ | LEFT | ○ | ○ | ○ |
| RIGHT | ○ | ○ | ○ | RIGHT | ○ | ○ | ○ | RIGHT | ○ | ○ | ○ |
| CENTER | ○ | ○ | ○ | CENTER | ○ | ○ | ○ | CENTER | ○ | ○ | ○ |

- | | | | | | | | | | | | |
|--------|---|---|---|--------|---|---|---|--------|---|---|---|
| WALL A | B | C | D | WALL A | B | C | D | WALL A | B | C | D |
| LEFT | ○ | ○ | ○ | LEFT | ○ | ○ | ○ | LEFT | ○ | ○ | ○ |
| RIGHT | ○ | ○ | ○ | RIGHT | ○ | ○ | ○ | RIGHT | ○ | ○ | ○ |
| CENTER | ○ | ○ | ○ | CENTER | ○ | ○ | ○ | CENTER | ○ | ○ | ○ |



COMMENTS: Walls ~~D and C~~ are of smooth trowled - on cement over concrete blocks, substrate and of off white finish. The door is of shea-lac wooden substrate, and the door jamb and components is of shea-lac ~~back~~ ~~substrate~~ over ~~broader~~ substrate. The windows well is of Butter scotch finish over wooden substrate. The windows of a Black metal frame. All other walls are of sheet-rock off white.

COMMENTS: Walls ~~D and C~~ ^{AS} are of smooth trowled - on cement over concrete blocks substrate and off white finish. The door is of shea-lac wooden substrate and the door jamb is of ~~shea-lac~~ ~~wooden~~ substrate. The windows well is of dk Butter scotch wooden substrate and the window is of Black metal framed substrate. WALLS A B C D are of sheet rock off white substrate.



- WALL A B C D
- LEFT
- RIGHT
- CENTER

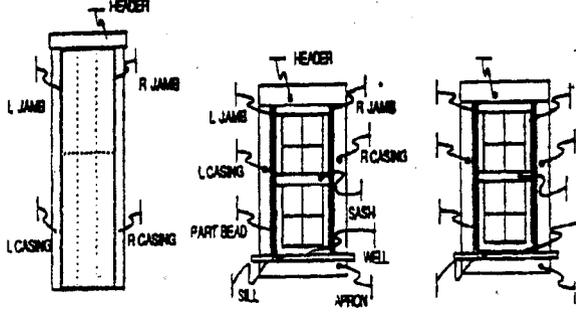
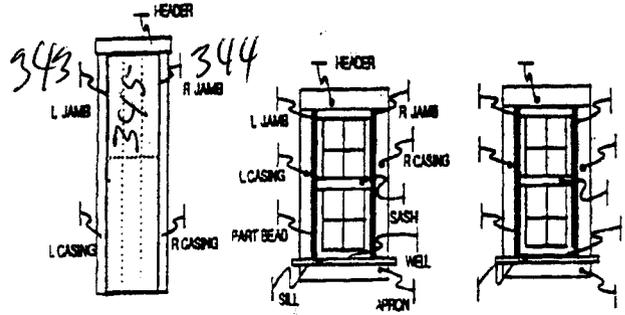
- WALL A B C D
- LEFT
- RIGHT
- CENTER

- WALL A B C D
- LEFT
- RIGHT
- CENTER

- WALL A B C D
- LEFT
- RIGHT
- CENTER

- WALL A B C D
- LEFT
- RIGHT
- CENTER

- WALL A B C D
- LEFT
- RIGHT
- CENTER



COMMENTS: Walls A ~~and C~~ ^{is} OF smooth trowled-on cement over concrete blocks substrate and off white finish. The door is of shea-lac wooden substrate and the door jamb and components is of shea-lac wooden substrate. The windows well is of BUTTER SCOTCH finish over ~~wooden~~ ^{wooden} substrate. The windows is of a Black metal frame.

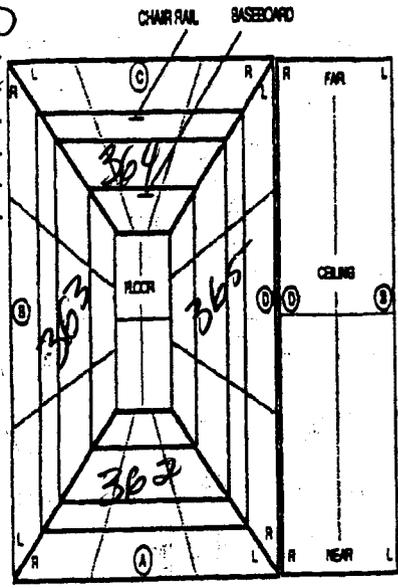
COMMENTS: WALLS A & C ARE OF smooth trowled-on cement over concrete blocks substrate and off white finish. The door is of shea-lac wooden substrate and the door jamb is of DEX. BUTTER SCOTCH metal substrate. The windows well is of DEX BUTTER SCOTCH wooden substrate and the window is of Black metal framed substrate.

ADDRESS 205
1st floor

JOB # _____
CAL CHK _____

UNIT # _____
ROOM # _____

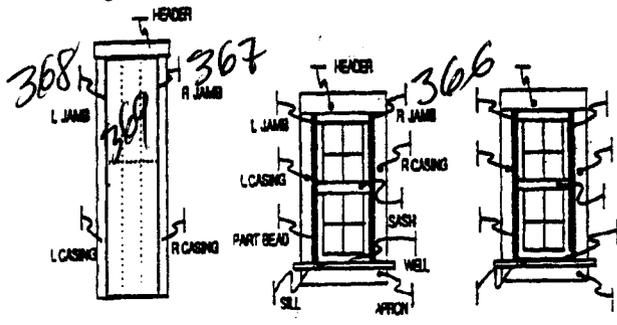
READINGS ON
UNSOUND PAINT
ARE CIRCLED



WALL A B C D
LEFT
RIGHT
CENTER

WALL A B C D
LEFT
RIGHT
CENTER

WALL A B C D
LEFT
RIGHT
CENTER



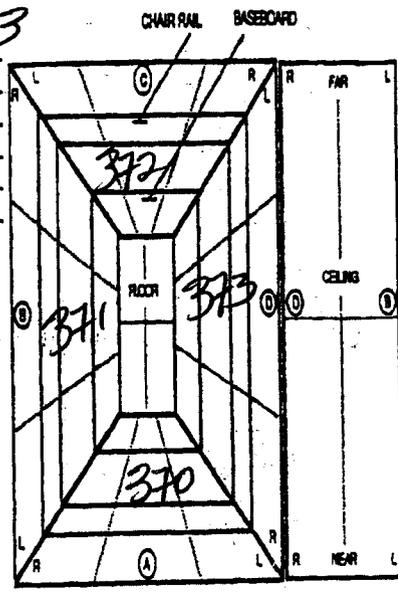
COMMENTS: All walls are wood panels she-A-lac finish. The door is of wooden she-A-lac finish. The door frame & casing is of dk. brown metal substrate. The windows casing is of either scotch wooden substrate.

ADDRESS 203
1st floor

JOB # _____
CAL CHK _____

UNIT # _____
ROOM # _____

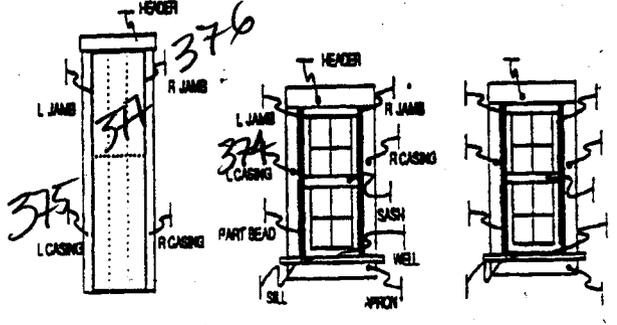
READINGS ON
UNSOUND PAINT
ARE CIRCLED



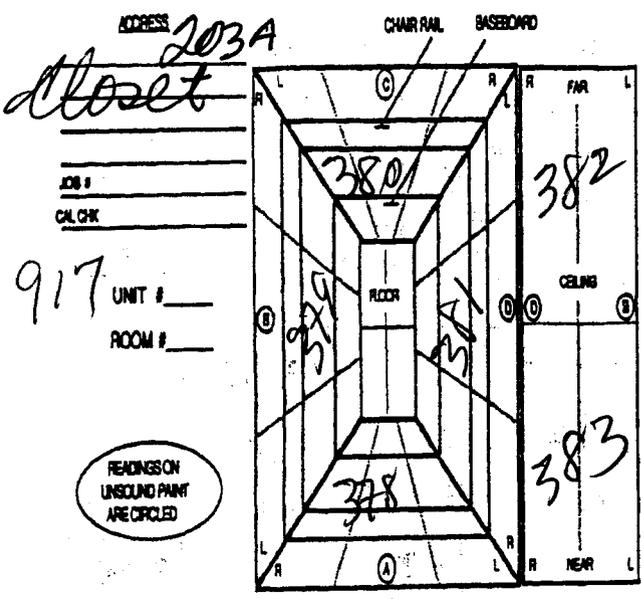
WALL A B C D
LEFT
RIGHT
CENTER

WALL A B C D
LEFT
RIGHT
CENTER

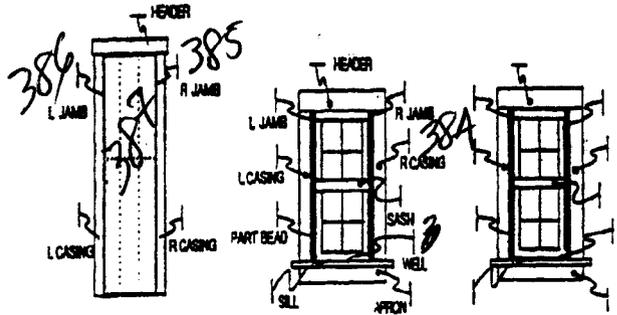
WALL A B C D
LEFT
RIGHT
CENTER



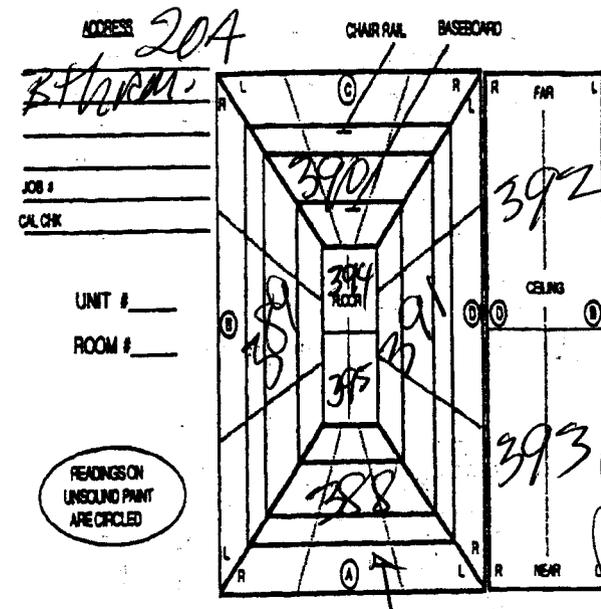
COMMENTS: All walls are wood panels she-A-lac finish. The door is of wooden she-A-lac finish. The door frame & casing is of dk. brown metal substrate. The windows casing is of better scotch wooden substrate.



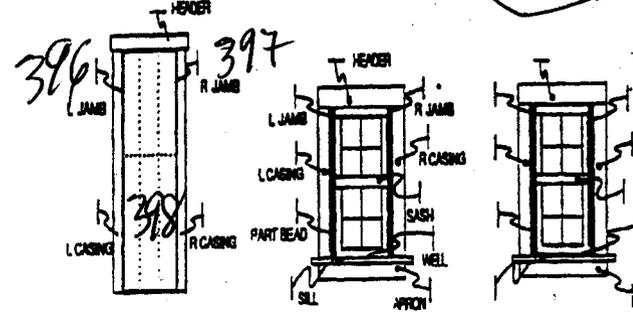
- | | | | | | | | | | | | | | | |
|--------|--------------------------|--------------------------|--------------------------|--------------------------|--------|--------------------------|--------------------------|--------------------------|--------------------------|--------|--------------------------|--------------------------|--------------------------|--------------------------|
| WALL | (A) | (B) | (C) | (D) | WALL | (A) | (B) | (C) | (D) | WALL | (A) | (B) | (C) | (D) |
| LEFT | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | LEFT | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | LEFT | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| RIGHT | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | RIGHT | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | RIGHT | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| CENTER | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | CENTER | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | CENTER | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |



COMMENTS: Closet. All walls are of wooden panels she-a-lac finish. The door is of wooden she-a-lac finish. The door jamb is of dk. Brown metal substrate. The window is of dk. better scotch metal substrate. The ceiling is of white finish metal substrate.

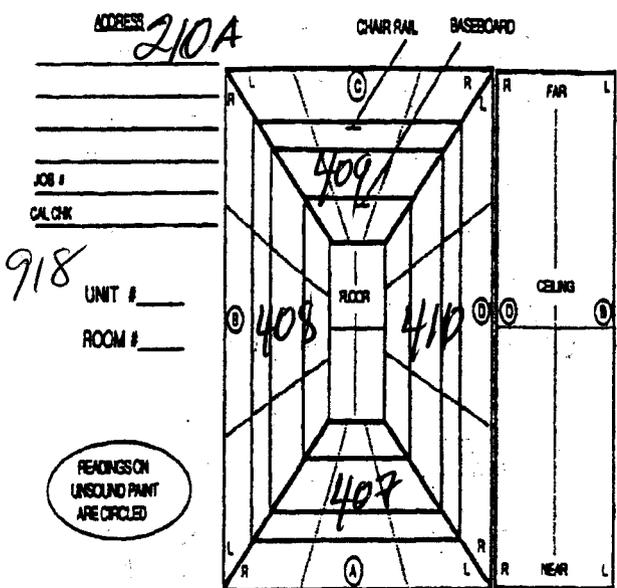
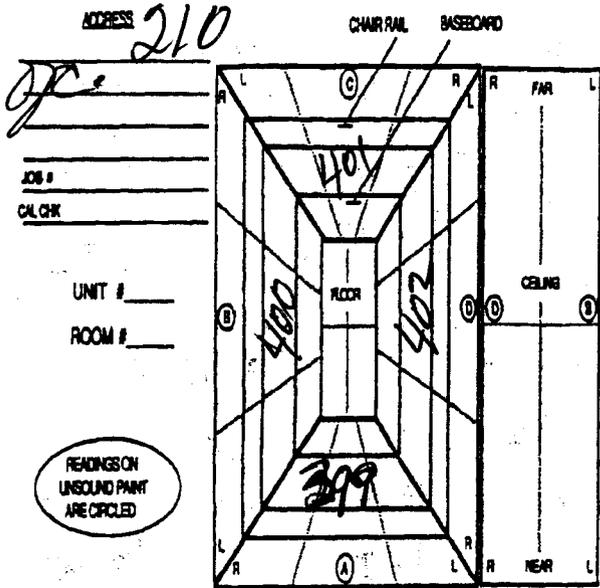


- | | | | | | | | | | | | | | | |
|--------|--------------------------|--------------------------|--------------------------|--------------------------|--------|--------------------------|--------------------------|--------------------------|--------------------------|--------|--------------------------|--------------------------|--------------------------|--------------------------|
| WALL | (A) | (B) | (C) | (D) | WALL | (A) | (B) | (C) | (D) | WALL | (A) | (B) | (C) | (D) |
| LEFT | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | LEFT | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | LEFT | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| RIGHT | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | RIGHT | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | RIGHT | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| CENTER | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | CENTER | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | CENTER | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |



COMMENTS: 1/2 of the wall is ceramic tiled mortar blocks and 1/2 of wall finish concrete block. The ceiling is of white finish plastered substrate. The door is of she-a-lac wooden substrate. The door jamb and casing is of dk. brown metal substrate sample 388 and 389 were selected from mortar blocks 390 & 391 from white finish concrete blocks.

The placed ceramic mortar blocks is of green color and in good condition

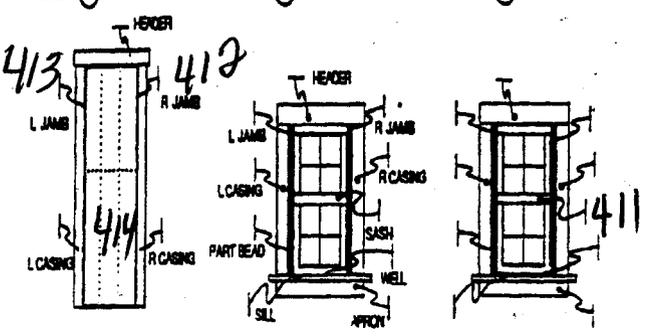
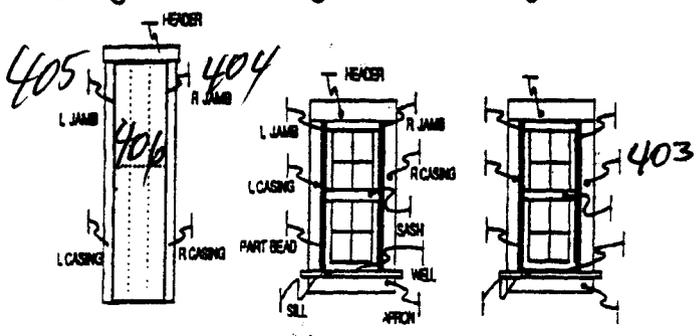


WALL A B C D

LEFT

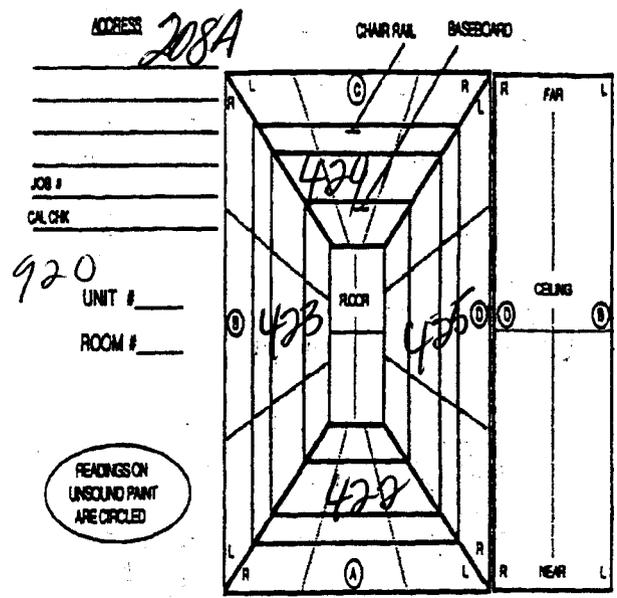
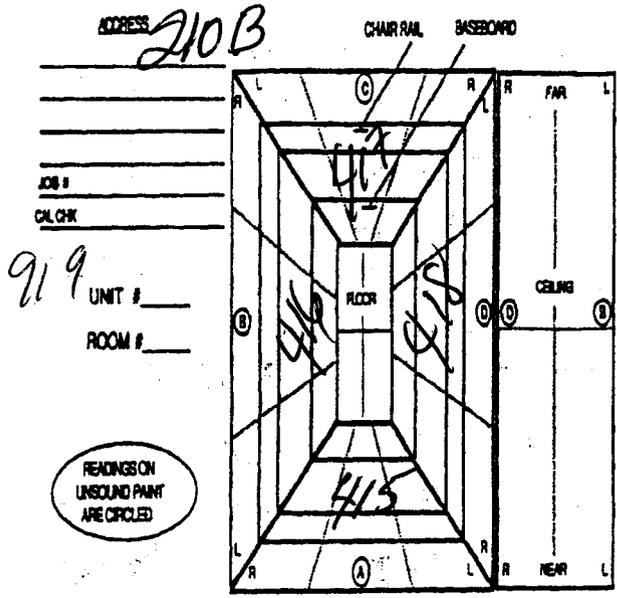
RIGHT

CENTER



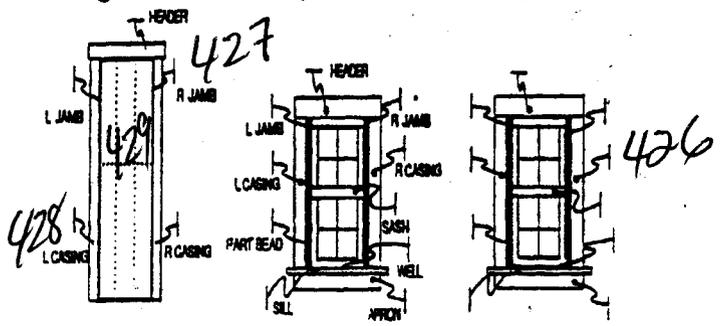
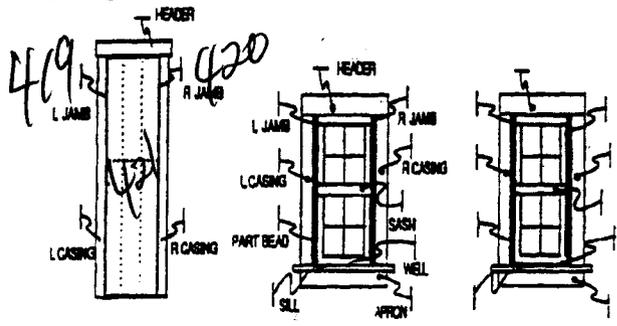
COMMENTS: WALLS A B C D are of wood paneling she - a - lac finish wall E is a wooden framed brown finish. THE windows casing is of DRK. BROWN metal substrate. THE Door is of wooden she - a - lac finish, and the door jamb and casing is of DRK. BROWN metal substrate.

COMMENTS: WALLS B C D are of wooden she - lac finish. wall A & D are of wood framed partitions. THE windows casing is of BATTER SCOTCH metal frames. THE Door is of wooden she - a - lac finish substrate, and the door jamb is of DRK. BROWN metal substrate.



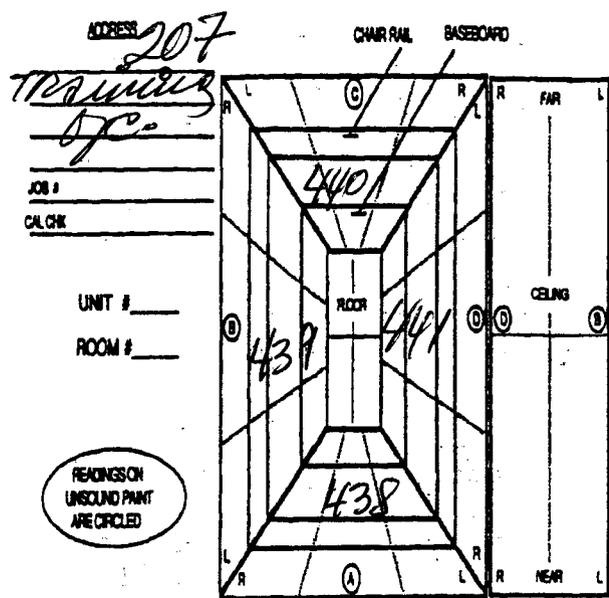
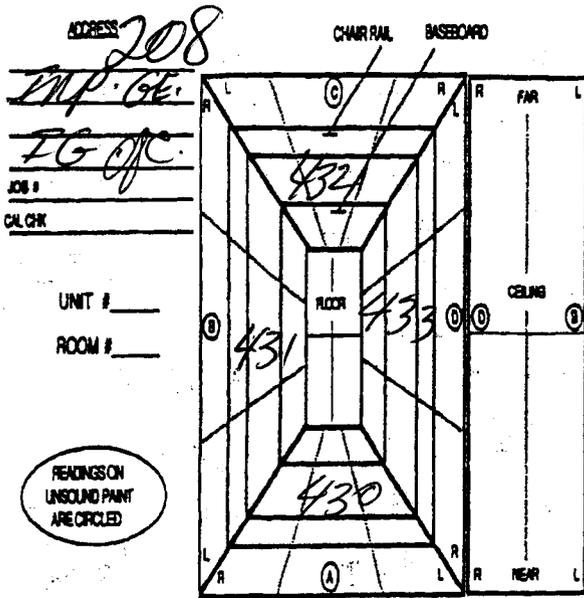
- | | | |
|------------------------------|------------------------------|------------------------------|
| WALL A B C D | WALL A B C D | WALL A B C D |
| LEFT <input type="radio"/> | LEFT <input type="radio"/> | LEFT <input type="radio"/> |
| RIGHT <input type="radio"/> | RIGHT <input type="radio"/> | RIGHT <input type="radio"/> |
| CENTER <input type="radio"/> | CENTER <input type="radio"/> | CENTER <input type="radio"/> |

- | | | |
|------------------------------|------------------------------|------------------------------|
| WALL A B C D | WALL A B C D | WALL A B C D |
| LEFT <input type="radio"/> | LEFT <input type="radio"/> | LEFT <input type="radio"/> |
| RIGHT <input type="radio"/> | RIGHT <input type="radio"/> | RIGHT <input type="radio"/> |
| CENTER <input type="radio"/> | CENTER <input type="radio"/> | CENTER <input type="radio"/> |



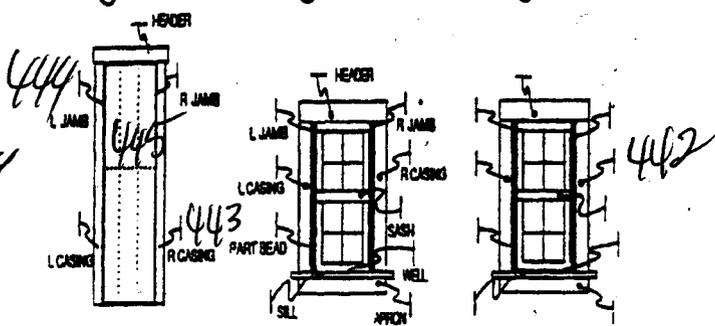
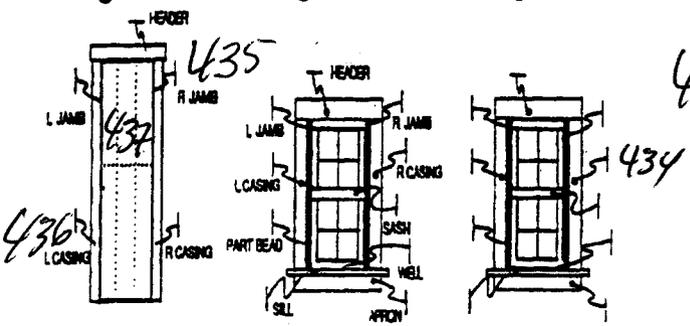
COMMENTS: Walls A & B are of wooden flamed oak. Brown finish. Wall C & D are of Donnell's wooden substrate. Sheer-a-lac finish. The door is of Sheer-a-lac wooden substrate, and the door jamb is of Oak Brown metal substrate.

COMMENTS: All walls are a white finished concrete blocks. The window sash casing is of Butler Scotch metal substrate. The doors of wooden sheer-a-lac. The door casing and jamb is of Oak Brown metal substrate.



- | | | |
|------------------------------|------------------------------|------------------------------|
| WALL A B C D | WALL A B C D | WALL A B C D |
| LEFT <input type="radio"/> | LEFT <input type="radio"/> | LEFT <input type="radio"/> |
| RIGHT <input type="radio"/> | RIGHT <input type="radio"/> | RIGHT <input type="radio"/> |
| CENTER <input type="radio"/> | CENTER <input type="radio"/> | CENTER <input type="radio"/> |

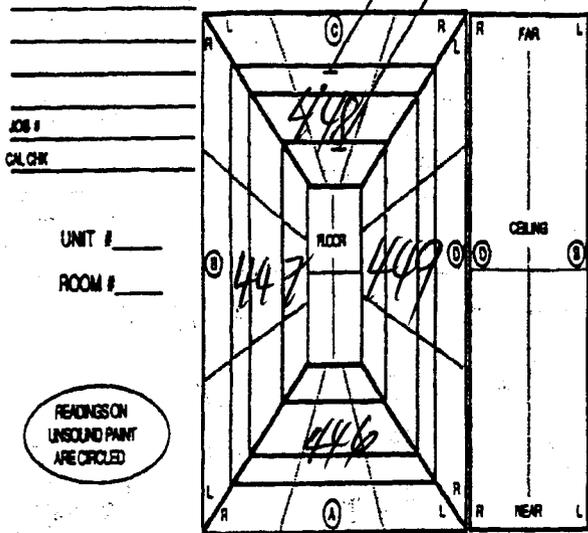
- | | | |
|---------------------------------------|------------------------------|------------------------------|
| WALL A B C D | WALL A B C D | WALL A B C D |
| LEFT <input checked="" type="radio"/> | LEFT <input type="radio"/> | LEFT <input type="radio"/> |
| RIGHT <input type="radio"/> | RIGHT <input type="radio"/> | RIGHT <input type="radio"/> |
| CENTER <input type="radio"/> | CENTER <input type="radio"/> | CENTER <input type="radio"/> |



COMMENTS: All walls are of white finish & concrete blocks. THE DOOR IS OF WOODEN She-A-Loc. THE DOOR JAMB & CASING IS OF DK. BROWN METAL substrate. THE WINDOW IS OF BUTTERSCOTCH FINISH OVER METAL substrate.

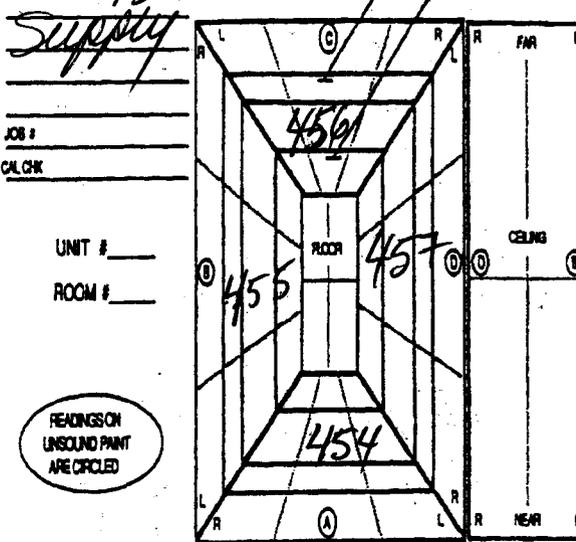
COMMENTS: All walls are of 1/2 yellow finish & concrete, and 1/2 of wooden panels She-A-Loc finish. THE WINDOW CASING IS OF BUTTERSCOTCH OVER METAL substrate. THE DOOR IS OF WOODEN She-A-Loc. THE DOOR JAMB & CASING IS OF DK. BROWN METAL substrate. THE WALL SAMPLE 438 THAN 441 WERE COLLECTED FROM THE YELLOW PAINT.

ADDRESS 205



READINGS ON UNSOUND PAINT ARE CIRCLED

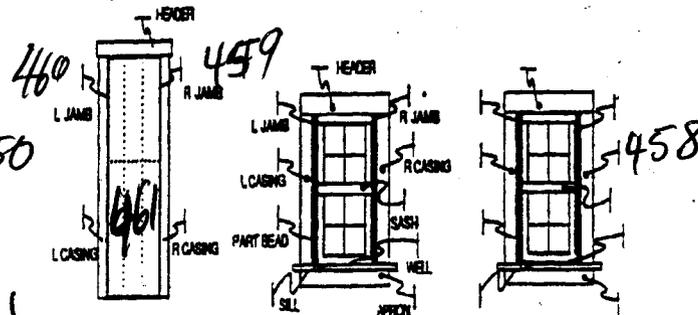
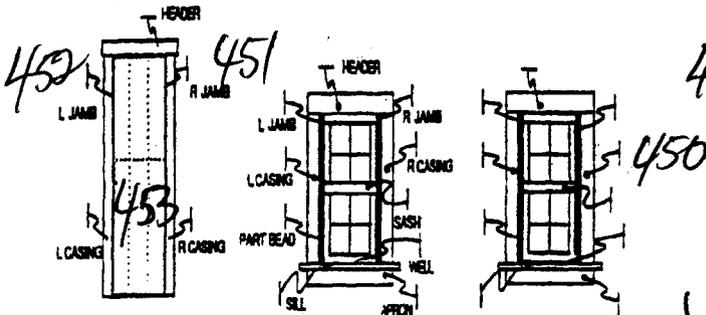
ADDRESS 130



READINGS ON UNSOUND PAINT ARE CIRCLED

WALL A B C D

LEFT
RIGHT
CENTER



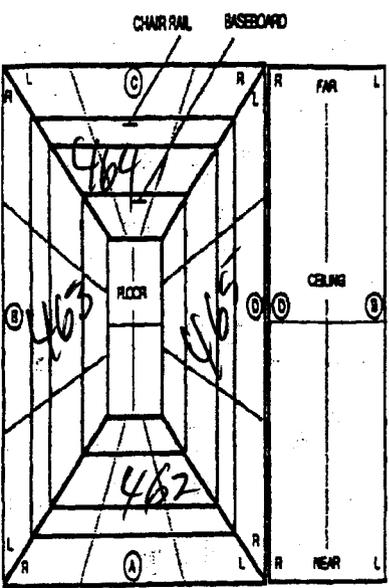
COMMENTS:

All wall are of wooden she-she-lac. The window casing is of spotted metal substrate. The door is of she-she-lac wooden substrate. The door casing of door jamb is of Dk Brown over metal substrate.

COMMENTS:

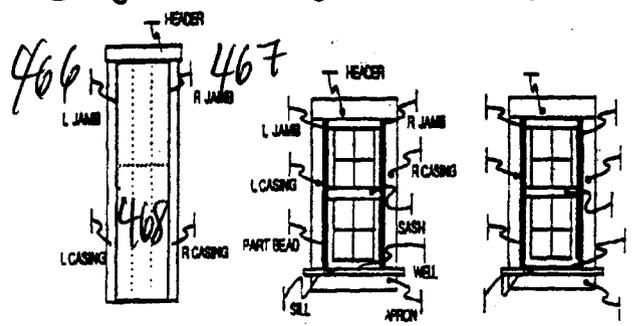
Wall A is of 1/3 plastered white substrate wall B is of white finish concrete blocks. wall C is of sheet rock white finish, & wall D is of trowled-on concrete over concrete blocks. The door is of wooden she-she-lac, and the door jamb and casing is of Dk Brown metal substrate. The window is of Dk Brown metal casing.

ADDRESS 131
 Firing Range
 JOB #
 CAL. CHK
 Computer
 UNIT #
 ROOM #
 FAT TRAINING



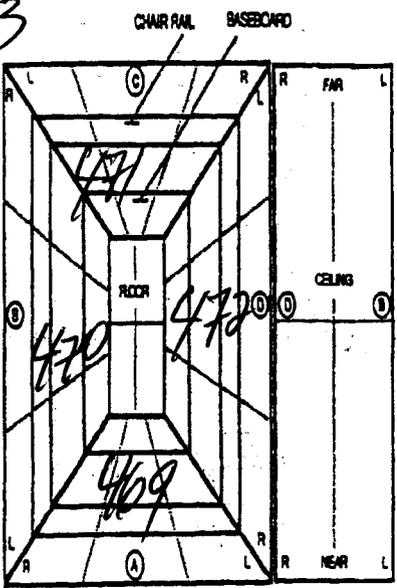
READINGS ON UNSOUND PAINT ARE CIRCLED

- | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| WALL A | WALL B | WALL C | WALL D | WALL A | WALL B | WALL C | WALL D | WALL A | WALL B | WALL C | WALL D |
| LEFT | RIGHT | CENTER | | LEFT | RIGHT | CENTER | | LEFT | RIGHT | CENTER | |



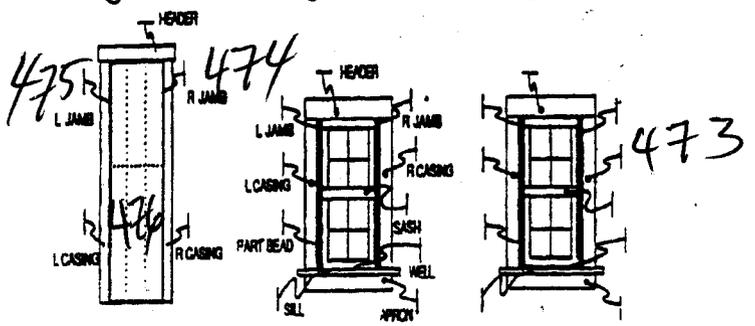
COMMENTS: All walls are of white finish over concrete blocks. Floor is a white finish over concrete blocks. No papers to the stretch brown upwards casing. THE DOOR is of wooden she-a-lac. And the door jamb & frame is of Dk Brown metal.

ADDRESS 133
 ABC RM
 JOB #
 CAL. CHK
 UNIT #
 ROOM #



READINGS ON UNSOUND PAINT ARE CIRCLED

- | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| WALL A | WALL B | WALL C | WALL D | WALL A | WALL B | WALL C | WALL D | WALL A | WALL B | WALL C | WALL D |
| LEFT | RIGHT | CENTER | | LEFT | RIGHT | CENTER | | LEFT | RIGHT | CENTER | |



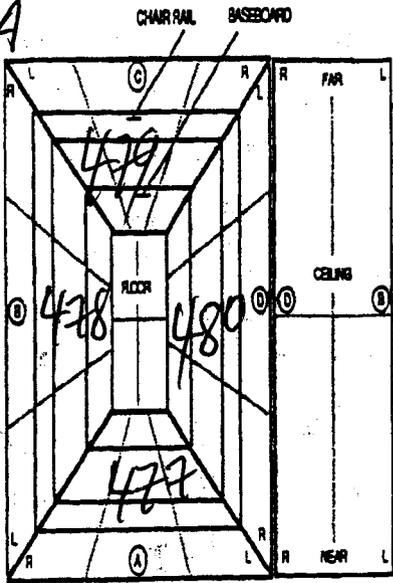
COMMENTS: walls A, C, & D are of white finish over concrete blocks wall B is a concrete white finish. THE WINDOW CASING is a white stretch over metal substrate. THE DOOR is wooden she-a-lac substrate. THE DOOR JAMB & CASING is of Dk. Brown over metal substrate.

ADDRESS 133A
 Closet

JOB # _____
 CAL CRK _____

921 UNIT # _____
 ROOM # _____

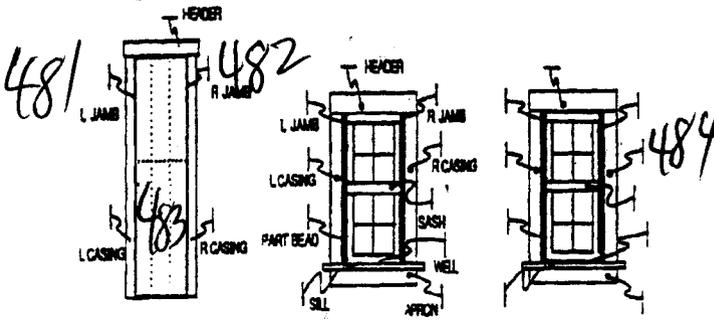
READINGS ON UNSOUND PAINT ARE CIRCLED



WALL A B C D
 LEFT
 RIGHT
 CENTER

WALL A B C D
 LEFT
 RIGHT
 CENTER

WALL A B C D
 LEFT
 RIGHT
 CENTER



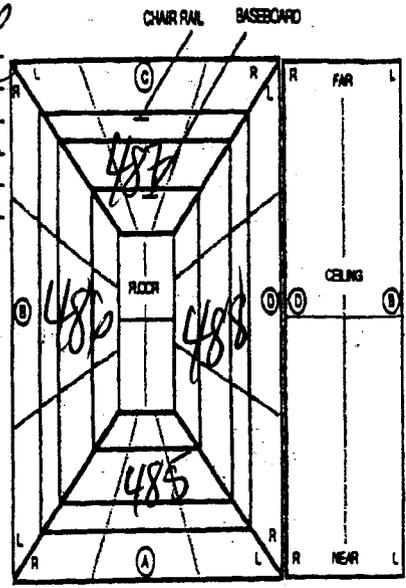
COMMENTS: All walls is of concrete
 pick out a white finish
 The doors jamb and casing
 is of Dk Brown metal
 substrate. The door is
 of She-A-Lac wooden
 substrate. The windows
 casing is of Butter
 Scotch metal substrate.

ADDRESS 136
 weaver
 debris
 area

JOB # _____
 CAL CRK _____

UNIT # _____
 ROOM # _____

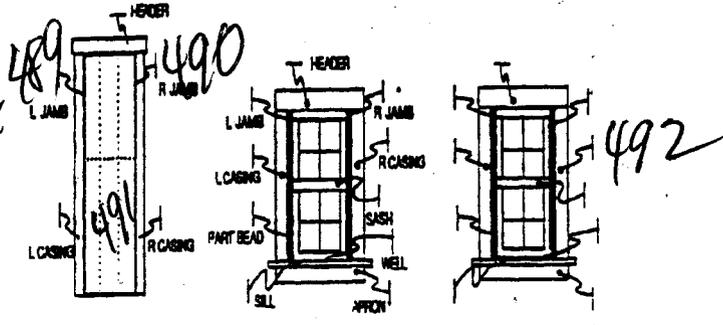
READINGS ON UNSOUND PAINT ARE CIRCLED



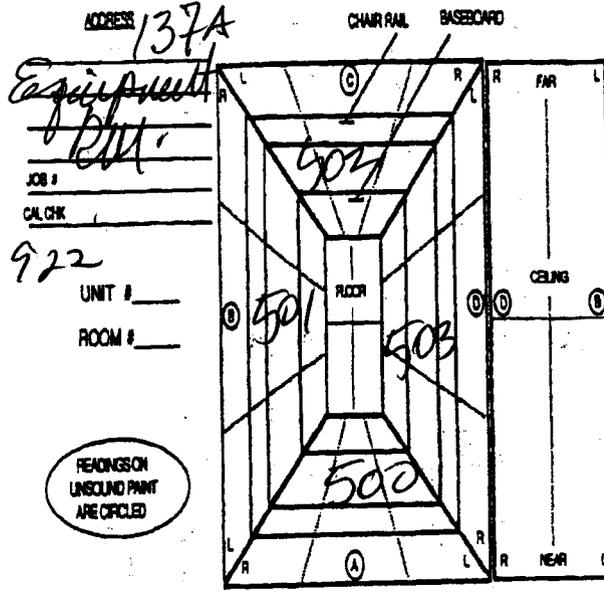
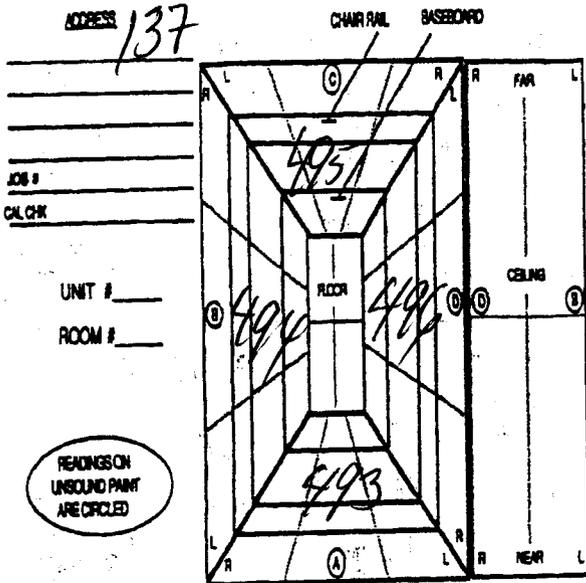
WALL A B C D
 LEFT
 RIGHT
 CENTER

WALL A B C D
 LEFT
 RIGHT
 CENTER

WALL A B C D
 LEFT
 RIGHT
 CENTER



COMMENTS: All walls is of white finish
 over concrete blocks. The
 windows casing is of Butter
 Scotch metal substrate. The
 door is of She-A-Lac wooden
 substrate, and the door
 jamb & casing is of Dk
 Brown metal substrate.



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

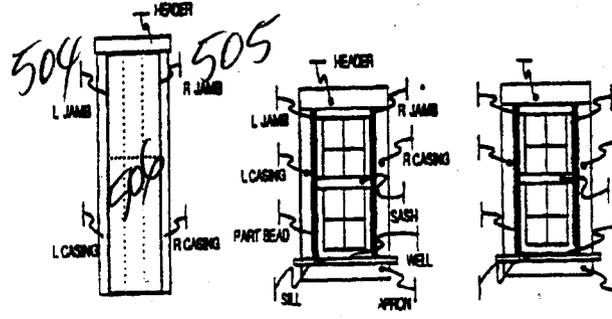
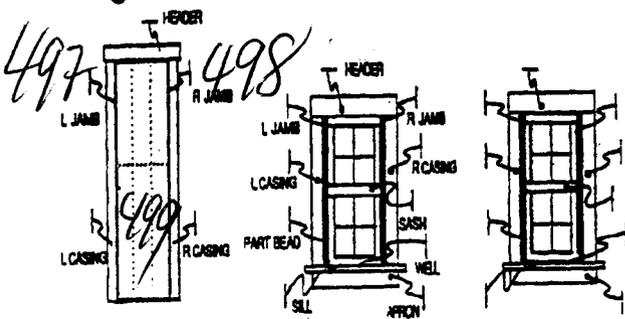
- WALL (A) (B) (C) (D)
- LEFT ()
- RIGHT ()
- CENTER ()

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

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

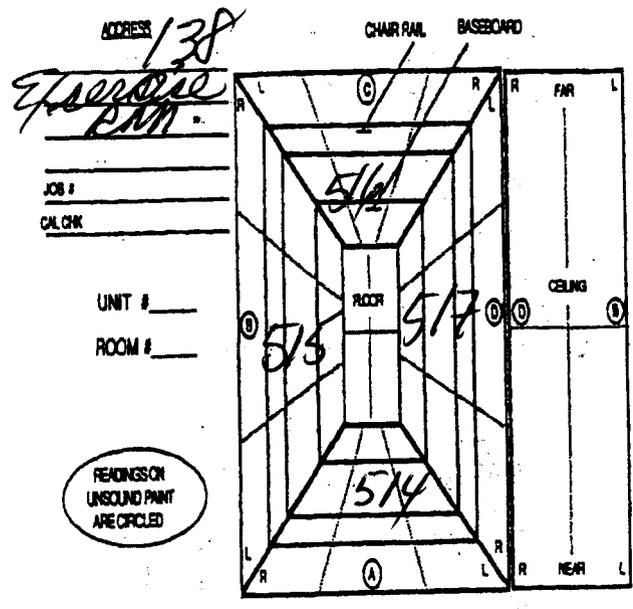
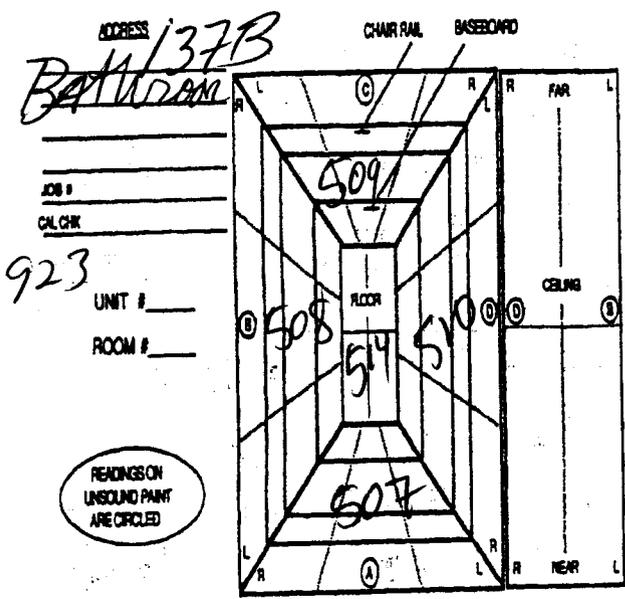
- WALL (A) (B) (C) (D)
- LEFT ()
- RIGHT ()
- CENTER ()

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



COMMENTS: All walls are of white finish concrete blocks. The door is a wooden 3/4" x 4" x 6" door. The window casing and door parts and casing are of dark brown metal substrate.

COMMENTS: All walls are of white finish concrete blocks. The door is a 3/4" x 4" x 6" wooden substrate. The door jamb is of dark brown metal substrate. The window casing and door parts are of dark brown metal substrate.



- WALL A B C D
- LEFT
 - RIGHT
 - CENTER

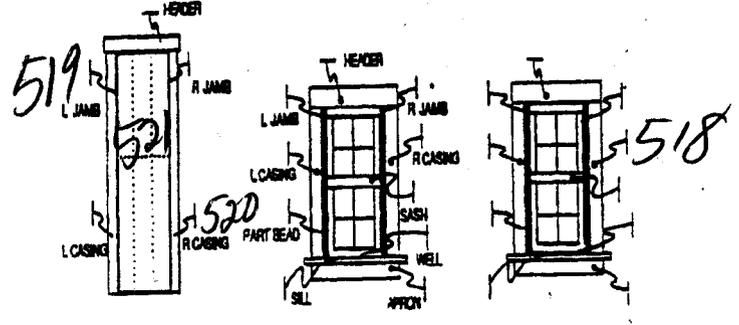
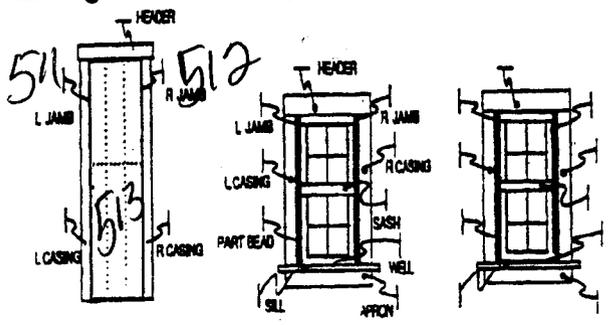
- WALL A B C D
- LEFT
 - RIGHT
 - CENTER

- WALL A B C D
- LEFT
 - RIGHT
 - CENTER

- WALL A B C D
- LEFT
 - RIGHT
 - CENTER

- WALL A B C D
- LEFT
 - RIGHT
 - CENTER

- WALL A B C D
- LEFT
 - RIGHT
 - CENTER

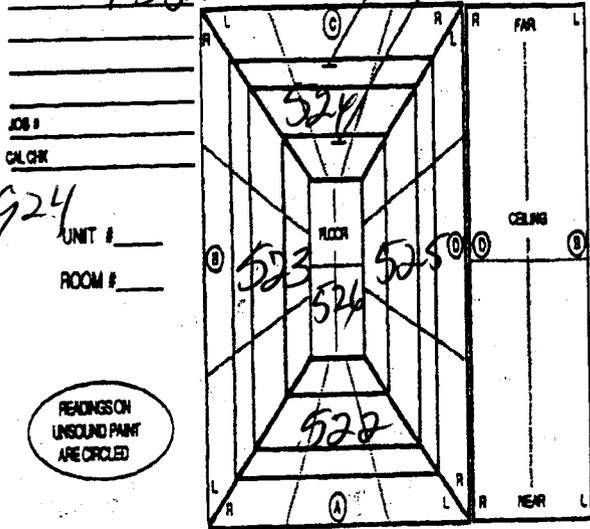


COMMENTS: 1/2 of the wall is a
 precast concrete mortar
 block and 1/2 of white
 brick mortar block.
 The floor is of green
 ceramic tiles. The
 door is of wooden
 she-a-lac and the
 door jamb & casing
 is of Dk. Brown
 metal substrate. Samples
 507 & 508 were collected
 from the mortar blocks.
 material is in good condition

COMMENTS: All walls are white
 precast concrete blocks, the
 window casing is Butler
 steel metal substrate. The
 door jamb & casing is of Dk
 Brown metal substrate.
 The door is of she-a-lac
 wooden substrate

ADDRESS 138A

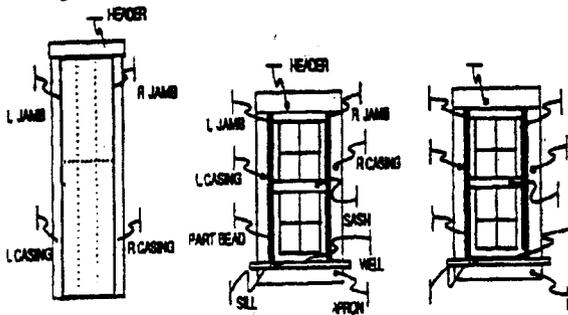
CHAIR RAIL BASEBOARD



JOB # _____
 CALC # _____
 924
 UNIT # _____
 ROOM # _____

READINGS ON UNSOUND PAINT ARE CIRCLED

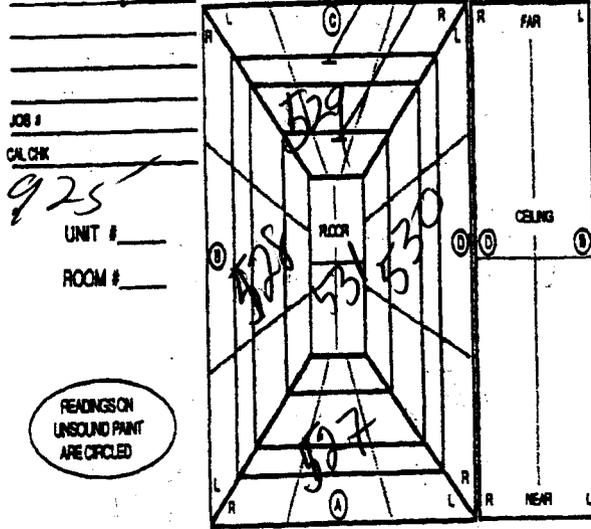
WALL A B C D
 LEFT
 RIGHT
 CENTER



COMMENTS: All walls are of 2/3 mortar ceramic blocks. The floor is of ceramic tiles green.

ADDRESS 138B

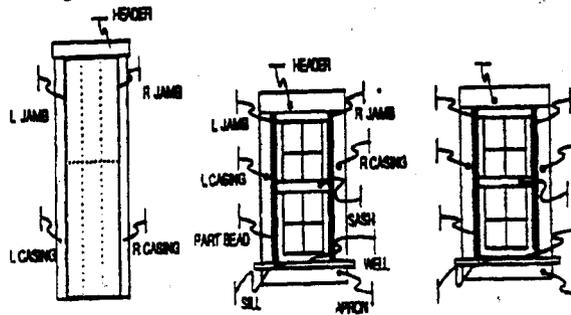
CHAIR RAIL BASEBOARD



JOB # _____
 CALC # _____
 925
 UNIT # _____
 ROOM # _____

READINGS ON UNSOUND PAINT ARE CIRCLED

WALL A B C D
 LEFT
 RIGHT
 CENTER



COMMENTS: All walls are of 2/3 mortar ceramic blocks. The floor is of ceramic tiles green.

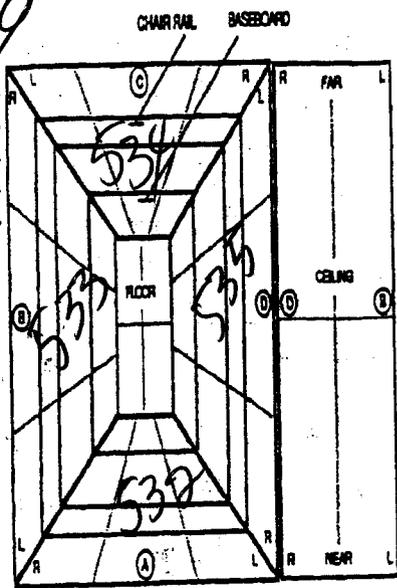
Samples 527 thru 525 were collected from the ceramic mortar blocks

ADDRESS 139
~~Basement~~
~~Hallway~~

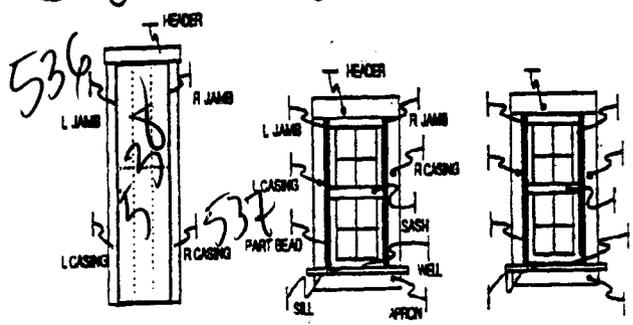
JOB # _____
 CAL CRK _____

UNIT # _____
 ROOM # _____

READINGS ON
 UNSOUND PAINT
 ARE CIRCLED



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



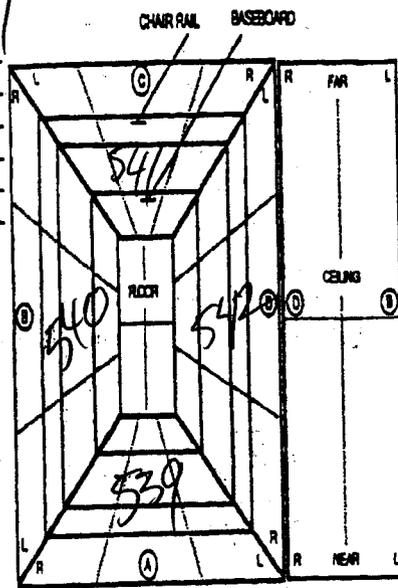
COMMENTS: All walls are a 1/2 of
 grey ceramic mortar
 block and 1/2 white
 concrete blocks. The
 doors are wooden
 1 1/2" x 6" x 1" and
 the doors jamb is a
 Dek. Brown metal
 substrate sample
 533 & 535 were
 from the mortar block.
 This material is in good
 condition

ADDRESS 211
~~Basement~~
~~Hallway~~

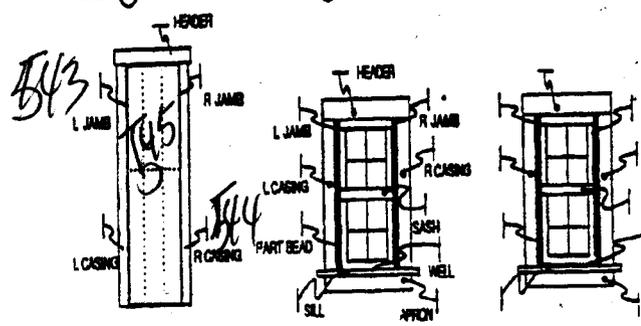
JOB # _____
 CAL CRK _____

UNIT # _____
 ROOM # _____

READINGS ON
 UNSOUND PAINT
 ARE CIRCLED



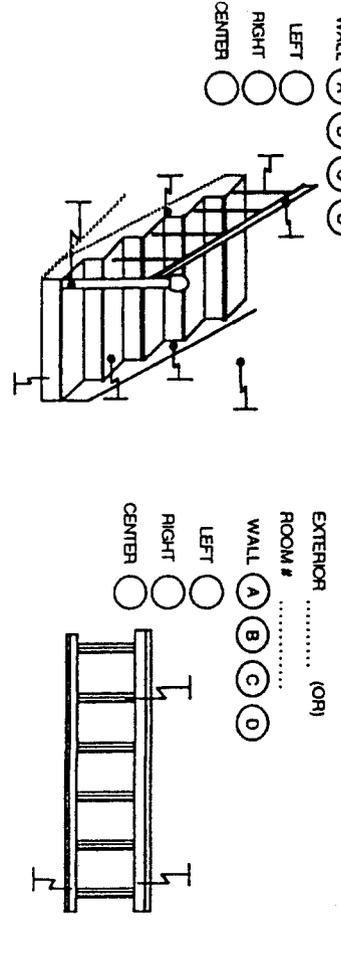
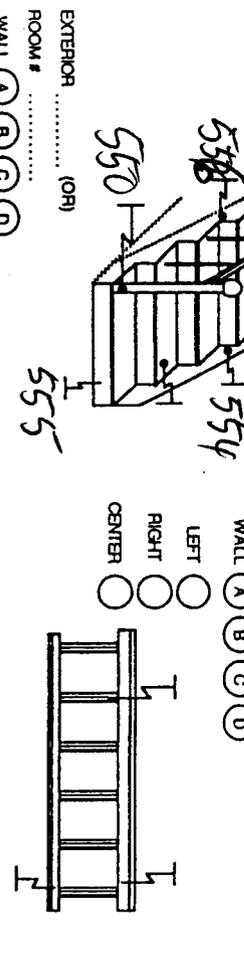
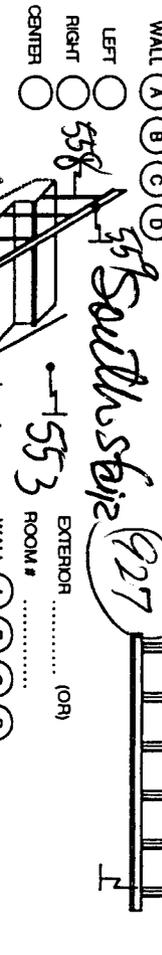
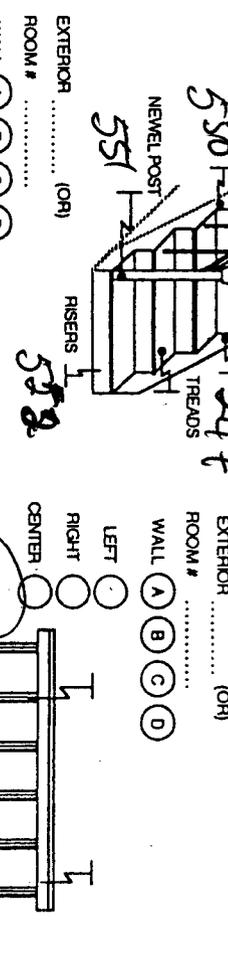
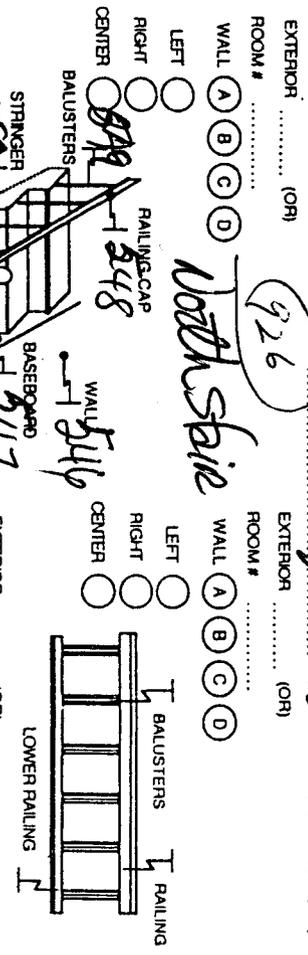
- | | | |
|----------------------|----------------------|----------------------|
| WALL (A) (B) (C) (D) | WALL (A) (B) (C) (D) | WALL (A) (B) (C) (D) |
| LEFT () | LEFT () | LEFT () |
| RIGHT () | RIGHT () | RIGHT () |
| CENTER () | CENTER () | CENTER () |



COMMENTS: The walls are a 1/2 grey
 ceramic mortar blocks and
 1/2 white concrete block. The
 doors are 1 1/2" x 6" x 1" wooden
 substrate and the doors jamb
 is a Dek. Brown metal
 substrate sample 540 &
 542 were taken from the
 grey mortar blocks

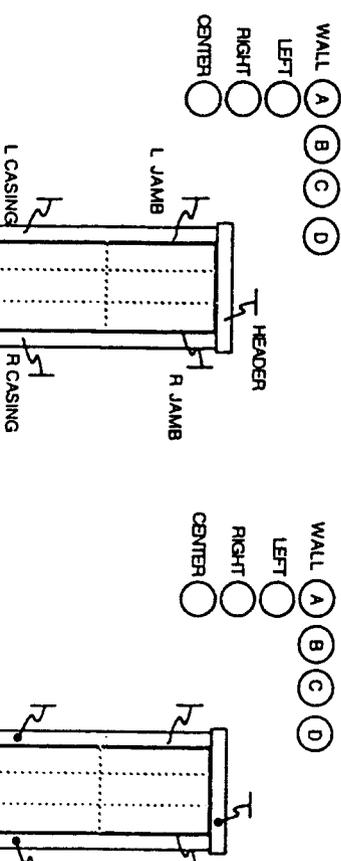
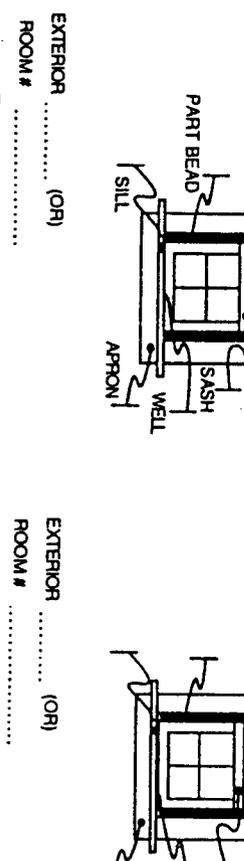
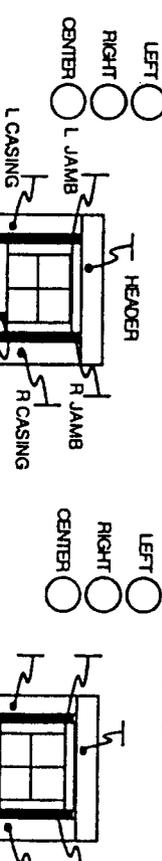
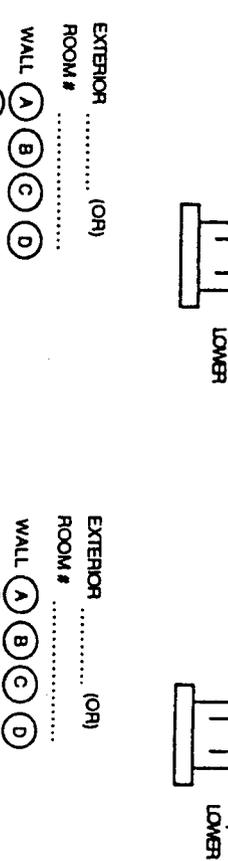
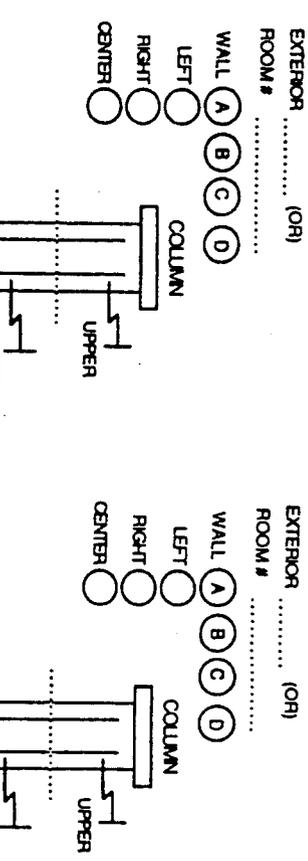
JOB # 926 Walker Avenue West Park

North Stair



JOB # 927

South Stair



Interior ONLY

Interior ONLY

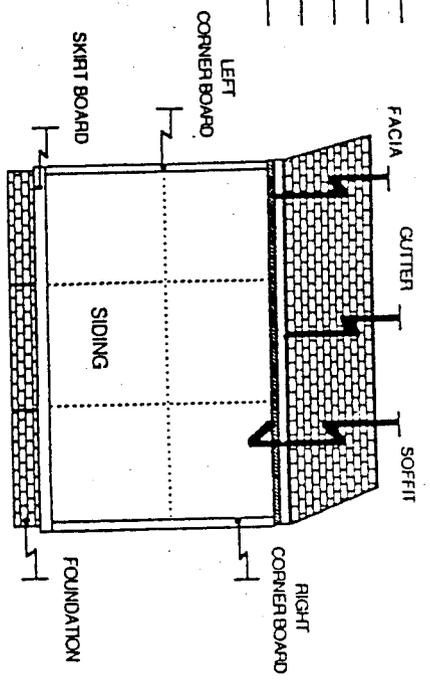
COMMENTS:

Worcester Superior Doors & parts.

ADDRESS _____

JOB # _____
 CAL CHK _____

UNIT # _____

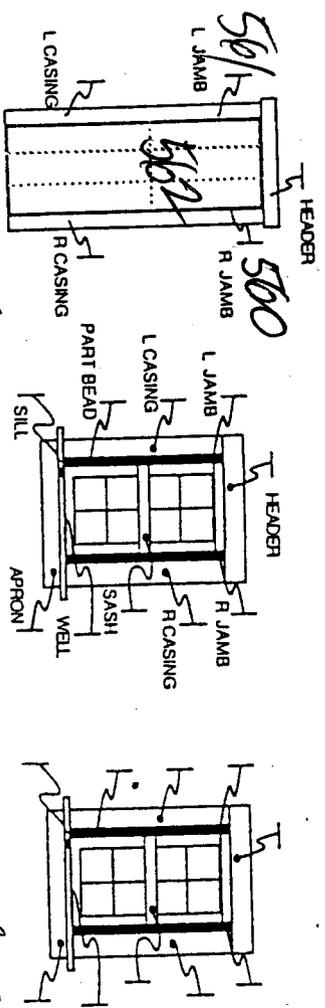


READINGS ON UNSOUND PAINT ARE CIRCLED

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

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

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



ADDRESS _____

JOB # _____
 CAL CHK _____

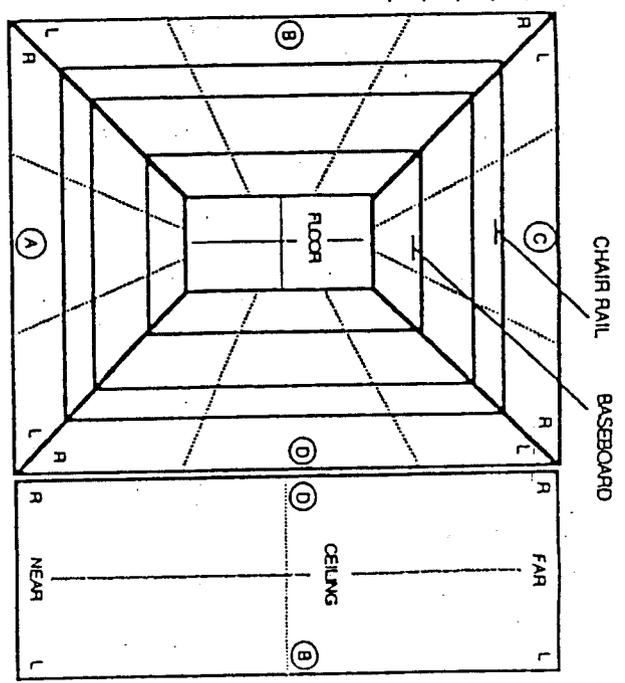
UNIT # _____
 ROOM # _____

READINGS ON UNSOUND PAINT ARE CIRCLED

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

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

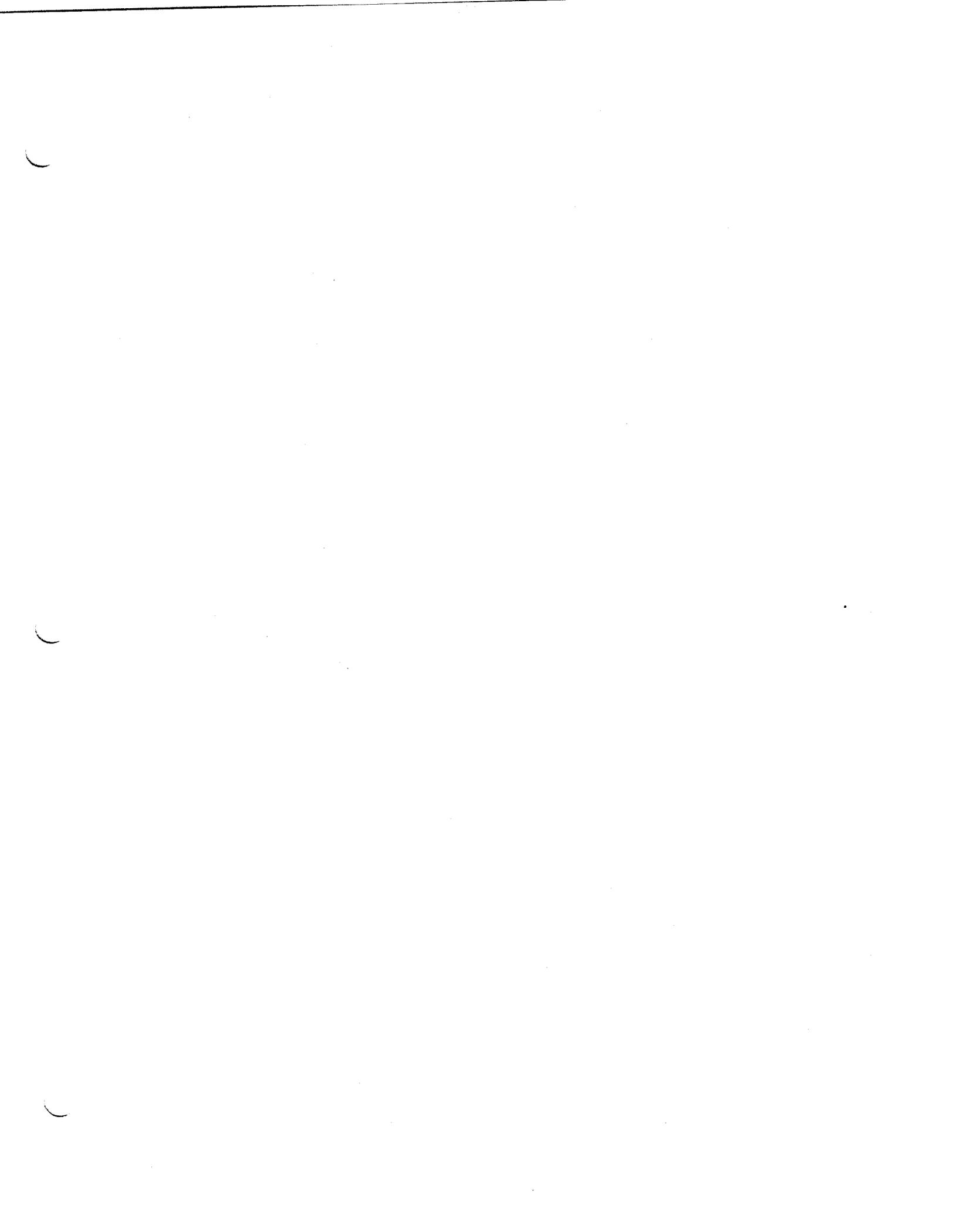
WALL (A) (B) (C) (D)
 LEFT
 RIGHT
 CENTER



COMMENTS:

*All doors are of metal
 Dark brown finish as
 specified on the Doors parts
 & Dr and casing*

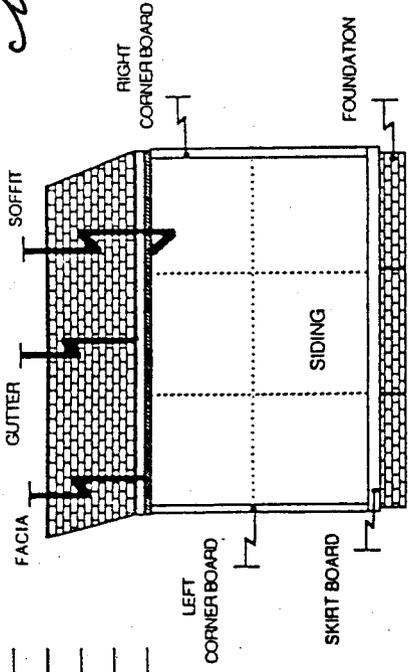
*See other scale for
 Two other doors.*



Motor, not window IC - 071
No Samples May Paint Observed
Inside or outside the B.G.

ADDRESS _____

 JOB # _____
 CAL CHK _____



UNIT # _____

READINGS ON UNSOUND PAINT ARE CIRCLED

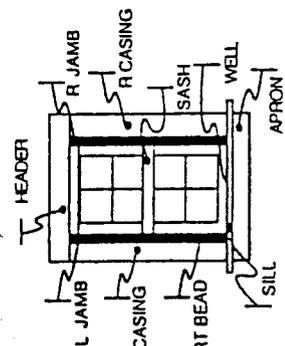
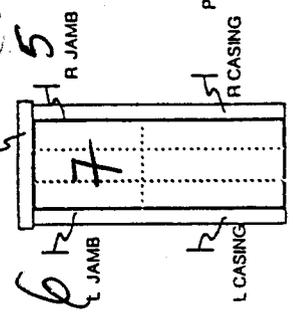
WALL (A) (B) (C) (D)

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

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

Exterior Sounding



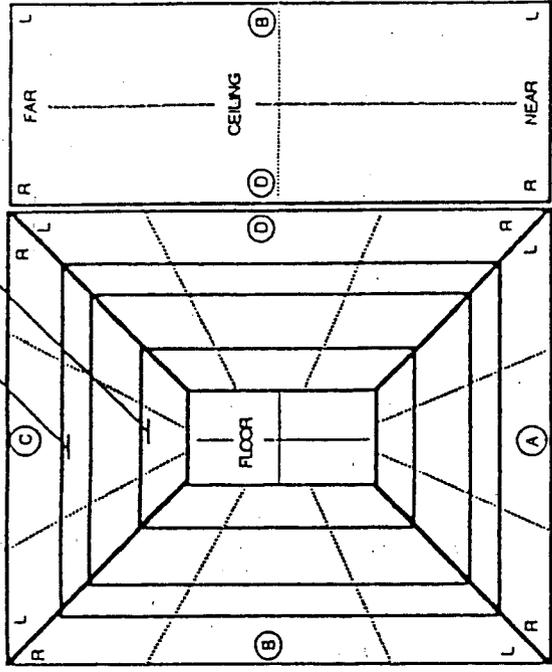
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 LEFT
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WALL (A) (B) (C) (D)
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WALL (A) (B) (C) (D)
 LEFT
 RIGHT
 CENTER

ADDRESS _____

 JOB # _____
 CAL CHK _____
 UNIT # _____
 ROOM # _____



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

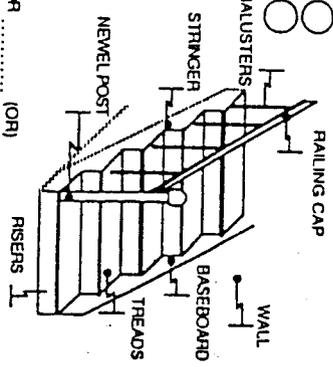
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 LEFT
 RIGHT
 CENTER

COMMENTS: *The samples collected in this group is for doors only.*
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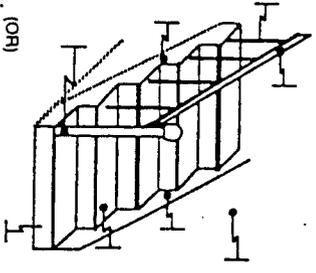
JOB #

JOB #

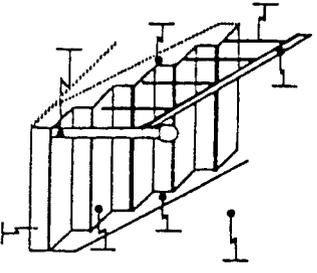
EXTERIOR (OR)
ROOM #
WALL (A) (B) (C) (D)
LEFT ○
RIGHT ○
CENTER ○



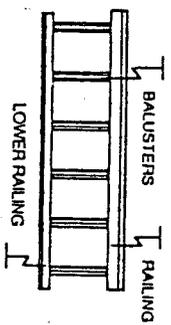
EXTERIOR (OR)
ROOM #
WALL (A) (B) (C) (D)
LEFT ○
RIGHT ○
CENTER ○



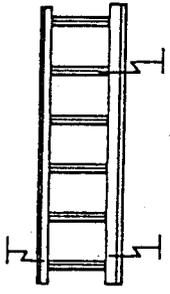
EXTERIOR (OR)
ROOM #
WALL (A) (B) (C) (D)
LEFT ○
RIGHT ○
CENTER ○



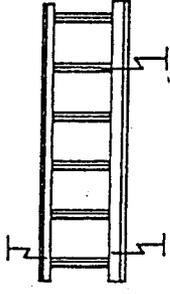
EXTERIOR (OR)
ROOM #
WALL (A) (B) (C) (D)
LEFT ○
RIGHT ○
CENTER ○



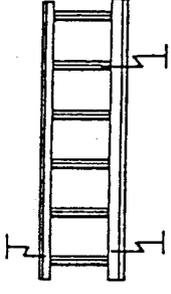
EXTERIOR (OR)
ROOM #
WALL (A) (B) (C) (D)
LEFT ○
RIGHT ○
CENTER ○



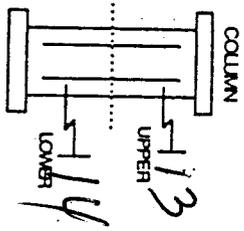
EXTERIOR (OR)
ROOM #
WALL (A) (B) (C) (D)
LEFT ○
RIGHT ○
CENTER ○



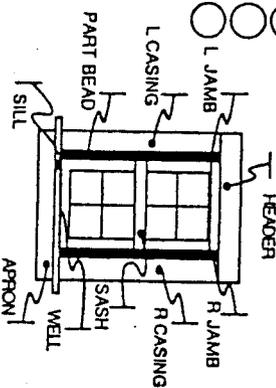
EXTERIOR (OR)
ROOM #
WALL (A) (B) (C) (D)
LEFT ○
RIGHT ○
CENTER ○



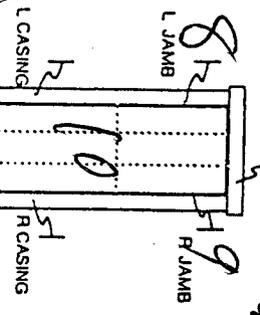
EXTERIOR (OR)
ROOM #
WALL (A) (B) (C) (D)
LEFT ○
RIGHT ○
CENTER ○



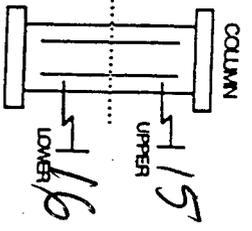
EXTERIOR (OR)
ROOM #
WALL (A) (B) (C) (D)
LEFT ○
RIGHT ○
CENTER ○



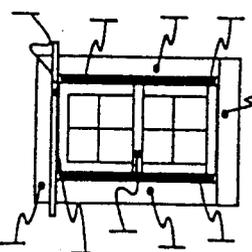
EXTERIOR (OR)
ROOM #
WALL (A) (B) (C) (D)
LEFT ○
RIGHT ○
CENTER ○



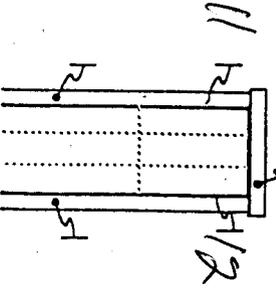
EXTERIOR (OR)
ROOM #
WALL (A) (B) (C) (D)
LEFT ○
RIGHT ○
CENTER ○



EXTERIOR (OR)
ROOM #
WALL (A) (B) (C) (D)
LEFT ○
RIGHT ○
CENTER ○



EXTERIOR (OR)
ROOM #
WALL (A) (B) (C) (D)
LEFT ○
RIGHT ○
CENTER ○



COMMENTS:

The owner says: "I want a railing that is similar to the one in the picture but with a different baluster design." I will use the same material as the one in the picture but with a different baluster design.

The owner says: "I want a railing that is similar to the one in the picture but with a different baluster design." I will use the same material as the one in the picture but with a different baluster design.

Appendix E
**Regulatory Database
Search Reports**



EDR® Environmental
Data Resources Inc

The EDR Radius Map with GeoCheck®

**Waukegan AFRC, IL
1721 NORTH MCAREE ROAD
WAUKEGAN, IL 60085**

Inquiry Number: 01714247.116r

July 12, 2006

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

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Detail Map	3
Map Findings Summary	4
Map Findings	6
Orphan Summary	23
Government Records Searched/Data Currency Tracking	GR-1
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Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting Source Map	A-10
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Physical Setting Source Records Searched	A-92

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

1721 NORTH MCAREE ROAD
WAUKEGAN, IL 60085

COORDINATES

Latitude (North): 42.384400 - 42° 23' 3.8"
Longitude (West): 87.865200 - 87° 51' 54.7"
Universal Transverse Mercator: Zone 16
UTM X (Meters): 428776.8
UTM Y (Meters): 4692605.5
Elevation: 687 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 42087-D7 ZION, IL
Most Recent Revision: 1993

South Map: 42087-C7 WAUKEGAN, IL
Most Recent Revision: 1993

West Map: 42087-D8 WADSWORTH, IL
Most Recent Revision: 1993

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following government records. For more information on this property see page 6 of the attached EDR Radius Map report:

<u>Site</u>	<u>Database(s)</u>	<u>EPA ID</u>
86TH ARMY RESERVE COMMAND 1721 NORTH MCAREE RD. WAUKEGAN, IL 60085	LUST NFA/NFR Letter: 1996-01-18	N/A
ARMED FORCES RESERV CENTER 1721 N MCAREE RD WAUKEGAN, IL 60085	UST	N/A
U S ARMY RESERVE CTR 1721 N MCAREE RD WAUKEGAN, IL 60085	RCRA-SQG FINDS	IL0000802496
US ARMY RESERVE CENTER 1721 N MCAREE RD WAUKEGAN, IL 60085	UST	N/A

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

Proposed NPL	Proposed National Priority List Sites
Delisted NPL	National Priority List Deletions
NPL RECOVERY	Federal Superfund Liens
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP	CERCLIS No Further Remedial Action Planned
CORRACTS	Corrective Action Report
RCRA-TSDF	Resource Conservation and Recovery Act Information
ERNS	Emergency Response Notification System
HMIRS	Hazardous Materials Information Reporting System
US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
US BROWNFIELDS	A Listing of Brownfields Sites
CONSENT	Superfund (CERCLA) Consent Decrees
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

SWF/LF	Available Disposal for Solid Waste in Illinois - Solid Waste Landfills Subject to State Surcharge
ENG CONTROLS	Sites with Engineering Controls
Inst Control	Institutional Controls
SRP	Site Remediation Program Database
DRYCLEANERS	Illinois Licensed Drycleaners
IMPDMNT	Surface Impoundment Inventory
BROWNFIELDS	Municipal Brownfields Redevelopment Grant Program Project Descriptions
AIRS	AIRS

TRIBAL RECORDS

INDIAN RESERV	Indian Reservations
----------------------	---------------------

EXECUTIVE SUMMARY

EDR PROPRIETARY RECORDS

Manufactured Gas Plants... EDR Proprietary Manufactured Gas Plants
EDR Historical Auto Stations EDR Proprietary Historic Gas Stations
EDR Historical Cleaners..... EDR Proprietary Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

FEDERAL RECORDS

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.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>YEOMAN CREEK LANDFILL</i>		<i>1/2 - 1 E</i>	<i>0</i>	<i>10</i>

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.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>WAUKEGAN AIRPORT WATERMAIN EXT</i>	<i>1700 MCAREE ROAD</i>	<i>0 - 1/8 S</i>	<i>B5</i>	<i>18</i>

EXECUTIVE SUMMARY

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.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
YEOMAN CREEK LANDFILL		1/2 - 1 E	0	10

STATE AND LOCAL RECORDS

SHWS: The State Hazardous Waste Sites 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. The data come from the Illinois Environmental Protection Agency's Category List.

A review of the SHWS list, as provided by EDR, and dated 03/27/2006 has revealed that there is 1 SHWS site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
WAUKEGAN MUNICIPAL LNDFL #2	ADELPHI AND BURRIS STRE	1/2 - 1 NW	9	22

CAT: Illinois Category List.

A review of the CAT list, as provided by EDR, and dated 06/01/1997 has revealed that there is 1 CAT site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
WAUKEGAN MUNICIPAL LANDFILL #2 Facility Type: NOTICE RESPONSE ACTION SITE		1/2 - 1 N	8	22

NIPC: NIPC is an inventory of active and inactive solid waste disposal sites, based on state, local government and historical archive data. Included are numerous sites that previously had never been identified largely because, prior to 1971, there was no obligation to register such sites. The data come from the Northeastern Illinois Planning Commission's Solid Waste Landfill Inventory.

A review of the IL NIPC list, as provided by EDR, and dated 08/01/1988 has revealed that there is 1 IL NIPC site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
T K DISPOSAL INC #1		1/4 - 1/2NNE	7	22

EXECUTIVE SUMMARY

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 Illinois State Fire Marshal's STC Facility List.

A review of the UST list, as provided by EDR, and dated 03/07/2006 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

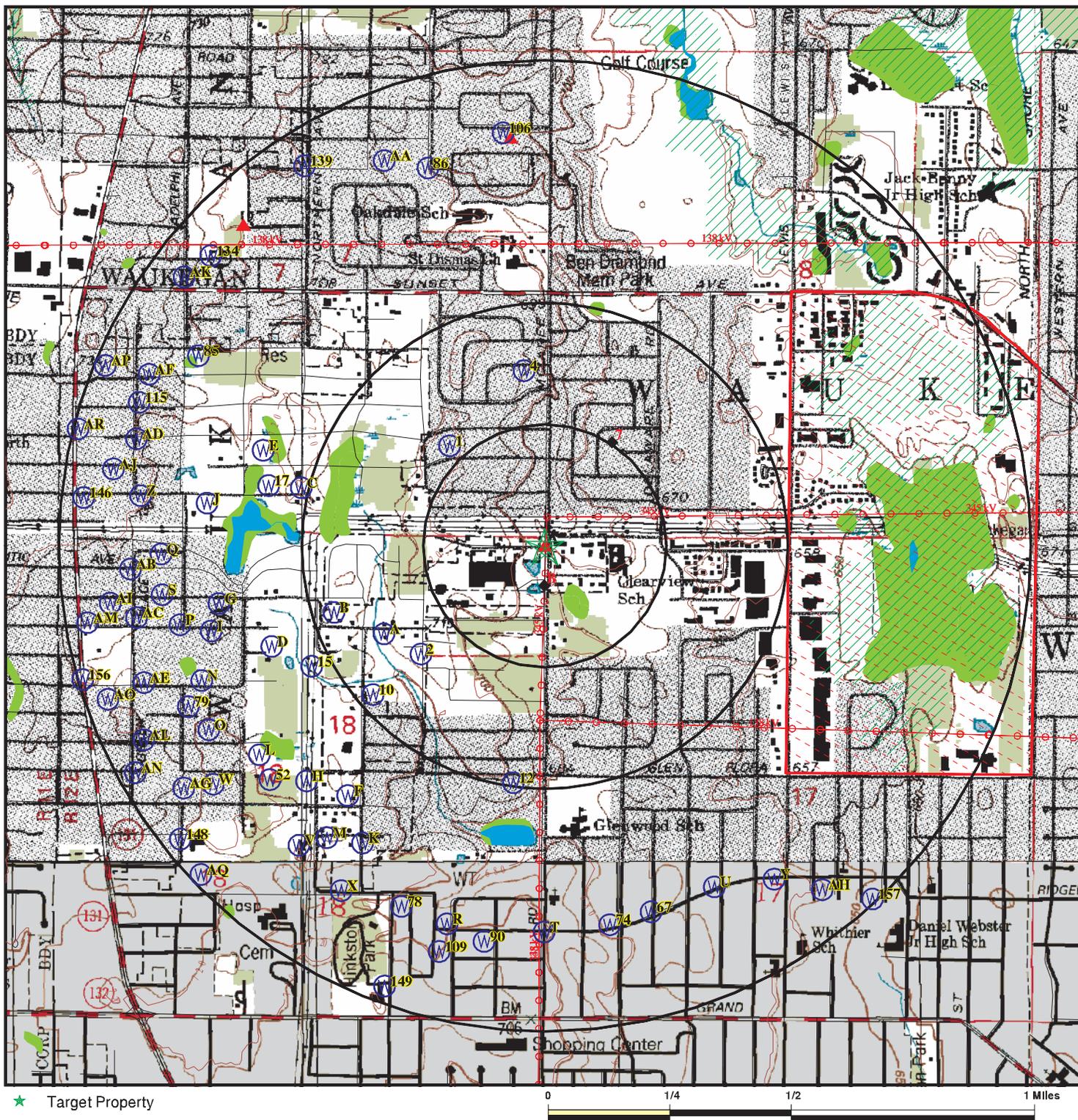
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
PUBLIC WORKS FACILITY	1700 MCAREE ROAD	0 - 1/8 S	B6	18

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

<u>Site Name</u>	<u>Database(s)</u>
COMMONWEALTH EDISON - WAUKEGAN	FINDS, FTTS
WAUKEGAN MUNI #2	CERC-NFRAP
PORT DIST LDFL	CERC-NFRAP
WAUKEGAN LDFL	CERC-NFRAP
WAUKEGAN REGIONAL AIRPORT	LUST
WHITMORE'S WRECKER SERVICE	LUST
CITY OF WAUKEGAN WATER PLANT	RCRA-SQG, FINDS
WAUKEGAN STEEL SALES	RCRA-SQG, FINDS
WASTE MANAGEMENT INC IND SERV	FINDS, RCRA-LQG
INTAKE CANAL FOR WAUKEGAN STATION 10 GREENWOOD AVE	ERNS
WAUKEGAN IL(HARBOR)	ERNS
WAUKEGAN HARBOR 55 SOUTH HARBOR PLACE	ERNS
WAUKEGAN GENERATING STATION 10 GREENWOOD AVENUE	ERNS
WAUKEGAN HARBOR S	ERNS
WAUKEGAN HARBOR	ERNS
40 OF WAUKEGAN HARBOR	ERNS
WAUKEGAN COKE PLANT	FINDS
WAUKEGAN EAST & WEST H S-DIST 60	FINDS
WAUKEGAN GAS STATION	FINDS
NSSD WAUKEGAN STP	FINDS
WAUKEGAN DRY CLEANERS	FINDS
WAUKEGAN TIRE	FINDS
WAUKEGAN, CITY OF	FINDS
WAUKEGAN RENTAL	FINDS
WAUKEGAN HHW COLLECTION	FINDS
WAUKEGAN TAR PITS	FINDS
WAUKEGAN	FINDS
WAUKEGAN CLEANUP 2	FINDS
WAUKEGAN MUNICIPAL 1	FINDS
WAUKEGAN DRY CLEANERS	US BROWNFIELDS
WAUKEGAN GAS STATION	US BROWNFIELDS
WAUKEGAN/MUNICIPAL NO. 1	ODI
WAUKEGAN/YEOMAN CREEK	ODI
WAUKEGAN DRY CLEANERS	BROWNFIELDS

OVERVIEW MAP - 01714247.116r



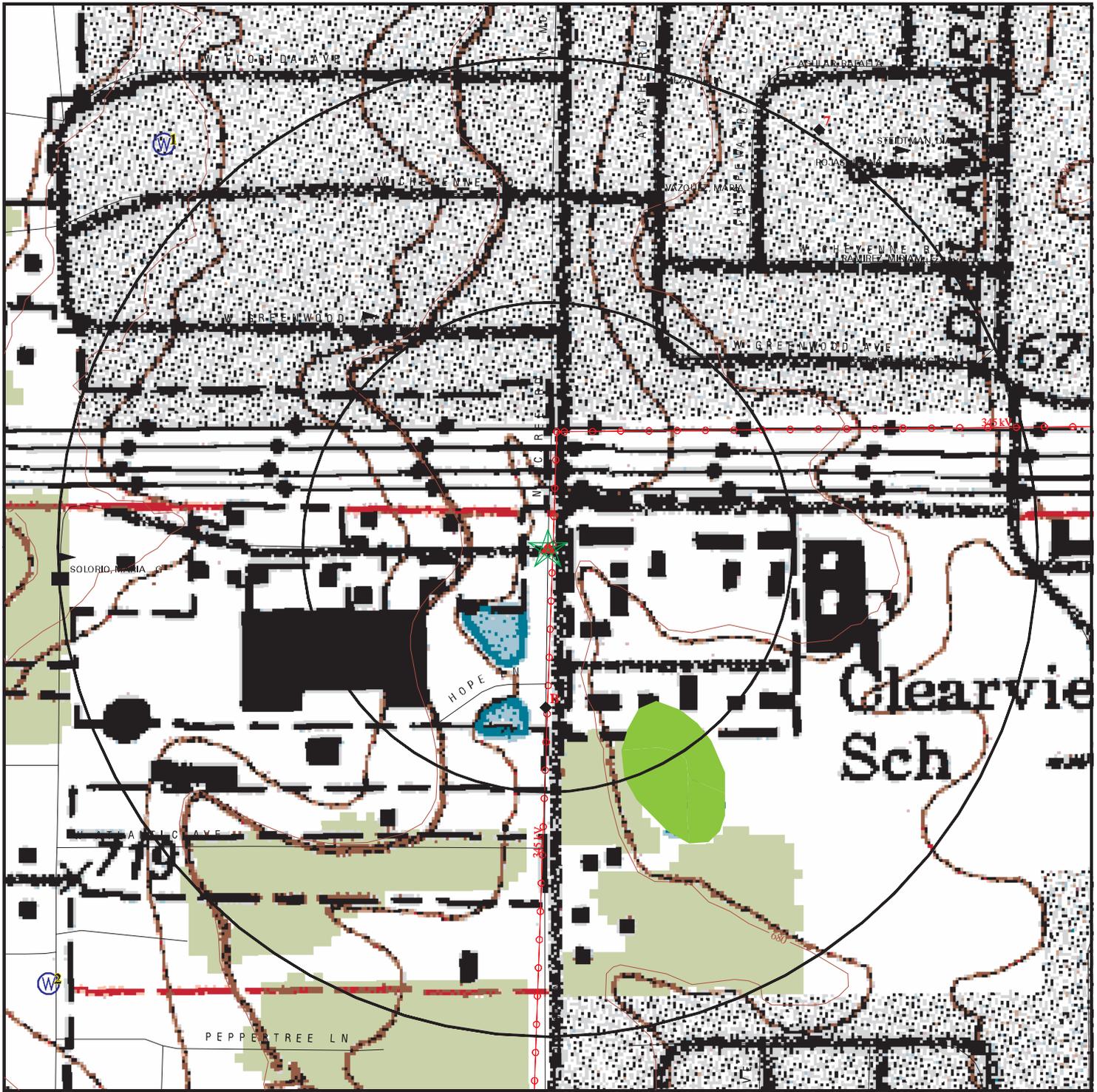
- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- ▨ National Priority List Sites
- ▨ Landfill Sites
- ▨ Dept. Defense Sites
- ▨ Indian Reservations BIA
- ⚡ Power transmission lines
- ⚡ Oil & Gas pipelines
- ▨ 100-year flood zone
- ▨ 500-year flood zone
- ▨ National Wetland Inventory

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Waukegan AFRC, IL
 ADDRESS: 1721 NORTH MCAREE ROAD
 WAUKEGAN IL 60085
 LAT/LONG: 42.3844 / 87.8652

CLIENT: CH2M Hill
 CONTACT: Mary Beth Jacques
 INQUIRY #: 01714247.116r
 DATE: July 12, 2006

DETAIL MAP - 01714247.116r



- ★ 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
- ⚡ Power transmission lines
- ⚡ Oil & Gas pipelines
- ▨ 100-year flood zone
- ▨ 500-year flood zone
- National Wetland Inventory

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SITE NAME: Waukegan AFRC, IL
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 WAUKEGAN IL 60085
 LAT/LONG: 42.3844 / 87.8652

CLIENT: CH2M Hill
 CONTACT: Mary Beth Jacques
 INQUIRY #: 01714247.116r
 DATE: July 12, 2006

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>FEDERAL RECORDS</u>								
NPL		1.000	0	0	0	1	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	0	0	0	NR	NR	0
CERC-NFRAP		0.500	0	0	0	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
RCRA TSD		0.500	0	0	0	NR	NR	0
RCRA Lg. Quan. Gen.		0.250	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	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	1	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
<u>STATE AND LOCAL RECORDS</u>								
State Haz. Waste		1.000	0	0	0	1	NR	1
CAT		1.000	0	0	0	1	NR	1
State Landfill		0.500	0	0	0	NR	NR	0
IL NIPC		0.500	0	0	1	NR	NR	1
LUST	X	0.500	0	0	0	NR	NR	0
UST	X	0.250	1	0	NR	NR	NR	1
ENG CONTROLS		0.500	0	0	0	NR	NR	0
Inst Control		0.500	0	0	0	NR	NR	0
SRP		0.500	0	0	0	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
IMPDMNT		0.500	0	0	0	NR	NR	0
BROWNFIELDS		0.500	0	0	0	NR	NR	0
AIRS		TP	NR	NR	NR	NR	NR	0
<u>TRIBAL RECORDS</u>								
INDIAN RESERV		1.000	0	0	0	0	NR	0

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Target Property</u>	<u>Search Distance (Miles)</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
<u>EDR PROPRIETARY RECORDS</u>								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0
EDR Historical Auto Stations		TP	NR	NR	NR	NR	NR	0
EDR Historical Cleaners		TP	NR	NR	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

A1 **86TH ARMY RESERVE COMMAND**
Target **1721 NORTH MCAREE RD.**
Property **WAUKEGAN, IL 60085**

LUST **S104523001**
N/A

Site 1 of 4 in cluster A

Actual:
687 ft.

LUST:
 Incident Num : 941954
 IL EPA Id : 0971905252
 IEMA Date : 1994-08-26 00:00:00
 PRP Name : U.S. Army
 PRP Contact : Dave Jennings
 PRP Address : 7402 West Roosevelt Rd.
 Forest Park, IL 60130
 PRP Phone : Not reported
 Non LUST Determination Letter : Not reported
NFA/NFR Letter : **1996-01-18**
 Site Classification : Not reported
 Project Manager : Davison
 Project Manager Phone: Not reported
 Email : Not reported
 Section 57.59(g) : 732
 Section 57.59(g) Letter : Not reported
 Product - Gasoline: False
 Product - Unleaded Gas: False
 Product - Deisel: False
 Product - Fuel Oil: False
 Product - Jet Fuel: False
 Product - Used Oil: False
 Product - Non Petro: False
 Product - Other Petro: True
 20 Report Received : 1994-09-15
 45 Report Received : 1995-08-16
 NFR Date Recorded : Not reported

A2 **ARMED FORCES RESERV CENTER**
Target **1721 N MCAREE RD**
Property **WAUKEGAN, IL 60085**

UST **U002113109**
N/A

Site 2 of 4 in cluster A

Actual:
687 ft.

UST:
 Facility ID: 2033756
 Facility ID 2 : 51170370
 Status: Closed
 Owner Name: U.S. Army Reserve - 88th RSC
 Owner Address: 506 Roeder Circle
 Fort Snelling, MN 55111
 Contact: Tortorici Mike
 Phone #: (708) 662-1125
 Tank Status: Removed
 Tank Last Used: 1/1/1902 00:00:00
 Enforcement: No
 Fee Owed: No
 Tank Number: 2
 Tank Capacity: 1500
 Tank Age: 40
 Tank Red Tag: No
 Tank Substance: Heating Oil
 1998 green decal: None
 Permit Number: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

ARMED FORCES RESERV CENTER (Continued)

U002113109

Permit Expires: Not reported

Facility ID: 2033756
Facility ID 2 : 51170370
Status: Closed
Owner Name: U.S. Army Reserve - 88th RSC
Owner Address: 506 Roeder Circle
Fort Snelling, MN 55111

Contact: Tortorici Mike
Phone #: (708) 662-1125
Tank Status: Removed
Tank Last Used: 1/1/1902 00:00:00
Enforcement: No
Fee Owed: No
Tank Number: 3
Tank Capacity: 550
Tank Age: 40
Tank Red Tag: No
Tank Substance: Heating Oil
1998 green decal: None
Permit Number: Not reported
Permit Expires: Not reported

Facility ID: 2033756
Facility ID 2 : 51170370
Status: Closed
Owner Name: U.S. Army Reserve - 88th RSC
Owner Address: 506 Roeder Circle
Fort Snelling, MN 55111

Contact: Tortorici Mike
Phone #: (708) 662-1125
Tank Status: Removed
Tank Last Used: 1/1/1902 00:00:00
Enforcement: No
Fee Owed: No
Tank Number: 4
Tank Capacity: 6000
Tank Age: 40
Tank Red Tag: No
Tank Substance: Heating Oil
1998 green decal: None
Permit Number: Not reported
Permit Expires: Not reported

Facility ID: 2033756
Facility ID 2 : 51170370
Status: Closed
Owner Name: U.S. Army Reserve - 88th RSC
Owner Address: 506 Roeder Circle
Fort Snelling, MN 55111

Contact: Tortorici Mike
Phone #: (708) 662-1125
Tank Status: Removed
Tank Last Used: 1/1/1902 00:00:00
Enforcement: No
Fee Owed: No
Tank Number: 5

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

ARMED FORCES RESERV CENTER (Continued)

U002113109

Tank Capacity: 3000
Tank Age: 40
Tank Red Tag: No
Tank Substance: Heating Oil
1998 green decal: None
Permit Number: Not reported
Permit Expires: Not reported

A3 U S ARMY RESERVE CTR
Target 1721 N MCAREE RD
Property WAUKEGAN, IL 60085

RCRA-SQG 1004692598
FINDS IL0000802496

Site 3 of 4 in cluster A

**Actual:
687 ft.**

RCRAInfo:
Owner: 86TH U S ARMY RESERVE COMMAND
(708) 209-2597
EPA ID: IL0000802496
Contact: MIKE TORTORICI
(708) 662-1125
Classification: Conditionally Exempt Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
ACES (Illinois - Agency Compliance And Enforcement System) is the Illinois EPA Project to facilitate the permitting operations
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.

A4 US ARMY RESERVE CENTER
Target 1721 N MCAREE RD
Property WAUKEGAN, IL 60085

UST U002112932
N/A

Site 4 of 4 in cluster A

**Actual:
687 ft.**

UST:
Facility ID: 2033540
Facility ID 2 : 157932714
Status: Merged
Owner Name: Hq Ft Mmccoy
Owner Address: 2160 Sj St Afzr-Pe-P
Fort McCoy, WI 65656
Contact: Tortorici Mike
Phone #: (708) 662-1125
Tank Status: Permanently out of use
Tank Last Used: 1/1/1901 00:00:00
Enforcement: No
Fee Owed: No
Tank Number: 1
Tank Capacity: 5000
Tank Age: 41

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

US ARMY RESERVE CENTER (Continued)

U002112932

Tank Red Tag: No
Tank Substance: Diesel
1998 green decal: None
Permit Number: Not reported
Permit Expires: Not reported

Facility ID: 2033540
Facility ID 2 : 157932714
Status: Merged
Owner Name: Hq Ft Mmccoy
Owner Address: 2160 Sj St Afzr-Pe-P
Fort McCoy, WI 65656

Contact: Tortorici Mike
Phone #: (708) 662-1125
Tank Status: Permanently out of use
Tank Last Used: 1/1/1901 00:00:00
Enforcement: No
Fee Owed: No
Tank Number: 2
Tank Capacity: 1000
Tank Age: 41
Tank Red Tag: No
Tank Substance: Diesel
1998 green decal: None
Permit Number: Not reported
Permit Expires: Not reported

Facility ID: 2033540
Facility ID 2 : 157932714
Status: Merged
Owner Name: Hq Ft Mmccoy
Owner Address: 2160 Sj St Afzr-Pe-P
Fort McCoy, WI 65656

Contact: Tortorici Mike
Phone #: (708) 662-1125
Tank Status: Permanently out of use
Tank Last Used: 1/1/1901 00:00:00
Enforcement: No
Fee Owed: No
Tank Number: 3
Tank Capacity: 1000
Tank Age: 41
Tank Red Tag: No
Tank Substance: Diesel
1998 green decal: None
Permit Number: Not reported
Permit Expires: Not reported

Facility ID: 2033540
Facility ID 2 : 157932714
Status: Merged
Owner Name: Hq Ft Mmccoy
Owner Address: 2160 Sj St Afzr-Pe-P
Fort McCoy, WI 65656

Contact: Tortorici Mike
Phone #: (708) 662-1125
Tank Status: Permanently out of use

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

US ARMY RESERVE CENTER (Continued)

U002112932

Tank Last Used: 1/1/1901 00:00:00
 Enforcement: No
 Fee Owed: No
 Tank Number: 4
 Tank Capacity: 1000
 Tank Age: 41
 Tank Red Tag: No
 Tank Substance: Diesel
 1998 green decal: None
 Permit Number: Not reported
 Permit Expires: Not reported

Facility ID: 2033540
 Facility ID 2 : 157932714
 Status: Merged
 Owner Name: Hq Ft Mmccoy
 Owner Address: 2160 Sj St Afzr-Pe-P
 Fort McCoy, WI 65656
 Contact: Tortorici Mike
 Phone #: (708) 662-1125
 Tank Status: Permanently out of use
 Tank Last Used: 1/1/1901 00:00:00
 Enforcement: No
 Fee Owed: No
 Tank Number: 5
 Tank Capacity: 1000
 Tank Age: 41
 Tank Red Tag: No
 Tank Substance: Diesel
 1998 green decal: None
 Permit Number: Not reported
 Permit Expires: Not reported

**NPL
 Region
 East
 1/2-1
 2647 ft.**

**YEOMAN CREEK LANDFILL
 WAUKEGAN, IL 60087**

**CERCLIS 1000295398
 FINDS ILD980500102
 NPL
 ROD
 US ENG CONTROLS**

CERCLIS Classification Data:

Federal Facility: Not a Federal Facility
 Non NPL Status: Not reported
 NPL Status: Currently on the Final NPL
 Contact: RALPH DOLLHOPF Contact Tel: (734) 692-7682
 Contact Title: Not reported
 Contact: MATTHEW MANKOWSKI Contact Tel: (312) 886-1842
 Contact Title: Not reported
 Contact: MATTHEW OHL Contact Tel: (312) 886-4442
 Contact Title: Not reported

Site Description: The Yeoman Creek Landfill Site is located between Sunset Avenue/Gulf Road on the north, Glen Flora Avenue on the south, Lewis Avenue on the west, and Western Avenue on the east, in the City of Waukegan, Illinois. The landfilled area covers approximately 60 acres. The Site is adjacent to a large wetland, and residential and commercial developments, including single family residences, apartment buildings, a nursing home, a doctor's office, a shopping center, and restaurants. Yeoman Creek flows through the Site and into the Waukegan River 1.75 miles downstream from the Site. The Waukegan River flows into Lake Michigan approximately 2.25 miles downstream from the site. The Site

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

YEOMAN CREEK LANDFILL (Continued)

1000295398

can be divided into two discontinuous portions. The portion north of the power lines, which run east/west midway through the Site, and Greenwood Avenue will be referred to as the Yeoman Creek Landfill portion of the Site, and the portion south of the power lines and Greenwood Avenue will be referred to as the Edwards Field Landfill portion of the Site. The Yeoman Creek Landfill portion includes an estimated 49.2 acres of landfilled area, and the Edwards Field Landfill portion includes an estimated 11.9 acres of landfilled area. These portions of the Site had the same owner, operator, and operational procedures, as well as being in close proximity to each other. The landfill was largely constructed within wetlands and also within the flood plain of Yeoman Creek. The landfill is still partially within the floodway and floodplain of Yeoman Creek. The landfill is fairly shallow with an estimated maximum depth of 9 feet. The total volume of landfilled waste has been estimated to be over one million cubic yards. Wastes deposited at the Site were predominantly typical, municipal solid wastes, but wastes from industrial and commercial facilities were also disposed of at the Site. This includes waste oil, which likely contains high concentrations of polychlorinated biphenyls (PCBs), spent solvents, foundry sand, and other wastes. There is no firm evidence to suggest hazardous wastes were disposed of at the Site. The landfill is connected to permeable portions of the shallow ground water, shallow permeable formations are connected to the deeper outwash aquifer at the Site, and most of the landfill leachate either seeps into the lower outwash aquifer or Yeoman Creek. The shallow aquifer is discontinuous at the Site; so there may be little communication between the shallow aquifer and the contaminated shallow ground water at the Site. The flow direction in the shallow and deep outwash is primarily to the east toward Lake Michigan. The distribution of chloride concentration at the Site appears to confirm that the Site is impacting the fluviolacustrine sands and the deep outwash aquifer. It is estimated that 88% of the Yeoman Creek Landfill and 69% of the Edwards Field Landfill is presently under the water table. Ground water is not used in the vicinity of the Site, and a City of Waukegan ordinance requires use of the municipal water system for residential water within the City. Yeoman Creek is a gaining stream along the Yeoman Creek Landfill portion, but appears to be a losing stream south of the Yeoman Creek Landfill portion. Landfilled wastes are present within a few feet of Yeoman Creek along the Yeoman Creek portion, including within approximately 10 feet of Yeoman Creek along an estimated 600 feet of the total of 3200 feet of the Yeoman Creek Landfill portion bordering Yeoman Creek.

CERCLIS Assessment History:

Assessment:	DISCOVERY	Completed:	01/01/1970
Assessment:	PRELIMINARY ASSESSMENT	Completed:	02/01/1984
Assessment:	SITE INSPECTION	Completed:	09/05/1985
Assessment:	HRS PACKAGE	Completed:	07/10/1986
Assessment:	NPL RP SEARCH	Completed:	02/15/1987
Assessment:	NON-NPL PRP SEARCH	Completed:	02/15/1987
Assessment:	PROPOSAL TO NPL	Completed:	06/24/1988
Assessment:	FINAL LISTING ON NPL	Completed:	03/31/1989
Assessment:	REMOVAL ASSESSMENT	Completed:	07/20/1989
Assessment:	RI/FS NEGOTIATIONS	Completed:	09/30/1989
Assessment:	CONSENT AGREEMENT (ADMINISTRATIVE)	Completed:	12/22/1989
Assessment:	ADMIN ORDER ON CONSENT	Completed:	12/22/1989

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

YEOMAN CREEK LANDFILL (Continued)

1000295398

Assessment:	REMOVAL ASSESSMENT	Completed:	04/30/1991
Assessment:	PRP REMOVAL	Completed:	12/30/1994
Assessment:	PRP REMOVAL	Completed:	06/19/1995
Assessment:	PRP RI/FS	Completed:	09/30/1996
Assessment:	RECORD OF DECISION	Completed:	09/30/1996
Assessment:	STATE SUPPORT AGENCY COOP AGREEMENT	Completed:	12/30/1997
Assessment:	UNILATERAL ADMIN ORDER	Completed:	04/28/1998
Assessment:	Lodged By DOJ	Completed:	11/05/1998
Assessment:	RD/RA NEGOTIATIONS	Completed:	01/21/1999
Assessment:	Lodged By DOJ	Completed:	02/04/1999
Assessment:	CONSENT DECREE	Completed:	02/05/1999
Assessment:	Lodged By DOJ	Completed:	03/24/1999
Assessment:	CONSENT DECREE	Completed:	04/07/1999
Assessment:	CONSENT DECREE	Completed:	06/08/1999
Assessment:	PRP REMOVAL	Completed:	04/13/2000
Assessment:	PRP RD	Completed:	10/04/2001

CERCLIS Site Status:

Not reported

CERCLIS Alias Name(s):

- YEOMAN CREEK
- YEOMAN CREEK LDFL
- YEOMAN CREEK LDFL
- YEOMAN CREEK LDFL
- EDWARD'S FIELD LANDFILL
- YEOMAN CREEK LANDFILL
- YEOMAN CREEK LANDFILL

US Engineering Control Sites:

EPA ID: ILD980500102
 Site ID: 0500574
 EPA Region: 05
 County: LAKE
 Event Code : Not reported
 Actual Date: Not reported

Action ID: 001
 Action Name: PRP RA
 Action Completion date: / /
 Planned Completion date: 12/31/2006
 Operable Unit: 01
 Contaminated Media: Air
 Contam. Media num.: 5275150.00000
 Engineering Control: Access Restriction, Fencing

Action ID: 001
 Action Name: PRP RA
 Action Completion date: / /
 Planned Completion date: 12/31/2006
 Operable Unit: 01
 Contaminated Media: Soil
 Contam. Media num.: 5275152.00000
 Engineering Control: Cap

Action ID: 001
 Action Name: PRP RA
 Action Completion date: / /
 Planned Completion date: 12/31/2006
 Operable Unit: 01
 Contaminated Media: Soil

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

YEOMAN CREEK LANDFILL (Continued)

1000295398

Contam. Media num.: 5275152.00000
Engineering Control: Access Restriction, Fencing

Action ID: 001
Action Name: PRP RA
Action Completion date: / /
Planned Completion date: 12/31/2006
Operable Unit: 01
Contaminated Media: Leachate
Contam. Media num.: 5275153.00000
Engineering Control: Access Restriction, Fencing

Action ID: 001
Action Name: PRP RA
Action Completion date: / /
Planned Completion date: 12/31/2006
Operable Unit: 01
Contaminated Media: Sediment
Contam. Media num.: 5275154.00000
Engineering Control: Cap

Action ID: 001
Action Name: PRP RA
Action Completion date: / /
Planned Completion date: 12/31/2006
Operable Unit: 01
Contaminated Media: Sediment
Contam. Media num.: 5275154.00000
Engineering Control: Access Restriction, Fencing

Action ID: 001
Action Name: PRP RA
Action Completion date: / /
Planned Completion date: 12/31/2006
Operable Unit: 01
Contaminated Media: Groundwater
Contam. Media num.: 5275155.00000
Engineering Control: Access Restriction, Fencing

Action ID: 001
Action Name: RA On-Site Construct Start
Action Completion date: 02/28/2002
Planned Completion date: 02/01/2002
Operable Unit: 01
Contaminated Media: Air
Contam. Media num.: 5275369.00000
Engineering Control: Access Restriction, Fencing

Action ID: 001
Action Name: RA On-Site Construct Start
Action Completion date: 02/28/2002
Planned Completion date: 02/01/2002
Operable Unit: 01
Contaminated Media: Soil
Contam. Media num.: 5275371.00000
Engineering Control: Cap

Action ID: 001
Action Name: RA On-Site Construct Start
Action Completion date: 02/28/2002
Planned Completion date: 02/01/2002

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

YEOMAN CREEK LANDFILL (Continued)

1000295398

Operable Unit: 01
Contaminated Media: Soil
Contam. Media num.: 5275371.00000
Engineering Control: Access Restriction, Fencing

Action ID: 001
Action Name: RA On-Site Construct Start
Action Completion date: 02/28/2002
Planned Completion date: 02/01/2002
Operable Unit: 01
Contaminated Media: Leachate
Contam. Media num.: 5275372.00000
Engineering Control: Access Restriction, Fencing

Action ID: 001
Action Name: RA On-Site Construct Start
Action Completion date: 02/28/2002
Planned Completion date: 02/01/2002
Operable Unit: 01
Contaminated Media: Sediment
Contam. Media num.: 5275373.00000
Engineering Control: Cap

Action ID: 001
Action Name: RA On-Site Construct Start
Action Completion date: 02/28/2002
Planned Completion date: 02/01/2002
Operable Unit: 01
Contaminated Media: Sediment
Contam. Media num.: 5275373.00000
Engineering Control: Access Restriction, Fencing

Action ID: 001
Action Name: RA On-Site Construct Start
Action Completion date: 02/28/2002
Planned Completion date: 02/01/2002
Operable Unit: 01
Contaminated Media: Groundwater
Contam. Media num.: 5275374.00000
Engineering Control: Access Restriction, Fencing

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/30/1996
Planned Completion date: 09/30/1996
Operable Unit: 01
Contaminated Media: Air
Contam. Media num.: 5270185.00000
Engineering Control: Access Restriction, Fencing

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/30/1996
Planned Completion date: 09/30/1996
Operable Unit: 01
Contaminated Media: Soil
Contam. Media num.: 5270187.00000
Engineering Control: Cap

Action ID: 001
Action Name: RECORD OF DECISION

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

YEOMAN CREEK LANDFILL (Continued)

1000295398

Action Completion date: 09/30/1996
Planned Completion date: 09/30/1996
Operable Unit: 01
Contaminated Media: Soil
Contam. Media num.: 5270187.00000
Engineering Control: Access Restriction, Fencing

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/30/1996
Planned Completion date: 09/30/1996
Operable Unit: 01
Contaminated Media: Leachate
Contam. Media num.: 5270188.00000
Engineering Control: Access Restriction, Fencing

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/30/1996
Planned Completion date: 09/30/1996
Operable Unit: 01
Contaminated Media: Sediment
Contam. Media num.: 5270190.00000
Engineering Control: Cap

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/30/1996
Planned Completion date: 09/30/1996
Operable Unit: 01
Contaminated Media: Sediment
Contam. Media num.: 5270190.00000
Engineering Control: Access Restriction, Fencing

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/30/1996
Planned Completion date: 09/30/1996
Operable Unit: 01
Contaminated Media: Groundwater
Contam. Media num.: 5270196.00000
Engineering Control: Access Restriction, Fencing

NPL:

EPA ID: ILD980500102
Region: 05
Federal: General
Final Date: 03/31/1989

EPA ID: ILD980500102
Region: 05
Federal: General
Final Date: 03/31/1989

Category Details:

Site ID: Not reported
NPL Status: Currently on the Final NPL
Categ. Description: Depth To Aquifer-> 10 And <= 25 Feet
Categ. Value: 25
Site ID: Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

MAP FINDINGS

YEOMAN CREEK LANDFILL (Continued)

EDR ID Number
 EPA ID Number

Database(s)

1000295398

NPL Status:	Currently on the Final NPL
Categ. Description:	Distance To Nearest Population-> 0 And <= 1/4 Mile
Categ. Value:	200
Site Details:	
Site Name:	YEOMAN CREEK LANDFILL
Site Status:	Final
Status Date:	03/31/1989
Site City:	WAUKEGAN
Site State:	IL
Federal Site:	Not a Federal Facility
HRS Score:	33.23
GW Score:	42.65
SW Score:	38.53
Air Score:	Not reported
Soil Score:	Not reported
DC Score:	62.50
FE Score:	Not reported
Substance Details:	
Site ID:	Not reported
NPL Status:	Currently on the Final NPL
Substance ID:	A009
CAS #:	207-08-9
Substance:	BENZO(K)FLUORANTHENE
Pathway:	SURFACE WATER PATHWAY
Scoring:	2
Site ID:	Not reported
NPL Status:	Currently on the Final NPL
Substance ID:	A046
CAS #:	1336-36-3
Substance:	POLYCHLORINATED BIPHENYLS
Pathway:	GROUND WATER PATHWAY
Scoring:	3
Site ID:	Not reported
NPL Status:	Currently on the Final NPL
Substance ID:	C448
CAS #:	205-99-2
Substance:	BENZOFLUORANTHENE, 3,4-
Pathway:	SURFACE WATER PATHWAY
Scoring:	2
Site ID:	Not reported
NPL Status:	Currently on the Final NPL
Substance ID:	C635
CAS #:	12672-29-6
Substance:	AROCLOR 1248
Pathway:	SURFACE 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:	GROUND WATER PATHWAY
Scoring:	3
Site ID:	Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

YEOMAN CREEK LANDFILL (Continued)

EDR ID Number
EPA ID Number

Database(s)

1000295398

NPL Status: Currently on the Final NPL
Substance ID: Not reported
CAS #: Not reported
Substance: Not reported
Pathway: Not reported
Scoring: Not reported

Summary Details:

" Conditions at proposal (June 24, 1988): Yeoman Creek Landfill covers 14 acres southeast of the intersection of Sunset Avenue and Lewis Avenue in Waukegan, Lake County, Illinois. Apartments and businesses surround the site. TIK City Disposal and National Disposal Contractors operated the landfill during 1959-69. No information is available on types or quantities of wastes accepted. When the landfill stopped accepting waste, the operators covered it with 3 to 6 feet of soil and seeded it. Currently, the site is owned and maintained by Waukegan School District #60. Sediments of Yeoman Creek at the landfill and farther downstream at Yeoman Park contain PCBs and other organic chemicals, according to tests conducted by EPA in April 1985. Yeoman Creek is a tributary of the Waukegan River, which feeds into Lake Michigan. Over 67,000 persons in Waukegan are supplied with drinking water from a Lake Michigan intake 10,000 feet downstream of contaminants found in Yeoman Creek at Yeoman Park. The landfill has no liner, and the underlying soils are permeable, conditions that facilitate movement of contaminants into ground water. About 1,500 people draw drinking water from private wells within 3 miles of the site. The nearest well is 2,000 feet away. No municipal supplies are available in the area served by the wells. The landfill is unfenced and unguarded. Leachate has been observed seeping into Yeoman Creek during State inspections. Thus, people and animals in the area can come into direct contact with hazardous substances. Status (March 31, 1989): EPA is considering various alternatives for the site."

Site Status Details:

NPL Status: Final
Proposed Date: 06/24/1988
Final Date: 03/31/1989
Deleted Date: Not reported

ROD:

Full-text of USEPA Record of Decision(s) is available from EDR.

FINDS:

Other Pertinent Environmental Activity Identified at Site:

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

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 its 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.

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

B5 **WAUKEGAN AIRPORT WATERMAIN EXT**
South **1700 MCAREE ROAD**
< 1/8 **WAUKEGAN, IL 60085**
432 ft.

FINDS **1000268434**
RCRA-LQG **ILD981795180**

Site 1 of 2 in cluster B

Relative:
Lower

RCRAInfo:
 Owner: WAUKEGAN CITY OF
 (312) 555-1212
 EPA ID: ILD981795180
 Contact: BILL HOPKINS
 (312) 360-0944

 Classification: Large Quantity Generator
 TSDF Activities: Not reported

 Violation Status: No violations found

Actual:
684 ft.

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.

B6 **PUBLIC WORKS FACILITY**
South **1700 MCAREE ROAD**
< 1/8 **WAUKEGAN, IL 60085**
432 ft.

UST **U000177699**
N/A

Site 2 of 2 in cluster B

Relative:
Lower

UST:
 Facility ID: 2024727
 Facility ID 2 : 596946992
 Status: Active
 Owner Name: Waukegan City Of
 Owner Address: 410 Robert V. Sabonjian
 Waukegan, IL 60085
 Contact: Bill Hopkins
 Phone #: (847) 625-6831
 Tank Status: Currently in use
 Tank Last Used: Not reported
 Enforcement: No
 Fee Owed: No
 Tank Number: 1
 Tank Capacity: 10000
 Tank Age: 19
 Tank Red Tag: No
 Tank Substance: Diesel
 1998 green decal: E000190
 Permit Number: Not reported
 Permit Expires: Not reported

 Facility ID: 2024727
 Facility ID 2 : 596946992
 Status: Active
 Owner Name: Waukegan City Of
 Owner Address: 410 Robert V. Sabonjian
 Waukegan, IL 60085
 Contact: Bill Hopkins

Actual:
684 ft.

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

PUBLIC WORKS FACILITY (Continued)

U000177699

Phone #: (847) 625-6831
Tank Status: Currently in use
Tank Last Used: Not reported
Enforcement: No
Fee Owed: No
Tank Number: 2
Tank Capacity: 10000
Tank Age: 19
Tank Red Tag: No
Tank Substance: Gasoline
1998 green decal: E000190
Permit Number: Not reported
Permit Expires: Not reported

Facility ID: 2024727
Facility ID 2 : 596946992
Status: Active
Owner Name: Waukegan City Of
Owner Address: 410 Robert V. Sabonjian
Waukegan, IL 60085

Contact: Bill Hopkins
Phone #: (847) 625-6831
Tank Status: Currently in use
Tank Last Used: Not reported
Enforcement: No
Fee Owed: No
Tank Number: 3
Tank Capacity: 10000
Tank Age: 19
Tank Red Tag: No
Tank Substance: Gasoline
1998 green decal: E000190
Permit Number: Not reported
Permit Expires: Not reported

Facility ID: 2024727
Facility ID 2 : 596946992
Status: Active
Owner Name: Waukegan City Of
Owner Address: 410 Robert V. Sabonjian
Waukegan, IL 60085

Contact: Bill Hopkins
Phone #: (847) 625-6831
Tank Status: Currently in use
Tank Last Used: Not reported
Enforcement: No
Fee Owed: No
Tank Number: 4
Tank Capacity: 1000
Tank Age: 19
Tank Red Tag: No
Tank Substance: Hydraulic Oil
1998 green decal: E000190
Permit Number: Not reported
Permit Expires: Not reported

Facility ID: 2024727

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Database(s)
EPA ID Number
EDR ID Number

PUBLIC WORKS FACILITY (Continued)

U000177699

Facility ID 2 : 596946992
Status: Active
Owner Name: Waukegan City Of
Owner Address: 410 Robert V. Sabonjian
Waukegan, IL 60085
Contact: Bill Hopkins
Phone #: (847) 625-6831
Tank Status: Currently in use
Tank Last Used: Not reported
Enforcement: No
Fee Owed: No
Tank Number: 5
Tank Capacity: 1000
Tank Age: 19
Tank Red Tag: No
Tank Substance: Motor Oil
1998 green decal: E000190
Permit Number: Not reported
Permit Expires: Not reported

Facility ID: 2024727
Facility ID 2 : 596946992
Status: Active
Owner Name: Waukegan City Of
Owner Address: 410 Robert V. Sabonjian
Waukegan, IL 60085
Contact: Bill Hopkins
Phone #: (847) 625-6831
Tank Status: Currently in use
Tank Last Used: Not reported
Enforcement: No
Fee Owed: No
Tank Number: 6
Tank Capacity: 1000
Tank Age: 19
Tank Red Tag: No
Tank Substance: Automatic Transmission Fluid
1998 green decal: E000190
Permit Number: Not reported
Permit Expires: Not reported

Facility ID: 2024727
Facility ID 2 : 596946992
Status: Active
Owner Name: Waukegan City Of
Owner Address: 410 Robert V. Sabonjian
Waukegan, IL 60085
Contact: Bill Hopkins
Phone #: (847) 625-6831
Tank Status: Currently in use
Tank Last Used: Not reported
Enforcement: No
Fee Owed: No
Tank Number: 7
Tank Capacity: 550
Tank Age: 19
Tank Red Tag: No

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

PUBLIC WORKS FACILITY (Continued)

U000177699

Tank Substance: Motor Oil
1998 green decal: E000190
Permit Number: Not reported
Permit Expires: Not reported

Facility ID: 2024727
Facility ID 2 : 596946992
Status: Active
Owner Name: Waukegan City Of
Owner Address: 410 Robert V. Sabonjian
Waukegan, IL 60085

Contact: Bill Hopkins
Phone #: (847) 625-6831
Tank Status: Currently in use
Tank Last Used: Not reported
Enforcement: No
Fee Owed: No
Tank Number: 8
Tank Capacity: 550
Tank Age: 19
Tank Red Tag: No
Tank Substance: Used Oil
1998 green decal: E000190
Permit Number: Not reported
Permit Expires: Not reported

Facility ID: 2024727
Facility ID 2 : 596946992
Status: Active
Owner Name: Waukegan City Of
Owner Address: 410 Robert V. Sabonjian
Waukegan, IL 60085

Contact: Bill Hopkins
Phone #: (847) 625-6831
Tank Status: Currently in use
Tank Last Used: 10/30/1998 00:00:00
Enforcement: No
Fee Owed: No
Tank Number: 9
Tank Capacity: 550
Tank Age: 6
Tank Red Tag: No
Tank Substance: New Oil
1998 green decal: E000190
Permit Number: Not reported
Permit Expires: Not reported

Facility ID: 2024727
Facility ID 2 : 596946992
Status: Active
Owner Name: Waukegan City Of
Owner Address: 410 Robert V. Sabonjian
Waukegan, IL 60085

Contact: Bill Hopkins
Phone #: (847) 625-6831
Tank Status: Currently in use
Tank Last Used: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

PUBLIC WORKS FACILITY (Continued)

U000177699

Enforcement: No
 Fee Owed: No
 Tank Number: 10
 Tank Capacity: 550
 Tank Age: 19
 Tank Red Tag: No
 Tank Substance: Hydraulic Oil
 1998 green decal: E000190
 Permit Number: Not reported
 Permit Expires: Not reported

7
NNE
1/4-1/2
1343 ft.

T K DISPOSAL INC #1
WAUKEGAN, IL

IL NIPC S100790632
N/A

Relative:
Lower

Actual:
675 ft.
8
North
1/2-1
4453 ft.

WAUKEGAN MUNICIPAL LANDFILL #2
WAUKEGAN, IL

CAT S101467255
N/A

Relative:
Higher

CAT:
 Facility ID: Not reported
 Facility Type: **NOTICE RESPONSE ACTION SITE**

Actual:
706 ft.

9
NW
1/2-1
4786 ft.

WAUKEGAN MUNICIPAL LNDFL #2
ADELPHI AND BURRIS STREET
WAUKEGAN, IL 60085

SHWS S104038254
N/A

Relative:
Equal

SHWS:
 Facility ID: 0971900011
 Facility Type: Landfill

Actual:
687 ft.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
WAUKEGAN	1003870037	WAUKEGAN MUNI #2	ALDEPHI ST BURRIS	60085	CERC-NFRAP
WAUKEGAN	1007444043	WAUKEGAN/MUNICIPAL NO. 1	MC AREE AND YORKHOUSE ROADS		ODI
WAUKEGAN	S106526827	WAUKEGAN REGIONAL AIRPORT	322 AVIATION DR.	60087	LUST
WAUKEGAN	1003870301	PORT DIST LDFL	BEECH & MCAREE ROADS	60087	CERC-NFRAP
WAUKEGAN	1008120449	WAUKEGAN COKE PLANT	200 BLOCK SEA HORSE DR	60085	FINDS
WAUKEGAN	1006242033	WAUKEGAN EAST & WEST H S-DIST 60	2325 BROOKSIDE-1110 WASH.	60085	FINDS
WAUKEGAN	1008148573	WAUKEGAN GAS STATION	CLAYTON & SHERIDAN NW COR	60085	FINDS
WAUKEGAN	1004475972	NSSD WAUKEGAN STP	DAHRINGER ROAD	60085	FINDS
WAUKEGAN	1003870038	WAUKEGAN LDFL	FRAZIER AND YEOMAN STREET	60085	CERC-NFRAP
WAUKEGAN	S106526639	WAUKEGAN DRY CLEANERS	21-23 SOUTH GENESSEE	60085	BROWNFIELDS
WAUKEGAN	1009310642	WAUKEGAN DRY CLEANERS	GENESSEE STREET, WASHINGTON STREET	60085	US BROWNFIELDS
WAUKEGAN	1007057409	WAUKEGAN DRY CLEANERS	GENESSEE STREET, WASHINGTON STREET	60085	FINDS
WAUKEGAN	1008148555	WAUKEGAN TIRE	1 N GREEN RAY RD	60085	FINDS
WAUKEGAN	1008120277	WAUKEGAN, CITY OF	GREEN BAY RD & SUNSET AVE	60085	FINDS
WAUKEGAN	1008148566	WAUKEGAN RENTAL	742 GREENWOOD	60085	FINDS
WAUKEGAN	1001228030	WASTE MANAGEMENT INC IND SERV	10 GREENWOOD AVE/SITE B	60085	FINDS, RCRA-LQG
WAUKEGAN	S103692889	WHITMORE'S WRECKER SERVICE	600 GREENWOOD ST.	60087	LUST
WAUKEGAN	99637900	INTAKE CANAL FOR WAUKEGAN STATION 10 GREENWOOD AVE	INTAKE CANAL FOR WAUKEGAN STATION 10 GREENWOOD AVE		ERNS
WAUKEGAN	1007444044	WAUKEGAN/YEOMAN CREEK	LEWIS AVE. SOUTH OF SUNSET		ODI
WAUKEGAN	1008120464	WAUKEGAN HHW COLLECTION	2 E MADISON -B	60085	FINDS
WAUKEGAN	1004475098	COMMONWEALTH EDISON - WAUKEGAN	NORTH OF WASHINGTON & W OF SHERIDAN RD	60085	FINDS, FTTS
WAUKEGAN	1008119702	WAUKEGAN TAR PITS	PERSHING RD & DEHRINGER	60085	FINDS
WAUKEGAN	1008137528	WAUKEGAN	410 ROBERT V SABONJIAN PLACE	60085	FINDS
WAUKEGAN	1004697044	CITY OF WAUKEGAN WATER PLANT	360 E SEAHORSE DR	60087	RCRA-SQG, FINDS
WAUKEGAN	1009310643	WAUKEGAN GAS STATION	200 N. SHERIDAN ROAD	60085	US BROWNFIELDS
WAUKEGAN	1004692735	WAUKEGAN STEEL SALES	1204 THRU 1212 BELVIDERE ST	60085	RCRA-SQG, FINDS
WAUKEGAN	8861869	WAUKEGAN IL(HARBOR)	WAUKEGAN IL(HARBOR)		ERNS
WAUKEGAN	94381418	WAUKEGAN HARBOR 55 SOUTH HARBOR PLACE	WAUKEGAN HARBOR 55 SOUTH HARBOR PLACE		ERNS
WAUKEGAN	94354216	WAUKEGAN GENERATING STATION 10 GREENWOOD AVENUE	WAUKEGAN GENERATING STATION 10 GREENWOOD AVENUE		ERNS
WAUKEGAN	93340334	WAUKEGAN HARBOR S	WAUKEGAN HARBOR S		ERNS
WAUKEGAN	93340331	WAUKEGAN HARBOR	WAUKEGAN HARBOR		ERNS
WAUKEGAN	91236017	40 OF WAUKEGAN HARBOR	40 OF WAUKEGAN HARBOR		ERNS
WAUKEGAN	1008120438	WAUKEGAN CLEANUP 2	YORK HOUSE RD & CM ST, P	60085	FINDS
WAUKEGAN	1008129975	WAUKEGAN MUNICIPAL 1	YORKHOUSE & MCAREE SW COR	60085	FINDS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/19/2006	Source: EPA
Date Data Arrived at EDR: 05/05/2006	Telephone: N/A
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 05/05/2006
Number of Days to Update: 17	Next Scheduled EDR Contact: 07/31/2006
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 8
Telephone: 303-312-6774

EPA Region 4
Telephone 404-562-8033

Proposed NPL: Proposed National Priority List Sites

Date of Government Version: 04/19/2006	Source: EPA
Date Data Arrived at EDR: 05/05/2006	Telephone: N/A
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 05/05/2006
Number of Days to Update: 17	Next Scheduled EDR Contact: 07/31/2006
	Data Release Frequency: Quarterly

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/19/2006	Source: EPA
Date Data Arrived at EDR: 05/05/2006	Telephone: N/A
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 05/05/2006
Number of Days to Update: 17	Next Scheduled EDR Contact: 07/31/2006
	Data Release Frequency: Quarterly

NPL RECOVERY: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 05/23/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 08/21/2006
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/01/2006	Source: EPA
Date Data Arrived at EDR: 03/21/2006	Telephone: 703-413-0223
Date Made Active in Reports: 04/13/2006	Last EDR Contact: 06/22/2006
Number of Days to Update: 23	Next Scheduled EDR Contact: 09/18/2006
	Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 02/01/2006	Source: EPA
Date Data Arrived at EDR: 03/21/2006	Telephone: 703-413-0223
Date Made Active in Reports: 04/13/2006	Last EDR Contact: 06/23/2006
Number of Days to Update: 23	Next Scheduled EDR Contact: 09/18/2006
	Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/15/2006	Source: EPA
Date Data Arrived at EDR: 03/17/2006	Telephone: 800-424-9346
Date Made Active in Reports: 04/13/2006	Last EDR Contact: 05/21/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 09/04/2006
	Data Release Frequency: Quarterly

RCRA: Resource Conservation and Recovery Act Information

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/09/2006	Source: EPA
Date Data Arrived at EDR: 04/27/2006	Telephone: 800-424-9346
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 06/28/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 08/21/2006
	Data Release Frequency: Quarterly

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2005	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/12/2006	Telephone: 202-260-2342
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 04/26/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 07/24/2006
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2005	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-366-4555
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 04/14/2006
Number of Days to Update: 46	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 07/03/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 07/03/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2004	Source: USGS
Date Data Arrived at EDR: 02/08/2005	Telephone: 703-692-8801
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 05/12/2006
Number of Days to Update: 177	Next Scheduled EDR Contact: 08/07/2006
	Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/05/2005	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 01/19/2006	Telephone: 202-528-4285
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 07/03/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

US BROWNFIELDS: A Listing of Brownfields Sites

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 04/26/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/27/2006	Telephone: 202-566-2777
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 06/12/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 09/11/2006
	Data Release Frequency: Semi-Annually

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/14/2004	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 02/15/2005	Telephone: Varies
Date Made Active in Reports: 04/25/2005	Last EDR Contact: 03/13/2006
Number of Days to Update: 69	Next Scheduled EDR Contact: 07/24/2006
	Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/13/2006	Source: EPA
Date Data Arrived at EDR: 04/28/2006	Telephone: 703-416-0223
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 07/06/2006
Number of Days to Update: 32	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 11/04/2005	Source: Department of Energy
Date Data Arrived at EDR: 11/28/2005	Telephone: 505-845-0011
Date Made Active in Reports: 01/30/2006	Last EDR Contact: 06/21/2006
Number of Days to Update: 63	Next Scheduled EDR Contact: 09/18/2006
	Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2003	Source: EPA
Date Data Arrived at EDR: 07/13/2005	Telephone: 202-566-0250
Date Made Active in Reports: 08/17/2005	Last EDR Contact: 06/22/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/18/2006
	Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002	Source: EPA
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-260-5521
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 04/12/2006
Number of Days to Update: 46	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	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/26/2006	Telephone: 202-566-1667
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 06/19/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 09/18/2006
	Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Date of Government Version: 03/31/2006	Source: EPA
Date Data Arrived at EDR: 04/26/2006	Telephone: 202-566-1667
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 06/19/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 09/18/2006
	Data Release Frequency: Quarterly

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 05/11/2006	Telephone: 202-564-4203
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 03/06/2006
Number of Days to Update: 11	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/21/2006	Telephone: 202-564-5088
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 04/11/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 07/17/2006
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 12/27/2005	Source: EPA
Date Data Arrived at EDR: 02/08/2006	Telephone: 202-566-0500
Date Made Active in Reports: 02/27/2006	Last EDR Contact: 06/28/2006
Number of Days to Update: 19	Next Scheduled EDR Contact: 08/07/2006
	Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/12/2006	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 04/26/2006	Telephone: 301-415-7169
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 07/03/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Quarterly

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/09/2006	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 03/29/2006	Telephone: 303-231-5959
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 06/28/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 09/25/2006
	Data Release Frequency: Semi-Annually

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/27/2006	Source: EPA
Date Data Arrived at EDR: 05/02/2006	Telephone: N/A
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 04/03/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 07/03/2006
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/05/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/04/2006
	Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2003
Date Data Arrived at EDR: 06/17/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 48

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/30/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Biennially

STATE AND LOCAL RECORDS

SHWS: State Oversight List

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 03/27/2006
Date Data Arrived at EDR: 04/11/2006
Date Made Active in Reports: 05/04/2006
Number of Days to Update: 23

Source: Illinois Environmental Protection Agency
Telephone: 217-524-4863
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Semi-Annually

CAT: Category List

Sites on this list are: Notice of Response Action, NPL, Pre/proposed NPL, Completed Remedial Action, Site Remediation Program, Federal Facilities, and Cleanup Started and/or Completed Sites.

Date of Government Version: 06/01/1997
Date Data Arrived at EDR: 07/07/1997
Date Made Active in Reports: 08/14/1997
Number of Days to Update: 38

Source: Illinois EPA
Telephone: N/A
Last EDR Contact: 02/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SWF/LF: Available Disposal for Solid Waste in Illinois - Solid Waste Landfills Subject to State Surcharge 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: 12/01/2005
Date Data Arrived at EDR: 03/31/2006
Date Made Active in Reports: 05/04/2006
Number of Days to Update: 34

Source: Illinois Environmental Protection Agency
Telephone: 217-785-8604
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Annually

IL NIPC: Solid Waste Landfill Inventory

Solid Waste Landfill Inventory. NIPC is an inventory of active and inactive solid waste disposal sites, based on state, local government and historical archive data. Included are numerous sites which previously had never been identified largely because there was no obligation to register such sites prior to 1971.

Date of Government Version: 08/01/1988
Date Data Arrived at EDR: 08/01/1994
Date Made Active in Reports: 08/12/1994
Number of Days to Update: 11

Source: Northeastern Illinois Planning Commission
Telephone: 312-454-0400
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

LUST: Leaking Underground Storage Tank Sites

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 05/22/2006
Date Data Arrived at EDR: 05/24/2006
Date Made Active in Reports: 06/19/2006
Number of Days to Update: 26

Source: Illinois Environmental Protection Agency
Telephone: 217-782-6762
Last EDR Contact: 02/20/2006
Next Scheduled EDR Contact: 05/22/2006
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST: Underground Storage Tank Facility List

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 03/07/2006	Source: Illinois State Fire Marshal
Date Data Arrived at EDR: 03/13/2006	Telephone: 217-785-0969
Date Made Active in Reports: 03/24/2006	Last EDR Contact: 05/23/2006
Number of Days to Update: 11	Next Scheduled EDR Contact: 08/21/2006
	Data Release Frequency: Quarterly

ENG CONTROLS: Sites with Engineering Controls

Sites using of engineered barriers (e.g., asphalt or concrete paving).

Date of Government Version: 05/11/2006	Source: Illinois Environmental Protection Agency
Date Data Arrived at EDR: 05/16/2006	Telephone: 217-782-6761
Date Made Active in Reports: 06/19/2006	Last EDR Contact: 05/16/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 08/14/2006
	Data Release Frequency: Quarterly

Inst Control: Institutional Controls

Legal or administrative restrictions on land use and/or other activities (e.g., groundwater use restrictions) which effectively limit exposure to contamination may be employed as alternatives to removal or treatment of contamination.

Date of Government Version: 05/11/2006	Source: Illinois Environmental Protection Agency
Date Data Arrived at EDR: 05/16/2006	Telephone: 217-782-6761
Date Made Active in Reports: 06/19/2006	Last EDR Contact: 05/16/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 08/14/2006
	Data Release Frequency: Quarterly

SRP: Site Remediation Program Database

The database identifies the status of all voluntary remediation projects administered through the pre-notice site cleanup program (1989 to 1995) and the site remediation program (1996 to the present).

Date of Government Version: 05/11/2006	Source: Illinois Environmental Protection Agency
Date Data Arrived at EDR: 05/16/2006	Telephone: 217-785-9407
Date Made Active in Reports: 06/19/2006	Last EDR Contact: 05/16/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 08/14/2006
	Data Release Frequency: Semi-Annually

DRYCLEANERS: Illinois Licensed Drycleaners

Any retail drycleaning facility in Illinois must apply for a license through the Illinois Drycleaner Environmental Response Trust Fund. Drycleaner Environmental Response Trust Fund of Illinois.

Date of Government Version: 03/01/2006	Source: Drycleaner Environmental Response Trust Fund of Illinois
Date Data Arrived at EDR: 04/05/2006	Telephone: 800-765-4041
Date Made Active in Reports: 05/04/2006	Last EDR Contact: 06/23/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 09/18/2006
	Data Release Frequency: Varies

IMPDMNT: Surface Impoundment Inventory

Statewide inventory of industrial, municipal, mining, oil & gas , and large agricultural impoundment. This study was conducted by the Illinois EPA to assess potential for contamination of shallow aquifers. This was a one-time study. Although many of the impoundments may no longer be present, the sites may be contaminated.

Date of Government Version: 12/31/1980	Source: Illinois Waste Management & Research Center
Date Data Arrived at EDR: 03/08/2002	Telephone: 217-333-8940
Date Made Active in Reports: 06/03/2002	Last EDR Contact: 02/20/2002
Number of Days to Update: 87	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

BROWNFIELDS: Municipal Brownfields Redevelopment Grant Program Project Descriptions

The Illinois Municipal Brownfields Redevelopment Grant Program (MBRGP) offers grants worth a maximum of \$240,000 each to municipalities to assist in site investigation activities, development of cleanup objectives, and performance of cleanup activities. Brownfields are abandoned or underused industrial and/or commercial properties that are contaminated (or thought to be contaminated) and have an active potential for redevelopment.

Date of Government Version: 02/21/2006	Source: Illinois Environmental Protection Agency
Date Data Arrived at EDR: 02/21/2006	Telephone: 217-785-3486
Date Made Active in Reports: 03/14/2006	Last EDR Contact: 07/10/2006
Number of Days to Update: 21	Next Scheduled EDR Contact: 08/21/2006
	Data Release Frequency: Varies

BROWNFIELDS: Redevelopment Assessment Database

The Office of Site Evaluations Redevelopment Assessment database identifies the status of all properties within the State in which the Illinois EPA's Office of Site Evaluation has conducted a municipal Brownfield Redevelopment Assessment.

Date of Government Version: 05/24/2006	Source: Illinois Environmental Protection Agency
Date Data Arrived at EDR: 05/24/2006	Telephone: 217-524-1658
Date Made Active in Reports: 06/19/2006	Last EDR Contact: 02/20/2006
Number of Days to Update: 26	Next Scheduled EDR Contact: 05/22/2006
	Data Release Frequency: Varies

AIRS: AIRS

A listing of air permits and emissions information.

Date of Government Version: 05/10/2006	Source: Illinois EPA
Date Data Arrived at EDR: 05/15/2006	Telephone: 217-557-0314
Date Made Active in Reports: 06/19/2006	Last EDR Contact: 05/03/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 07/30/2006
	Data Release Frequency: Varies

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2004	Source: USGS
Date Data Arrived at EDR: 02/08/2005	Telephone: 202-208-3710
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 05/12/2006
Number of Days to Update: 177	Next Scheduled EDR Contact: 08/07/2006
	Data Release Frequency: Semi-Annually

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	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: 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	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: 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	Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/17/2006	Telephone: 860-424-3375
Date Made Active in Reports: 04/07/2006	Last EDR Contact: 06/14/2006
Number of Days to Update: 49	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	Source: Department of Environmental Protection
Date Data Arrived at EDR: 04/24/2006	Telephone: N/A
Date Made Active in Reports: 05/02/2006	Last EDR Contact: 07/05/2006
Number of Days to Update: 8	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	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 05/31/2006	Telephone: 518-402-8651
Date Made Active in Reports: 06/27/2006	Last EDR Contact: 05/31/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 08/28/2006
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 05/04/2006
Date Made Active in Reports: 06/06/2006
Number of Days to Update: 33

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/12/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 09/30/2005
Date Data Arrived at EDR: 05/09/2006
Date Made Active in Reports: 05/24/2006
Number of Days to Update: 15

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 06/19/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 46

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 07/11/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation
Telephone: (800) 823-6277

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health
Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: Homes & Centers Listing

Source: Department of Children & Family Services

Telephone: 312-814-4150

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

WAUKEGAN AFRC, IL
1721 NORTH MCAREE ROAD
WAUKEGAN, IL 60085

TARGET PROPERTY COORDINATES

Latitude (North): 42.38440 - 42° 23' 3.8"
Longitude (West): 87.8652 - 87° 51' 54.7"
Universal Transverse Mercator: Zone 16
UTM X (Meters): 428776.8
UTM Y (Meters): 4692605.5
Elevation: 687 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 42087-D7 ZION, IL
Most Recent Revision: 1993

South Map: 42087-C7 WAUKEGAN, IL
Most Recent Revision: 1993

West Map: 42087-D8 WADSWORTH, IL
Most Recent Revision: 1993

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).

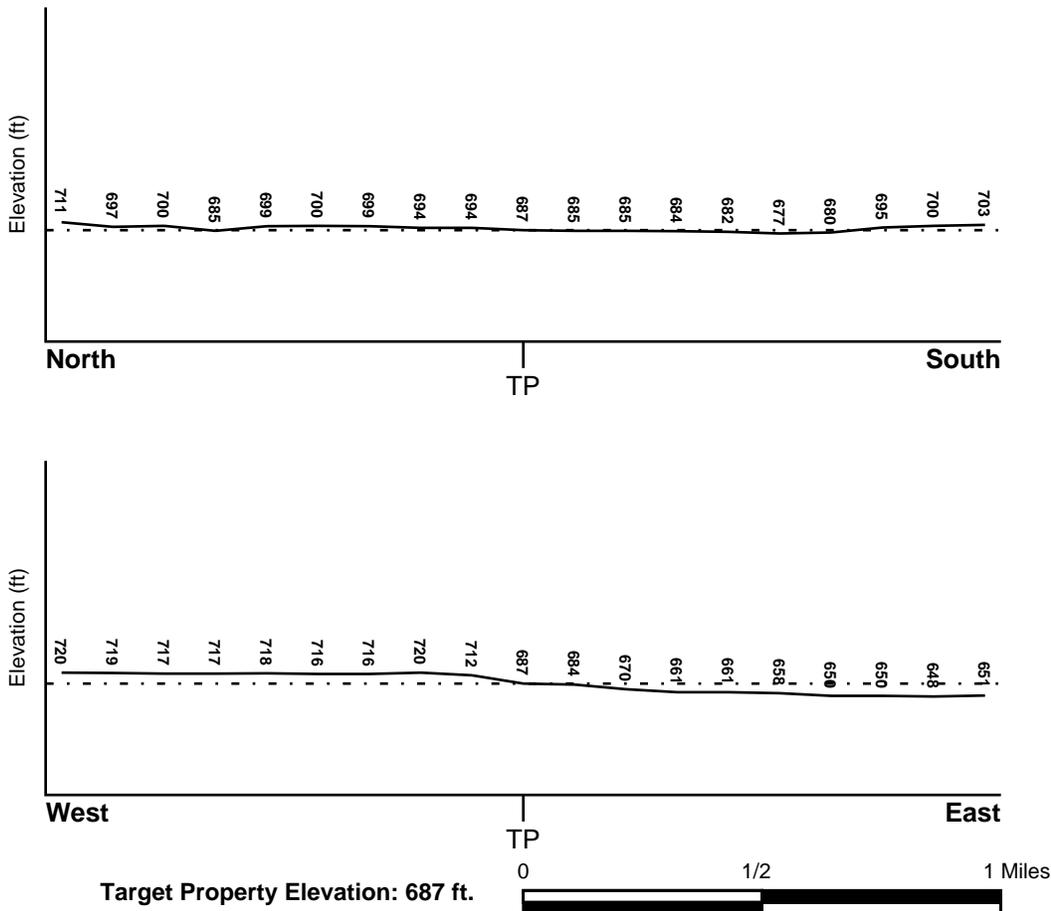
TOPOGRAPHIC INFORMATION

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 East

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Target Property County</u> LAKE, IL	FEMA Flood <u>Electronic Data</u> YES - refer to the Overview Map and Detail Map
Flood Plain Panel at Target Property:	17097C0088F
Additional Panels in search area:	17097C0069F 17097C0176F 17097C0157F

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u> ZION	NWI Electronic <u>Data Coverage</u> YES - refer to the Overview Map and Detail Map
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HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION</u> <u>FROM TP</u>	<u>GENERAL DIRECTION</u> <u>GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era: Paleozoic
System: Silurian
Series: Middle Silurian (Niagoaran)
Code: S2 *(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: MORLEY

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained. Soils have a layer of low hydraulic conductivity, wet state high in the profile. Depth to water table is 3 to 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	silt 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 Soils.	Max: 2.00 Min: 0.60	Max: 7.30 Min: 5.10
2	9 inches	28 inches	silty clay	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 Soils.	Max: 0.60 Min: 0.20	Max: 7.80 Min: 5.60
3	28 inches	42 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 Soils.	Max: 0.60 Min: 0.06	Max: 8.40 Min: 6.10
4	42 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 Soils.	Max: 0.60 Min: 0.06	Max: 8.40 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: silty clay loam
muck
loam

Surficial Soil Types: silty clay loam
muck
loam

Shallow Soil Types: silty clay loam
silt loam

Deeper Soil Types: muck
stratified
gravelly - loamy sand

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	IL10262507	1/4 - 1/2 Mile NW
2	IL10260950	1/4 - 1/2 Mile SW
A3	IL10261321	1/4 - 1/2 Mile WSW
4	IL10262984	1/4 - 1/2 Mile North
A5	IL10261092	1/4 - 1/2 Mile WSW
A6	IL10261105	1/4 - 1/2 Mile WSW
A7	IL10260989	1/4 - 1/2 Mile WSW
B8	IL10261331	1/4 - 1/2 Mile WSW
B9	IL10261428	1/4 - 1/2 Mile WSW
10	IL10260527	1/4 - 1/2 Mile SW
B11	IL10261324	1/4 - 1/2 Mile WSW
12	IL10259809	1/4 - 1/2 Mile South
C13	IL10262233	1/2 - 1 Mile WNW
C14	IL10262229	1/2 - 1 Mile WNW
15	IL10260803	1/2 - 1 Mile WSW
D16	IL10261096	1/2 - 1 Mile WSW
17	IL10262243	1/2 - 1 Mile WNW
E18	IL10262470	1/2 - 1 Mile WNW
E19	IL10262471	1/2 - 1 Mile WNW
D20	IL10261023	1/2 - 1 Mile WSW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
D21	IL10260897	1/2 - 1 Mile WSW
F22	IL10259791	1/2 - 1 Mile SW
F23	IL10259774	1/2 - 1 Mile SW
E24	IL10262491	1/2 - 1 Mile WNW
F25	IL10259743	1/2 - 1 Mile SW
G26	IL10261572	1/2 - 1 Mile West
F27	IL10259703	1/2 - 1 Mile SW
F28	IL10259575	1/2 - 1 Mile SW
H29	IL10259815	1/2 - 1 Mile SW
I30	IL10261107	1/2 - 1 Mile WSW
H31	IL10259830	1/2 - 1 Mile SW
G32	IL10261320	1/2 - 1 Mile WSW
F33	IL10259693	1/2 - 1 Mile SW
H34	IL10259889	1/2 - 1 Mile SW
H35	IL10259890	1/2 - 1 Mile SW
H36	IL10259891	1/2 - 1 Mile SW
H37	IL10259644	1/2 - 1 Mile SW
J38	IL10262117	1/2 - 1 Mile West
G39	IL10261411	1/2 - 1 Mile West
J40	IL10262163	1/2 - 1 Mile West
K41	IL10259370	1/2 - 1 Mile SSW
L42	IL10260146	1/2 - 1 Mile SW
K43	IL10259439	1/2 - 1 Mile SSW
K44	IL10259451	1/2 - 1 Mile SSW
L45	IL10260083	1/2 - 1 Mile SW
I46	IL10261108	1/2 - 1 Mile WSW
M47	IL10259458	1/2 - 1 Mile SW
I48	IL10261182	1/2 - 1 Mile WSW
L49	IL10259942	1/2 - 1 Mile SW
N50	IL10260794	1/2 - 1 Mile WSW
M51	IL10259486	1/2 - 1 Mile SW
52	IL10259840	1/2 - 1 Mile SW
O53	IL10260320	1/2 - 1 Mile WSW
N54	IL10260662	1/2 - 1 Mile WSW
N55	IL10260663	1/2 - 1 Mile WSW
K56	IL10259285	1/2 - 1 Mile SSW
P57	IL10261116	1/2 - 1 Mile WSW
L58	IL10259953	1/2 - 1 Mile SW
Q59	IL10261878	1/2 - 1 Mile West
R60	IL10258918	1/2 - 1 Mile SSW
S61	IL10261576	1/2 - 1 Mile West
T62	IL10258792	1/2 - 1 Mile South
Q63	IL10261758	1/2 - 1 Mile West
U64	IL10259036	1/2 - 1 Mile SSE
S65	IL10261495	1/2 - 1 Mile West
P66	IL10261322	1/2 - 1 Mile West
67	IL10258894	1/2 - 1 Mile SSE
O68	IL10260459	1/2 - 1 Mile WSW
M69	IL10259326	1/2 - 1 Mile SW
O70	IL10260390	1/2 - 1 Mile WSW
V71	IL10259356	1/2 - 1 Mile SW
U72	IL10259083	1/2 - 1 Mile SSE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

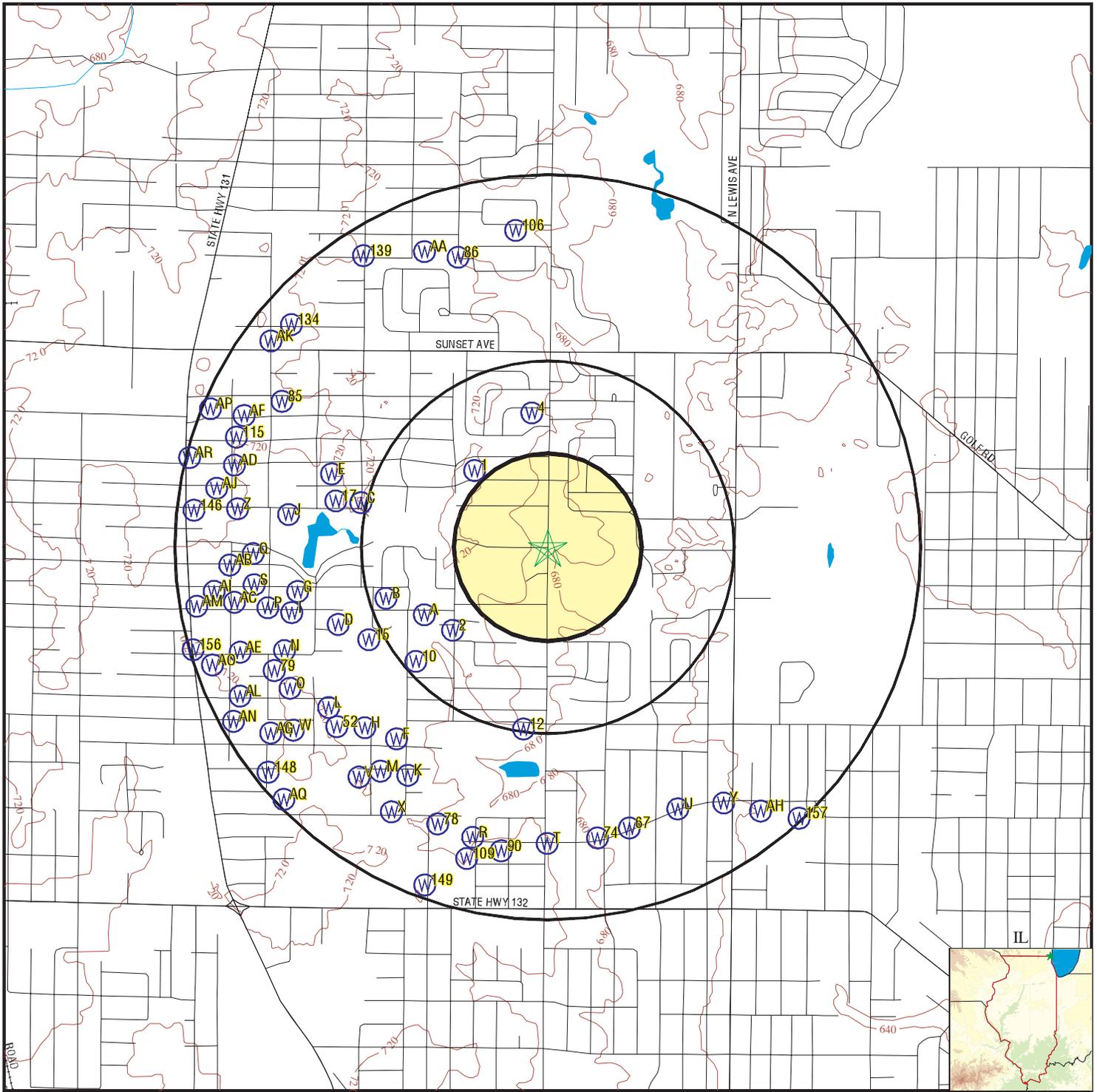
MAP ID	WELL ID	LOCATION FROM TP
T73	IL10258758	1/2 - 1 Mile South
74	IL10258785	1/2 - 1 Mile South
O75	IL10260052	1/2 - 1 Mile WSW
S76	IL10261575	1/2 - 1 Mile West
N77	IL10260562	1/2 - 1 Mile WSW
78	IL10258925	1/2 - 1 Mile SSW
79	IL10260449	1/2 - 1 Mile WSW
O80	IL10260155	1/2 - 1 Mile WSW
V81	IL10259368	1/2 - 1 Mile SW
W82	IL10259864	1/2 - 1 Mile SW
W83	IL10259962	1/2 - 1 Mile WSW
O84	IL10260113	1/2 - 1 Mile WSW
85	IL10263080	1/2 - 1 Mile WNW
86	IL10264553	1/2 - 1 Mile NNW
T87	IL10258638	1/2 - 1 Mile South
X88	IL10259002	1/2 - 1 Mile SSW
Q89	IL10261741	1/2 - 1 Mile West
90	IL10258642	1/2 - 1 Mile South
S91	IL10261420	1/2 - 1 Mile West
Y92	IL10259096	1/2 - 1 Mile SE
Z93	IL10262152	1/2 - 1 Mile West
X94	IL10259073	1/2 - 1 Mile SSW
Z95	IL10262156	1/2 - 1 Mile West
AA96	IL10264478	1/2 - 1 Mile NNW
R97	IL10258662	1/2 - 1 Mile SSW
AB98	IL10261761	1/2 - 1 Mile West
AC99	IL10261249	1/2 - 1 Mile West
AC100	IL10261219	1/2 - 1 Mile West
Y101	IL10259095	1/2 - 1 Mile SE
AD102	IL10262584	1/2 - 1 Mile WNW
AC103	IL10261371	1/2 - 1 Mile West
AD104	IL10262557	1/2 - 1 Mile WNW
AE105	IL10260589	1/2 - 1 Mile WSW
106	IL10264907	1/2 - 1 Mile North
Z107	IL10262244	1/2 - 1 Mile West
AB108	IL10261704	1/2 - 1 Mile West
109	IL10258574	1/2 - 1 Mile SSW
AB110	IL10261604	1/2 - 1 Mile West
W111	IL10259735	1/2 - 1 Mile SW
AF112	IL10263018	1/2 - 1 Mile WNW
AG113	IL10259882	1/2 - 1 Mile WSW
W114	IL10259659	1/2 - 1 Mile SW
115	IL10262791	1/2 - 1 Mile WNW
AC116	IL10261275	1/2 - 1 Mile West
AF117	IL10262882	1/2 - 1 Mile WNW
AA118	IL10264781	1/2 - 1 Mile NNW
AE119	IL10260721	1/2 - 1 Mile WSW
AH120	IL10259091	1/2 - 1 Mile SE
AI121	IL10261569	1/2 - 1 Mile West
AG122	IL10259746	1/2 - 1 Mile SW
AG123	IL10259747	1/2 - 1 Mile SW
AG124	IL10259664	1/2 - 1 Mile SW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
AJ125	IL10262406	1/2 - 1 Mile West
AJ126	IL10262407	1/2 - 1 Mile West
AJ127	IL10262408	1/2 - 1 Mile West
AF128	IL10262963	1/2 - 1 Mile WNW
AI129	IL10261326	1/2 - 1 Mile West
AD130	IL10262576	1/2 - 1 Mile WNW
AI131	IL10261430	1/2 - 1 Mile West
AJ132	IL10262348	1/2 - 1 Mile West
AK133	IL10263465	1/2 - 1 Mile NW
134	IL10263752	1/2 - 1 Mile NW
AG135	IL10259848	1/2 - 1 Mile WSW
AL136	IL10260209	1/2 - 1 Mile WSW
AL137	IL10260160	1/2 - 1 Mile WSW
AK138	IL10263664	1/2 - 1 Mile NW
139	IL10264581	1/2 - 1 Mile NNW
AH140	IL10258975	1/2 - 1 Mile SE
AM141	IL10261201	1/2 - 1 Mile West
AN142	IL10259888	1/2 - 1 Mile WSW
AK143	IL10263609	1/2 - 1 Mile NW
AO144	IL10260431	1/2 - 1 Mile WSW
AO145	IL10260640	1/2 - 1 Mile WSW
146	IL10262183	1/2 - 1 Mile West
AO147	IL10260451	1/2 - 1 Mile WSW
148	IL10259405	1/2 - 1 Mile SW
149	IL10258282	1/2 - 1 Mile SSW
AP150	IL10262988	1/2 - 1 Mile WNW
AQ151	IL10259157	1/2 - 1 Mile SW
AM152	IL10261218	1/2 - 1 Mile West
AR153	IL10262514	1/2 - 1 Mile WNW
AQ154	IL10259097	1/2 - 1 Mile SW
AP155	IL10263021	1/2 - 1 Mile WNW
156	IL10260690	1/2 - 1 Mile WSW
157	IL10258976	1/2 - 1 Mile SE
AN158	IL10259897	1/2 - 1 Mile WSW
AR159	IL10262745	1/2 - 1 Mile WNW

PHYSICAL SETTING SOURCE MAP - 01714247.116r



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data



SITE NAME: Waukegan AFRC, IL
 ADDRESS: 1721 NORTH MCAREE ROAD
 WAUKEGAN IL 60085
 LAT/LONG: 42.3844 / 87.8652

CLIENT: CH2M Hill
 CONTACT: Mary Beth Jacques
 INQUIRY #: 01714247.116r
 DATE: July 12, 2006

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

1
NW
1/4 - 1/2 Mile
Higher

IL WELLS IL10262507

Source:	IL Water Wells Records		
Objectid:	242359		
Api:	120973583500	Status:	WATER
Longitude:	-87.868905		
Latitude:	42.387359		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Lindquist, John
Farm num:	Not Reported	Company na:	Gross, Michael
Elevation:	0		
Elevref:	Not Reported		
Total dept:	83		
Wformation:	fine black gravel		
Wfmfrom:	81		
Wfmto:	83		
Pumpgpm:	0		
Shapex:	-87.86903009		
Shapey:	42.38738365		
Site id:	IL10262507		

2
SW
1/4 - 1/2 Mile
Higher

IL WELLS IL10260950

Source:	IL Water Wells Records		
Objectid:	29244		
Api:	120972817600	Status:	WATER
Longitude:	-87.870055		
Latitude:	42.381145		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Woodcraft Construction
Farm num:	Not Reported	Company na:	Boyce, Kenneth D.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	96		
Wformation:	sand		
Wfmfrom:	93		
Wfmto:	96		
Pumpgpm:	12		
Shapex:	-87.87018002		
Shapey:	42.38116972		
Site id:	IL10260950		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

A3
WSW
1/4 - 1/2 Mile
Higher

IL WELLS IL10261321

Source:	IL Water Wells Records		
Objectid:	279371		
Api:	120973586200	Status:	WATER
Longitude:	-87.871288		
Latitude:	42.382242		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Smythe Construction
Farm num:	Not Reported	Company na:	Hoover, Lonny R.
Elevation:	711		
Elevref:	Not Reported		
Total dept:	91		
Wformation:	sand		
Wfmfrom:	88		
Wfmto:	91		
Pumpgpm:	16		
Shapex:	-87.8714131		
Shapey:	42.38226671		
Site id:	IL10261321		

4
North
1/4 - 1/2 Mile
Higher

IL WELLS IL10262984

Source:	IL Water Wells Records		
Objectid:	54613		
Api:	120973584200	Status:	WATER
Longitude:	-87.865907		
Latitude:	42.389600		
Section :	8		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Klinefelter, Dale
Farm num:	Not Reported	Company na:	Gross, Emil E.
Elevation:	709		
Elevref:	Not Reported		
Total dept:	210		
Wformation:	limestone		
Wfmfrom:	195		
Wfmto:	210		
Pumpgpm:	3		
Shapex:	-87.86603201		
Shapey:	42.38962463		
Site id:	IL10262984		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

A5
WSW
1/4 - 1/2 Mile
Higher

IL WELLS IL10261092

Source:	IL Water Wells Records		
Objectid:	197237		
Api:	120972587400	Status:	WATER
Longitude:	-87.87155		
Latitude:	42.381713		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Willis, Cliff
Farm num:	Not Reported	Company na:	Gross, Emil E.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	85		
Wformation:	fine black gravel		
Wfmfrom:	84		
Wfmto:	85		
Pumpgpm:	4		
Shapex:	-87.8716751		
Shapey:	42.38173871		
Site id:	IL10261092		

A6
WSW
1/4 - 1/2 Mile
Higher

IL WELLS IL10261105

Source:	IL Water Wells Records		
Objectid:	61568		
Api:	120973614100	Status:	WATER
Longitude:	-87.871738		
Latitude:	42.381741		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Arnold, Bill
Farm num:	Not Reported	Company na:	Gross, Michael
Elevation:	708		
Elevref:	Not Reported		
Total dept:	92		
Wformation:	Not Reported		
Wfmfrom:	84		
Wfmto:	92		
Pumpgpm:	20		
Shapex:	-87.87186311		
Shapey:	42.38176571		
Site id:	IL10261105		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

A7
WSW
1/4 - 1/2 Mile
Higher

IL WELLS IL10260989

Source:	IL Water Wells Records		
Objectid:	144222		
Api:	120972542100	Status:	WATER
Longitude:	-87.871597		
Latitude:	42.381301		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Lidbloom, Albert
Farm num:	Not Reported	Company na:	Hoover, L. R.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	93		
Wformation:	gravel & sand		
Wfmfrom:	89		
Wfmto:	93		
Pumpgpm:	12		
Shapex:	-87.87172209		
Shapey:	42.38132572		
Site id:	IL10260989		

B8
WSW
1/4 - 1/2 Mile
Higher

IL WELLS IL10261331

Source:	IL Water Wells Records		
Objectid:	216977		
Api:	120972541800	Status:	WATER
Longitude:	-87.873059		
Latitude:	42.382293		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Busch & Larson
Farm num:	Not Reported	Company na:	Boysen, Henry Co.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	94		
Wformation:	sand-gravel		
Wfmfrom:	88		
Wfmto:	94		
Pumpgpm:	20		
Shapex:	-87.87318417		
Shapey:	42.3823177		
Site id:	IL10261331		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

B9
WSW
1/4 - 1/2 Mile
Higher

IL WELLS IL10261428

Source:	IL Water Wells Records		
Objectid:	120224		
Api:	120972792300	Status:	WATER
Longitude:	-87.873798		
Latitude:	42.382617		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Burleson, Jack
Farm num:	Not Reported	Company na:	Boyce, Kenneth D.
Elevation:	716		
Elevref:	Not Reported		
Total dept:	120		
Wformation:	sand		
Wfmfrom:	110		
Wfmto:	120		
Pumpgpm:	9		
Shapex:	-87.87392321		
Shapey:	42.3826417		
Site id:	IL10261428		

10
SW
1/4 - 1/2 Mile
Higher

IL WELLS IL10260527

Source:	IL Water Wells Records		
Objectid:	247886		
Api:	120974258200	Status:	WATER
Longitude:	-87.871986		
Latitude:	42.379934		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Centurian Const.
Farm num:	Not Reported	Company na:	Gross, Michael
Elevation:	711		
Elevref:	Not Reported		
Total dept:	97		
Wformation:	sand & gravel		
Wfmfrom:	94		
Wfmto:	97		
Pumpgpm:	15		
Shapex:	-87.87211108		
Shapey:	42.37995873		
Site id:	IL10260527		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

B11
WSW
1/4 - 1/2 Mile
Higher

IL WELLS IL10261324

Source:	IL Water Wells Records		
Objectid:	283830		
Api:	120973585400	Status:	WATER
Longitude:	-87.873807		
Latitude:	42.382259		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Gerchar, John
Farm num:	Not Reported	Company na:	Gross, Eugene J.
Elevation:	719		
Elevref:	Not Reported		
Total dept:	115		
Wformation:	gravel		
Wfmfrom:	100		
Wfmto:	115		
Pumpgpm:	10		
Shapex:	-87.8739322		
Shapey:	42.3822837		
Site id:	IL10261324		

12
South
1/4 - 1/2 Mile
Higher

IL WELLS IL10259809

Source:	IL Water Wells Records		
Objectid:	97249		
Api:	120970174400	Status:	WATER
Longitude:	-87.866343		
Latitude:	42.377305		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Jones, Gilbert M.
Farm num:	Not Reported	Company na:	Maitland Lester
Elevation:	0		
Elevref:	GL		
Total dept:	84		
Wformation:	Not Reported		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	0		
Shapex:	-87.8664678		
Shapey:	42.37732977		
Site id:	IL10259809		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

C13
WNW
1/2 - 1 Mile
Higher

IL WELLS IL10262233

Source:	IL Water Wells Records		
Objectid:	124334		
Api:	120973583700	Status:	WATER
Longitude:	-87.874727		
Latitude:	42.386141		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Paymard, George
Farm num:	Not Reported	Company na:	Hoover, Lonny R.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	123		
Wformation:	sand		
Wfmfrom:	121		
Wfmto:	123		
Pumpgpm:	3		
Shapex:	-87.87485332		
Shapey:	42.38616565		
Site id:	IL10262233		

C14
WNW
1/2 - 1 Mile
Higher

IL WELLS IL10262229

Source:	IL Water Wells Records		
Objectid:	26220		
Api:	120972563500	Status:	WATER
Longitude:	-87.875008		
Latitude:	42.386076		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Busch & Larson
Farm num:	Not Reported	Company na:	Boysen, Henry Co.,Lichter,John
Elevation:	0		
Elevref:	Not Reported		
Total dept:	94		
Wformation:	sand-gravel		
Wfmfrom:	91		
Wfmto:	93		
Pumpgpm:	0		
Shapex:	-87.87513333		
Shapey:	42.38610065		
Site id:	IL10262229		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

15
WSW
1/2 - 1 Mile
Higher

IL WELLS IL10260803

Source:	IL Water Wells Records		
Objectid:	71784		
Api:	120972586900	Status:	WATER
Longitude:	-87.874452		
Latitude:	42.380780		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Brooks Builders
Farm num:	Not Reported	Company na:	Boysen, Henry Co.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	100		
Wformation:	sand-gravel		
Wfmfrom:	95		
Wfmto:	100		
Pumpgpm:	20		
Shapex:	-87.8745772		
Shapey:	42.38080472		
Site id:	IL10260803		

D16
WSW
1/2 - 1 Mile
Higher

IL WELLS IL10261096

Source:	IL Water Wells Records		
Objectid:	84913		
Api:	120973466100	Status:	WATER
Longitude:	-87.875662		
Latitude:	42.381735		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Blahunka, Ron
Farm num:	Not Reported	Company na:	Boyce, Kenneth D.
Elevation:	717		
Elevref:	Not Reported		
Total dept:	75		
Wformation:	sand		
Wfmfrom:	72		
Wfmto:	75		
Pumpgpm:	8		
Shapex:	-87.87578727		
Shapey:	42.38175971		
Site id:	IL10261096		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

17
WNW
1/2 - 1 Mile
Higher

IL WELLS IL10262243

Source:	IL Water Wells Records		
Objectid:	94139		
Api:	120973959400	Status:	WATER
Longitude:	-87.876183		
Latitude:	42.386175		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Christensen, Al
Farm num:	Not Reported	Company na:	Gross, Michael
Elevation:	719		
Elevref:	Not Reported		
Total dept:	228		
Wformation:	limestone		
Wfmfrom:	218		
Wfmto:	228		
Pumpgpm:	15		
Shapex:	-87.87630938		
Shapey:	42.38619865		
Site id:	IL10262243		

E18
WNW
1/2 - 1 Mile
Higher

IL WELLS IL10262470

Source:	IL Water Wells Records		
Objectid:	1223		
Api:	120973764300	Status:	WATER
Longitude:	-87.876054		
Latitude:	42.387203		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Lakeview Lumber & Constr.
Farm num:	Not Reported	Company na:	Hutchings, Clyde A.
Elevation:	717		
Elevref:	Not Reported		
Total dept:	302		
Wformation:	limestone		
Wfmfrom:	229		
Wfmto:	302		
Pumpgpm:	0		
Shapex:	-87.87618039		
Shapey:	42.38722764		
Site id:	IL10262470		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

**E19
 WNW
 1/2 - 1 Mile
 Higher**

IL WELLS IL10262471

Source:	IL Water Wells Records		
Objectid:	159739		
Api:	120973840100	Status:	WATER
Longitude:	-87.876054		
Latitude:	42.387203		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Abbregio
Farm num:	Not Reported	Company na:	Hutchings, James A.
Elevation:	717		
Elevref:	GL		
Total dept:	101		
Wformation:	drift		
Wfmfrom:	98		
Wfmto:	101		
Pumpgpm:	0		
Shapex:	-87.87618039		
Shapey:	42.38722764		
Site id:	IL10262471		

**D20
 WSW
 1/2 - 1 Mile
 Higher**

IL WELLS IL10261023

Source:	IL Water Wells Records		
Objectid:	82341		
Api:	120973562200	Status:	WATER
Longitude:	-87.876197		
Latitude:	42.381439		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Negron, Ramon
Farm num:	Not Reported	Company na:	Boyce, Kenneth D.
Elevation:	717		
Elevref:	Not Reported		
Total dept:	90		
Wformation:	sand		
Wfmfrom:	87		
Wfmto:	90		
Pumpgpm:	7		
Shapex:	-87.87632229		
Shapey:	42.38146371		
Site id:	IL10261023		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

D21
WSW
1/2 - 1 Mile
Higher

IL WELLS IL10260897

Source:	IL Water Wells Records		
Objectid:	175336		
Api:	120972849800	Status:	WATER
Longitude:	-87.876317		
Latitude:	42.380945		
Section :	13		
Twp:	45		
Tdir:	N		
Rng:	11		
Rdir:	E	Farm name:	O'Brien, William
Farm num:	Not Reported	Company na:	Gaffke, George E.
Elevation:	717		
Elevref:	Not Reported		
Total dept:	81		
Wformation:	sand & gravel		
Wfmfrom:	78		
Wfmto:	81		
Pumpgpm:	12		
Shapex:	-87.87644228		
Shapey:	42.38096971		
Site id:	IL10260897		

F22
SW
1/2 - 1 Mile
Higher

IL WELLS IL10259791

Source:	IL Water Wells Records		
Objectid:	220441		
Api:	120974642100	Status:	ENG
Longitude:	-87.872653		
Latitude:	42.377260		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	STS job 17097
Farm num:	B-32	Company na:	Soil Testing Services
Elevation:	0		
Elevref:	GL		
Total dept:	45		
Wformation:	Not Reported		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	0		
Shapex:	-87.87277806		
Shapey:	42.37728476		
Site id:	IL10259791		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

F23
SW
1/2 - 1 Mile
Higher

IL WELLS IL10259774

Source:	IL Water Wells Records		
Objectid:	21296		
Api:	120972587200	Status:	WATER
Longitude:	-87.872986		
Latitude:	42.377154		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Modern Home Builders
Farm num:	Not Reported	Company na:	Hoover, L. R.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	68		
Wformation:	gravel		
Wfmfrom:	67		
Wfmto:	68		
Pumpgpm:	7		
Shapex:	-87.87311107		
Shapey:	42.37717876		
Site id:	IL10259774		

E24
WNW
1/2 - 1 Mile
Higher

IL WELLS IL10262491

Source:	IL Water Wells Records		
Objectid:	169978		
Api:	120972586600	Status:	WATER
Longitude:	-87.877097		
Latitude:	42.387272		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Busch & Larson
Farm num:	Not Reported	Company na:	Boysen, Henry Co.,Lichter,John
Elevation:	0		
Elevref:	Not Reported		
Total dept:	91		
Wformation:	gravel		
Wfmfrom:	88		
Wfmto:	91		
Pumpgpm:	15		
Shapex:	-87.87722244		
Shapey:	42.38729664		
Site id:	IL10262491		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

F25
SW
1/2 - 1 Mile
Higher

IL WELLS IL10259743

Source:	IL Water Wells Records		
Objectid:	282356		
Api:	120972900100	Status:	WATER
Longitude:	-87.872927		
Latitude:	42.376982		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Master's Touch Construction
Farm num:	Not Reported	Company na:	Gaffke, George E.
Elevation:	710		
Elevref:	Not Reported		
Total dept:	64		
Wformation:	sand & gravel		
Wfmfrom:	61		
Wfmto:	64		
Pumpgpm:	12		
Shapex:	-87.87305207		
Shapey:	42.37700677		
Site id:	IL10259743		

G26
West
1/2 - 1 Mile
Higher

IL WELLS IL10261572

Source:	IL Water Wells Records		
Objectid:	1934		
Api:	120973438700	Status:	WATER
Longitude:	-87.877877		
Latitude:	42.383123		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Holtz, George
Farm num:	Not Reported	Company na:	Boyce, Kenneth D.
Elevation:	717		
Elevref:	Not Reported		
Total dept:	96		
Wformation:	sand		
Wfmfrom:	92		
Wfmto:	96		
Pumpgpm:	11		
Shapex:	-87.87800239		
Shapey:	42.38314668		
Site id:	IL10261572		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

F27
SW
1/2 - 1 Mile
Higher

IL WELLS IL10259703

Source:	IL Water Wells Records		
Objectid:	130764		
Api:	120972648500	Status:	WATER
Longitude:	-87.873087		
Latitude:	42.376811		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Gust, Martin
Farm num:	Not Reported	Company na:	Gaffke, George E.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	66		
Wformation:	gravel		
Wfmfrom:	62		
Wfmto:	66		
Pumpgpm:	12		
Shapex:	-87.87321207		
Shapey:	42.37683576		
Site id:	IL10259703		

F28
SW
1/2 - 1 Mile
Higher

IL WELLS IL10259575

Source:	IL Water Wells Records		
Objectid:	213149		
Api:	120974642200	Status:	ENG
Longitude:	-87.872656		
Latitude:	42.376535		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	STS job 17097
Farm num:	B-33	Company na:	Soil Testing Services
Elevation:	0		
Elevref:	GL		
Total dept:	45		
Wformation:	Not Reported		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	0		
Shapex:	-87.87278105		
Shapey:	42.37655977		
Site id:	IL10259575		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

H29
SW
1/2 - 1 Mile
Higher

IL WELLS IL10259815

Source:	IL Water Wells Records		
Objectid:	129247		
Api:	120974645800	Status:	ENG
Longitude:	-87.874375		
Latitude:	42.377324		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	STS job 17097
Farm num:	B-31	Company na:	Soil Testing Services
Elevation:	0		
Elevref:	GL		
Total dept:	47		
Wformation:	Not Reported		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	0		
Shapex:	-87.87450013		
Shapey:	42.37734876		
Site id:	IL10259815		

I30
WSW
1/2 - 1 Mile
Higher

IL WELLS IL10261107

Source:	IL Water Wells Records		
Objectid:	92506		
Api:	120973676400	Status:	WATER
Longitude:	-87.877906		
Latitude:	42.381748		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Anderson, Rhonda
Farm num:	Not Reported	Company na:	Gross, Eugene J.
Elevation:	719		
Elevref:	Not Reported		
Total dept:	92		
Wformation:	sand & gravel		
Wfmfrom:	88		
Wfmto:	92		
Pumpgpm:	15		
Shapex:	-87.87803237		
Shapey:	42.3817727		
Site id:	IL10261107		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

H31
SW
1/2 - 1 Mile
Higher

IL WELLS IL10259830

Source:	IL Water Wells Records		
Objectid:	176283		
Api:	120972564100	Status:	WATER
Longitude:	-87.874512		
Latitude:	42.377375		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Busch & Larson
Farm num:	Not Reported	Company na:	Boysen, Henry Co.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	65		
Wformation:	gravel		
Wfmfrom:	61		
Wfmto:	65		
Pumpgpm:	10		
Shapex:	-87.87463714		
Shapey:	42.37739976		
Site id:	IL10259830		

G32
WSW
1/2 - 1 Mile
Higher

IL WELLS IL10261320

Source:	IL Water Wells Records		
Objectid:	221196		
Api:	120973586300	Status:	WATER
Longitude:	-87.878117		
Latitude:	42.382239		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Tiegland, Randy
Farm num:	Not Reported	Company na:	Gross, Eugene J.
Elevation:	719		
Elevref:	Not Reported		
Total dept:	103		
Wformation:	sand & gravel		
Wfmfrom:	93		
Wfmto:	103		
Pumpgpm:	10		
Shapex:	-87.87824339		
Shapey:	42.38226369		
Site id:	IL10261320		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

F33
SW
1/2 - 1 Mile
Higher

IL WELLS IL10259693

Source:	IL Water Wells Records		
Objectid:	266314		
Api:	120974551300	Status:	WATER
Longitude:	-87.873686		
Latitude:	42.376789		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Wendricks, Kelly
Farm num:	1	Company na:	Wauchholder Well Drilling
Elevation:	707		
Elevref:	GP		
Total dept:	101		
Wformation:	sand & fine gravel		
Wfmfrom:	97		
Wfmto:	101		
Pumpgpm:	20		
Shapex:	-87.87381109		
Shapey:	42.37681377		
Site id:	IL10259693		

H34
SW
1/2 - 1 Mile
Higher

IL WELLS IL10259889

Source:	IL Water Wells Records		
Objectid:	39799		
Api:	120970174700	Status:	WATER
Longitude:	-87.875067		
Latitude:	42.377589		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Miloskevic, Dragolud
Farm num:	Not Reported	Company na:	Edwards Harry J
Elevation:	0		
Elevref:	Not Reported		
Total dept:	78		
Wformation:	deepened well		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	0		
Shapex:	-87.87519317		
Shapey:	42.37761375		
Site id:	IL10259889		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

H35
SW
 1/2 - 1 Mile
 Higher

IL WELLS IL10259890

Source:	IL Water Wells Records		
Objectid:	76913		
Api:	120970174100	Status:	WATER
Longitude:	-87.875067		
Latitude:	42.377589		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Bottle, Eugene
Farm num:	Not Reported	Company na:	Edwards Harry J
Elevation:	0		
Elevref:	Not Reported		
Total dept:	60		
Wformation:	Not Reported		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	0		
Shapex:	-87.87519317		
Shapey:	42.37761375		
Site id:	IL10259890		

H36
SW
 1/2 - 1 Mile
 Higher

IL WELLS IL10259891

Source:	IL Water Wells Records		
Objectid:	212937		
Api:	120973585700	Status:	WATER
Longitude:	-87.875067		
Latitude:	42.377589		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Mitrovic, Radisaw
Farm num:	Not Reported	Company na:	Gross, Eugene J.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	212		
Wformation:	rock		
Wfmfrom:	190		
Wfmto:	212		
Pumpgpm:	5		
Shapex:	-87.87519317		
Shapey:	42.37761375		
Site id:	IL10259891		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

H37
SW
1/2 - 1 Mile
Higher

IL WELLS IL10259644

Source:	IL Water Wells Records		
Objectid:	85079		
Api:	120970006600	Status:	WATER
Longitude:	-87.873852		
Latitude:	42.376672		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Hergos, Ralph
Farm num:	1	Company na:	Wertz, C. L.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	53		
Wformation:	sand		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	10		
Shapex:	-87.8739771		
Shapey:	42.37669677		
Site id:	IL10259644		

J38
West
1/2 - 1 Mile
Higher

IL WELLS IL10262117

Source:	IL Water Wells Records		
Objectid:	12991		
Api:	120972647400	Status:	WATER
Longitude:	-87.87867		
Latitude:	42.385538		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Busch & Larson
Farm num:	Not Reported	Company na:	Gaffke, George E.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	102		
Wformation:	sand & gravel		
Wfmfrom:	98		
Wfmto:	102		
Pumpgpm:	10		
Shapex:	-87.87879547		
Shapey:	42.38556265		
Site id:	IL10262117		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

G39
West
1/2 - 1 Mile
Higher

IL WELLS IL10261411

Source:	IL Water Wells Records		
Objectid:	229470		
Api:	120973585900	Status:	WATER
Longitude:	-87.878551		
Latitude:	42.382600		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Progressive Builders
Farm num:	Not Reported	Company na:	Gross, Eugene J.
Elevation:	716		
Elevref:	Not Reported		
Total dept:	102		
Wformation:	gravel		
Wfmfrom:	92		
Wfhto:	102		
Pumpgpm:	10		
Shapex:	-87.87867641		
Shapey:	42.38262469		
Site id:	IL10261411		

J40
West
1/2 - 1 Mile
Higher

IL WELLS IL10262163

Source:	IL Water Wells Records		
Objectid:	206073		
Api:	120974184900	Status:	WATER
Longitude:	-87.878649		
Latitude:	42.385758		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Flores, Ismael
Farm num:	Not Reported	Company na:	Boyce, Kenneth D.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	83		
Wformation:	sand		
Wfmfrom:	80		
Wfhto:	83		
Pumpgpm:	10		
Shapex:	-87.87877547		
Shapey:	42.38578265		
Site id:	IL10262163		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

K41
SSW
1/2 - 1 Mile
Higher

IL WELLS IL10259370

Source:	IL Water Wells Records		
Objectid:	136284		
Api:	120972648400	Status:	WATER
Longitude:	-87.87184		
Latitude:	42.375527		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Grana Construction Co.
Farm num:	Not Reported	Company na:	Lichter, John P.
Elevation:	710		
Elevref:	Not Reported		
Total dept:	99		
Wformation:	sand & gravel		
Wfmfrom:	94		
Wfmto:	99		
Pumpgpm:	20		
Shapex:	-87.87196499		
Shapey:	42.37555178		
Site id:	IL10259370		

L42
SW
1/2 - 1 Mile
Higher

IL WELLS IL10260146

Source:	IL Water Wells Records		
Objectid:	39996		
Api:	120974208500	Status:	WATER
Longitude:	-87.876283		
Latitude:	42.378503		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Binning Construction
Farm num:	Not Reported	Company na:	Boyce, Kenneth D.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	223		
Wformation:	limestone		
Wfmfrom:	222		
Wfmto:	223		
Pumpgpm:	20		
Shapex:	-87.87640824		
Shapey:	42.37852874		
Site id:	IL10260146		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

K43
SSW
1/2 - 1 Mile
Higher

IL WELLS IL10259439

Source:	IL Water Wells Records		
Objectid:	1022		
Api:	120972542000	Status:	WATER
Longitude:	-87.87246		
Latitude:	42.375690		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Grana Const. Co.
Farm num:	Not Reported	Company na:	Boysen, Henry Co.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	99		
Wformation:	sand-light gravel		
Wfmfrom:	94		
Wfmto:	99		
Pumpgpm:	20		
Shapex:	-87.87258502		
Shapey:	42.37571478		
Site id:	IL10259439		

K44
SSW
1/2 - 1 Mile
Higher

IL WELLS IL10259451

Source:	IL Water Wells Records		
Objectid:	221016		
Api:	120973585100	Status:	WATER
Longitude:	-87.872645		
Latitude:	42.375758		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Bartz, William
Farm num:	Not Reported	Company na:	Gross, Eugene J.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	98		
Wformation:	gravel		
Wfmfrom:	90		
Wfmto:	98		
Pumpgpm:	10		
Shapex:	-87.87277003		
Shapey:	42.37578278		
Site id:	IL10259451		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

L45
SW
1/2 - 1 Mile
Higher

IL WELLS IL10260083

Source:	IL Water Wells Records		
Objectid:	139390		
Api:	120972648700	Status:	WATER
Longitude:	-87.876401		
Latitude:	42.378359		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Rajuniec, Ed
Farm num:	Not Reported	Company na:	Hoover, L. R.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	70		
Wformation:	gravel		
Wfmfrom:	68		
Wfmto:	70		
Pumpgpm:	7		
Shapex:	-87.87652624		
Shapey:	42.37838374		
Site id:	IL10260083		

I46
WSW
1/2 - 1 Mile
Higher

IL WELLS IL10261108

Source:	IL Water Wells Records		
Objectid:	275480		
Api:	120973731800	Status:	WATER
Longitude:	-87.878568		
Latitude:	42.381751		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Modern Home Bldrs.
Farm num:	Not Reported	Company na:	Gaffke, George E.
Elevation:	720		
Elevref:	Not Reported		
Total dept:	90		
Wformation:	sand & gravel		
Wfmfrom:	86		
Wfmto:	90		
Pumpgpm:	0		
Shapex:	-87.87869339		
Shapey:	42.3817757		
Site id:	IL10261108		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

M47
SW
1/2 - 1 Mile
Higher

IL WELLS IL10259458

Source:	IL Water Wells Records		
Objectid:	210391		
Api:	120972648300	Status:	WATER
Longitude:	-87.8732		
Latitude:	42.375834		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Eubanks, William
Farm num:	Not Reported	Company na:	Hoover, L. R.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	97		
Wformation:	sand		
Wfmfrom:	93		
Wfmto:	97		
Pumpgpm:	14		
Shapex:	-87.87332505		
Shapey:	42.37585978		
Site id:	IL10259458		

I48
WSW
1/2 - 1 Mile
Higher

IL WELLS IL10261182

Source:	IL Water Wells Records		
Objectid:	12685		
Api:	120972564300	Status:	WATER
Longitude:	-87.879011		
Latitude:	42.382000		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Busch & Larson
Farm num:	Not Reported	Company na:	Boysen, Henry Co.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	115		
Wformation:	gravel		
Wfmfrom:	113		
Wfmto:	115		
Pumpgpm:	5		
Shapex:	-87.87913742		
Shapey:	42.38202469		
Site id:	IL10261182		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

L49
SW
1/2 - 1 Mile
Higher

IL WELLS IL10259942

Source:	IL Water Wells Records		
Objectid:	285774		
Api:	120972564900	Status:	WATER
Longitude:	-87.876318		
Latitude:	42.377807		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Lampella, Rich Bldrs.
Farm num:	Not Reported	Company na:	Boysen, Henry Co.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	75		
Wformation:	gravel		
Wfmfrom:	70		
Wfmto:	75		
Pumpgpm:	10		
Shapex:	-87.87644322		
Shapey:	42.37783175		
Site id:	IL10259942		

N50
WSW
1/2 - 1 Mile
Higher

IL WELLS IL10260794

Source:	IL Water Wells Records		
Objectid:	23224		
Api:	120972648200	Status:	WATER
Longitude:	-87.87858		
Latitude:	42.380757		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Dependable Builders
Farm num:	Not Reported	Company na:	Gaffke, George E.
Elevation:	711		
Elevref:	Not Reported		
Total dept:	67		
Wformation:	sand & gravel		
Wfmfrom:	64		
Wfmto:	67		
Pumpgpm:	10		
Shapex:	-87.87870638		
Shapey:	42.38078171		
Site id:	IL10260794		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

M51
SW
1/2 - 1 Mile
Higher

IL WELLS IL10259486

Source:	IL Water Wells Records		
Objectid:	245826		
Api:	120972587600	Status:	WATER
Longitude:	-87.874166		
Latitude:	42.375982		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Zwicke, Richard
Farm num:	Not Reported	Company na:	Gross, Emil E.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	75		
Wformation:	sand		
Wfmfrom:	73		
Wfmto:	75		
Pumpgpm:	15		
Shapex:	-87.8742911		
Shapey:	42.37600677		
Site id:	IL10259486		

52
SW
1/2 - 1 Mile
Higher

IL WELLS IL10259840

Source:	IL Water Wells Records		
Objectid:	275225		
Api:	120974645700	Status:	ENG
Longitude:	-87.876131		
Latitude:	42.377397		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	STS job 17097
Farm num:	B-30	Company na:	Soil Testing Services
Elevation:	720		
Elevref:	GL		
Total dept:	47		
Wformation:	Not Reported		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	0		
Shapex:	-87.87625621		
Shapey:	42.37742175		
Site id:	IL10259840		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

O53
WSW
1/2 - 1 Mile
Higher

IL WELLS IL10260320

Source:	IL Water Wells Records		
Objectid:	272228		
Api:	120972936300	Status:	WATER
Longitude:	-87.877947		
Latitude:	42.379123		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Henderson, Carl
Farm num:	Not Reported	Company na:	Gross, Michael
Elevation:	720		
Elevref:	Not Reported		
Total dept:	228		
Wformation:	limestone		
Wfmfrom:	221		
Wfmto:	228		
Pumpgpm:	6		
Shapex:	-87.87807232		
Shapey:	42.37914773		
Site id:	IL10260320		

N54
WSW
1/2 - 1 Mile
Higher

IL WELLS IL10260662

Source:	IL Water Wells Records		
Objectid:	89297		
Api:	120973585800	Status:	WATER
Longitude:	-87.878724		
Latitude:	42.380335		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Progressive Builders
Farm num:	Not Reported	Company na:	Gross, Eugene J.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	98		
Wformation:	gravel		
Wfmfrom:	85		
Wfmto:	98		
Pumpgpm:	10		
Shapex:	-87.87885037		
Shapey:	42.38035971		
Site id:	IL10260662		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

N55
WSW
1/2 - 1 Mile
Higher

IL WELLS IL10260663

Source:	IL Water Wells Records		
Objectid:	284695		
Api:	120972798500	Status:	WATER
Longitude:	-87.878724		
Latitude:	42.380335		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Gust, Fred
Farm num:	Not Reported	Company na:	Boyce, Kenneth D.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	230		
Wformation:	limestone		
Wfmfrom:	225		
Wfmto:	230		
Pumpgpm:	20		
Shapex:	-87.87885037		
Shapey:	42.38035971		
Site id:	IL10260663		

K56
SSW
1/2 - 1 Mile
Higher

IL WELLS IL10259285

Source:	IL Water Wells Records		
Objectid:	174161		
Api:	120974642300	Status:	ENG
Longitude:	-87.872684		
Latitude:	42.375037		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	STS job 17097
Farm num:	B-34	Company na:	Soil Testing Services
Elevation:	0		
Elevref:	GL		
Total dept:	47		
Wformation:	Not Reported		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	0		
Shapex:	-87.87280902		
Shapey:	42.37506179		
Site id:	IL10259285		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

P57
WSW
1/2 - 1 Mile
Higher

IL WELLS IL10261116

Source:	IL Water Wells Records		
Objectid:	100526		
Api:	120972587000	Status:	WATER
Longitude:	-87.879384		
Latitude:	42.381795		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Kangas Const.
Farm num:	Not Reported	Company na:	Hoover, L. R.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	94		
Wformation:	gravel		
Wfmfrom:	93		
Wfmto:	94		
Pumpgpm:	12		
Shapex:	-87.87950943		
Shapey:	42.3818197		
Site id:	IL10261116		

L58
SW
1/2 - 1 Mile
Higher

IL WELLS IL10259953

Source:	IL Water Wells Records		
Objectid:	76988		
Api:	120974906300	Status:	WATER
Longitude:	-87.877226		
Latitude:	42.377882		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Gust, Fred
Farm num:	Not Reported	Company na:	Boyce, Kenneth D.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	228		
Wformation:	limestone		
Wfmfrom:	223		
Wfmto:	228		
Pumpgpm:	15		
Shapex:	-87.87735226		
Shapey:	42.37790675		
Site id:	IL10259953		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

Q59
West
1/2 - 1 Mile
Higher

IL WELLS IL10261878

Source:	IL Water Wells Records		
Objectid:	138960		
Api:	120973807600	Status:	WATER
Longitude:	-87.880068		
Latitude:	42.384399		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Hacker, William
Farm num:	Not Reported	Company na:	Gross, Michael
Elevation:	719		
Elevref:	Not Reported		
Total dept:	102		
Wformation:	gravel & sand		
Wfmfrom:	97		
Wfmto:	102		
Pumpgpm:	14		
Shapex:	-87.88019451		
Shapey:	42.38442366		
Site id:	IL10261878		

R60
SSW
1/2 - 1 Mile
Higher

IL WELLS IL10258918

Source:	IL Water Wells Records		
Objectid:	40429		
Api:	120974645900	Status:	ENG
Longitude:	-87.868982		
Latitude:	42.373566		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	STS job 17097
Farm num:	B-37	Company na:	Soil Testing Services
Elevation:	0		
Elevref:	GL		
Total dept:	37		
Wformation:	Not Reported		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	0		
Shapex:	-87.86910683		
Shapey:	42.37359081		
Site id:	IL10258918		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

S61
West
1/2 - 1 Mile
Higher

IL WELLS IL10261576

Source:	IL Water Wells Records		
Objectid:	56331		
Api:	120974233500	Status:	WATER
Longitude:	-87.880095		
Latitude:	42.383133		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Westerlund, Alvin
Farm num:	Not Reported	Company na:	Boyce, Kenneth D.
Elevation:	717		
Elevref:	Not Reported		
Total dept:	92		
Wformation:	sand		
Wfmfrom:	88		
Wfmto:	92		
Pumpgpm:	18		
Shapex:	-87.88022049		
Shapey:	42.38315768		
Site id:	IL10261576		

T62
South
1/2 - 1 Mile
Higher

IL WELLS IL10258792

Source:	IL Water Wells Records		
Objectid:	76748		
Api:	120974642900	Status:	ENG
Longitude:	-87.865234		
Latitude:	42.373095		
Section :	17		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	STS job 17097
Farm num:	B-41	Company na:	Soil Testing Services
Elevation:	0		
Elevref:	GL		
Total dept:	45		
Wformation:	Not Reported		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	0		
Shapex:	-87.86535767		
Shapey:	42.37311982		
Site id:	IL10258792		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

Q63
West
1/2 - 1 Mile
Higher

IL WELLS IL10261758

Source:	IL Water Wells Records		
Objectid:	130472		
Api:	120973585500	Status:	WATER
Longitude:	-87.8803		
Latitude:	42.384017		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Lowrance, Ray
Farm num:	Not Reported	Company na:	Gritzner, Edward John
Elevation:	718		
Elevref:	Not Reported		
Total dept:	91		
Wformation:	sand		
Wfmfrom:	0		
Wfmto:	91		
Pumpgpm:	20		
Shapex:	-87.88042651		
Shapey:	42.38404167		
Site id:	IL10261758		

U64
SSE
1/2 - 1 Mile
Lower

IL WELLS IL10259036

Source:	IL Water Wells Records		
Objectid:	74807		
Api:	120974643300	Status:	ENG
Longitude:	-87.858854		
Latitude:	42.374062		
Section :	17		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	STS job 17097
Farm num:	B-45	Company na:	Soil Testing Services
Elevation:	0		
Elevref:	GL		
Total dept:	35		
Wformation:	Not Reported		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	0		
Shapex:	-87.85897742		
Shapey:	42.37408682		
Site id:	IL10259036		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

S65
West
1/2 - 1 Mile
Higher

IL WELLS IL10261495

Source:	IL Water Wells Records		
Objectid:	33961		
Api:	120972495900	Status:	WATER
Longitude:	-87.880211		
Latitude:	42.382784		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Brooks Builders
Farm num:	Not Reported	Company na:	Boysen, Henry Co.,Lichter,John
Elevation:	0		
Elevref:	Not Reported		
Total dept:	83		
Wformation:	gravel & sand		
Wfmfrom:	70		
Wfmto:	83		
Pumpgpm:	12		
Shapex:	-87.88033648		
Shapey:	42.38280868		
Site id:	IL10261495		

P66
West
1/2 - 1 Mile
Higher

IL WELLS IL10261322

Source:	IL Water Wells Records		
Objectid:	243613		
Api:	120973614200	Status:	WATER
Longitude:	-87.880113		
Latitude:	42.382246		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Pietschman, John
Farm num:	Not Reported	Company na:	Gross, Michael
Elevation:	716		
Elevref:	Not Reported		
Total dept:	89		
Wformation:	sand & gravel		
Wfmfrom:	83		
Wfmto:	89		
Pumpgpm:	15		
Shapex:	-87.88023847		
Shapey:	42.38227069		
Site id:	IL10261322		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

67
SSE
1/2 - 1 Mile
Lower

IL WELLS IL10258894

Source:	IL Water Wells Records		
Objectid:	238748		
Api:	120974643200	Status:	ENG
Longitude:	-87.860797		
Latitude:	42.373451		
Section :	17		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	STS job 17097
Farm num:	B-44	Company na:	Soil Testing Services
Elevation:	0		
Elevref:	GL		
Total dept:	35		
Wformation:	Not Reported		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	0		
Shapex:	-87.86092049		
Shapey:	42.37347683		
Site id:	IL10258894		

O68
WSW
1/2 - 1 Mile
Higher

IL WELLS IL10260459

Source:	IL Water Wells Records		
Objectid:	104347		
Api:	120973413000	Status:	WATER
Longitude:	-87.879034		
Latitude:	42.379647		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Teigland, R.
Farm num:	Not Reported	Company na:	Gross, Eugene J.
Elevation:	715		
Elevref:	Not Reported		
Total dept:	86		
Wformation:	gravel		
Wfmfrom:	76		
Wfmto:	86		
Pumpgpm:	10		
Shapex:	-87.87916037		
Shapey:	42.37967172		
Site id:	IL10260459		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

M69
SW
1/2 - 1 Mile
Higher

IL WELLS IL10259326

Source:	IL Water Wells Records		
Objectid:	172348		
Api:	120973106300	Status:	WATER
Longitude:	-87.874149		
Latitude:	42.375175		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Mordhorst Builders
Farm num:	Not Reported	Company na:	Gross, Michael
Elevation:	719		
Elevref:	Not Reported		
Total dept:	74		
Wformation:	sand-gravel		
Wfmfrom:	69		
Wfmto:	74		
Pumpgpm:	0		
Shapex:	-87.87427408		
Shapey:	42.37519978		
Site id:	IL10259326		

O70
WSW
1/2 - 1 Mile
Higher

IL WELLS IL10260390

Source:	IL Water Wells Records		
Objectid:	117443		
Api:	120972587100	Status:	WATER
Longitude:	-87.878857		
Latitude:	42.379295		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Smythe Construction Co.
Farm num:	1	Company na:	Hoover, L. R.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	82		
Wformation:	gravel		
Wfmfrom:	81		
Wfmto:	82		
Pumpgpm:	12		
Shapex:	-87.87898236		
Shapey:	42.37931973		
Site id:	IL10260390		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

V71
SW
1/2 - 1 Mile
Higher

IL WELLS IL10259356

Source:	IL Water Wells Records		
Objectid:	286150		
Api:	120972587700	Status:	WATER
Longitude:	-87.874549		
Latitude:	42.375365		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Zwicke, Richard
Farm num:	Not Reported	Company na:	Gross, Emil E.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	75		
Wformation:	sand & gravel		
Wfmfrom:	74		
Wfmto:	75		
Pumpgpm:	10		
Shapex:	-87.8746741		
Shapey:	42.37538978		
Site id:	IL10259356		

U72
SSE
1/2 - 1 Mile
Lower

IL WELLS IL10259083

Source:	IL Water Wells Records		
Objectid:	61366		
Api:	120974643400	Status:	ENG
Longitude:	-87.857654		
Latitude:	42.374329		
Section :	17		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	STS job 17097
Farm num:	B-46	Company na:	Soil Testing Services
Elevation:	0		
Elevref:	GL		
Total dept:	42		
Wformation:	Not Reported		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	0		
Shapex:	-87.85777837		
Shapey:	42.37435482		
Site id:	IL10259083		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

T73
South
1/2 - 1 Mile
Higher

IL WELLS IL10258758

Source:	IL Water Wells Records		
Objectid:	242222		
Api:	120974643000	Status:	ENG
Longitude:	-87.864328		
Latitude:	42.372923		
Section :	17		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	STS job 17097
Farm num:	B-42	Company na:	Soil Testing Services
Elevation:	0		
Elevref:	GL		
Total dept:	32		
Wformation:	Not Reported		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	0		
Shapex:	-87.86445163		
Shapey:	42.37294783		
Site id:	IL10258758		

74
South
1/2 - 1 Mile
Lower

IL WELLS IL10258785

Source:	IL Water Wells Records		
Objectid:	68900		
Api:	120974643100	Status:	ENG
Longitude:	-87.862463		
Latitude:	42.373066		
Section :	17		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	STS job 17097
Farm num:	B-43	Company na:	Soil Testing Services
Elevation:	0		
Elevref:	GL		
Total dept:	35		
Wformation:	Not Reported		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	0		
Shapex:	-87.86258755		
Shapey:	42.37309083		
Site id:	IL10258785		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

O75
WSW
1/2 - 1 Mile
Higher

IL WELLS IL10260052

Source:	IL Water Wells Records		
Objectid:	12830		
Api:	120972995500	Status:	WATER
Longitude:	-87.878183		
Latitude:	42.378270		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Hayhurst, Richard & Linda
Farm num:	Not Reported	Company na:	Hoover, Lonny R.
Elevation:	726		
Elevref:	Not Reported		
Total dept:	80		
Wformation:	sand & gravel		
Wfmfrom:	78		
Wfmto:	80		
Pumpgpm:	8		
Shapex:	-87.87830831		
Shapey:	42.37829474		
Site id:	IL10260052		

S76
West
1/2 - 1 Mile
Higher

IL WELLS IL10261575

Source:	IL Water Wells Records		
Objectid:	217426		
Api:	120973634500	Status:	WATER
Longitude:	-87.880537		
Latitude:	42.383133		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Naden, Jeff
Farm num:	Not Reported	Company na:	Gaffke, George E.
Elevation:	717		
Elevref:	Not Reported		
Total dept:	71		
Wformation:	sand & gravel		
Wfmfrom:	67		
Wfmto:	71		
Pumpgpm:	0		
Shapex:	-87.8806635		
Shapey:	42.38315768		
Site id:	IL10261575		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

N77
WSW
1/2 - 1 Mile
Higher

IL WELLS IL10260562

Source:	IL Water Wells Records		
Objectid:	22522		
Api:	120973585000	Status:	WATER
Longitude:	-87.879468		
Latitude:	42.379997		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Bank of Waukegan
Farm num:	Not Reported	Company na:	Gross, Eugene J.
Elevation:	713		
Elevref:	Not Reported		
Total dept:	88		
Wformation:	gravel		
Wfmfrom:	78		
Wfmto:	88		
Pumpgpm:	10		
Shapex:	-87.8795934		
Shapey:	42.38002172		
Site id:	IL10260562		

78
SSW
1/2 - 1 Mile
Higher

IL WELLS IL10258925

Source:	IL Water Wells Records		
Objectid:	255333		
Api:	120974642500	Status:	ENG
Longitude:	-87.870842		
Latitude:	42.373613		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	STS job 17097
Farm num:	B-36	Company na:	Soil Testing Services
Elevation:	0		
Elevref:	GL		
Total dept:	40		
Wformation:	Not Reported		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	0		
Shapex:	-87.87096691		
Shapey:	42.37363781		
Site id:	IL10258925		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

79
WSW
1/2 - 1 Mile
Higher

IL WELLS IL10260449

Source:	IL Water Wells Records		
Objectid:	88729		
Api:	120972587300	Status:	WATER
Longitude:	-87.879411		
Latitude:	42.379578		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Smythe Construction Co.
Farm num:	Not Reported	Company na:	Hoover, L. R.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	83		
Wformation:	gravel		
Wfmfrom:	81		
Wfmto:	83		
Pumpgpm:	15		
Shapex:	-87.87953739		
Shapey:	42.37960272		
Site id:	IL10260449		

O80
WSW
1/2 - 1 Mile
Higher

IL WELLS IL10260155

Source:	IL Water Wells Records		
Objectid:	72077		
Api:	120974842400	Status:	WATER
Longitude:	-87.878745		
Latitude:	42.378531		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Lopez, Leopold
Farm num:	Not Reported	Company na:	Boyce, Kenneth D.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	95		
Wformation:	sand		
Wfmfrom:	93		
Wfmto:	95		
Pumpgpm:	20		
Shapex:	-87.87887134		
Shapey:	42.37855574		
Site id:	IL10260155		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

V81
SW
1/2 - 1 Mile
Higher

IL WELLS IL10259368

Source:	IL Water Wells Records		
Objectid:	21193		
Api:	120972482800	Status:	WATER
Longitude:	-87.875381		
Latitude:	42.375511		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Zwicke, Richard
Farm num:	Not Reported	Company na:	Boysen, Henry Co.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	73		
Wformation:	gravel		
Wfmfrom:	70		
Wfmto:	73		
Pumpgpm:	0		
Shapex:	-87.87550614		
Shapey:	42.37553578		
Site id:	IL10259368		

W82
SW
1/2 - 1 Mile
Higher

IL WELLS IL10259864

Source:	IL Water Wells Records		
Objectid:	171793		
Api:	120974642000	Status:	ENG
Longitude:	-87.877835		
Latitude:	42.377461		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	STS job 17097
Farm num:	B-29	Company na:	Soil Testing Services
Elevation:	729		
Elevref:	GL		
Total dept:	61		
Wformation:	Not Reported		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	0		
Shapex:	-87.87796028		
Shapey:	42.37748575		
Site id:	IL10259864		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

W83
WSW
1/2 - 1 Mile
Higher

IL WELLS IL10259962

Source:	IL Water Wells Records		
Objectid:	1746		
Api:	120973586100	Status:	WATER
Longitude:	-87.878262		
Latitude:	42.377910		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Sanchez, Arthur
Farm num:	Not Reported	Company na:	Gross, Eugene J.
Elevation:	725		
Elevref:	Not Reported		
Total dept:	98		
Wformation:	gravel		
Wfmfrom:	90		
Wfmto:	98		
Pumpgpm:	10		
Shapex:	-87.87838831		
Shapey:	42.37793474		
Site id:	IL10259962		

O84
WSW
1/2 - 1 Mile
Higher

IL WELLS IL10260113

Source:	IL Water Wells Records		
Objectid:	253558		
Api:	120972468200	Status:	WATER
Longitude:	-87.878766		
Latitude:	42.378454		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	McGraw, Ben
Farm num:	Not Reported	Company na:	Hoover, L. R.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	225		
Wformation:	limestone		
Wfmfrom:	223		
Wfmto:	225		
Pumpgpm:	12		
Shapex:	-87.87889134		
Shapey:	42.37847874		
Site id:	IL10260113		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

85
WNW
1/2 - 1 Mile
Higher

IL WELLS IL10263080

Source:	IL Water Wells Records		
Objectid:	71364		
Api:	120974073300	Status:	WATER
Longitude:	-87.879007		
Latitude:	42.390049		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Centurion Const.
Farm num:	Not Reported	Company na:	Gross, Michael
Elevation:	724		
Elevref:	Not Reported		
Total dept:	100		
Wformation:	sand & gravel		
Wfmfrom:	97		
Wfmto:	100		
Pumpgpm:	6		
Shapex:	-87.87913257		
Shapey:	42.3900736		
Site id:	IL10263080		

86
NNW
1/2 - 1 Mile
Higher

IL WELLS IL10264553

Source:	IL Water Wells Records		
Objectid:	116781		
Api:	120972514000	Status:	WATER
Longitude:	-87.869774		
Latitude:	42.395652		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Fallos, Laverne
Farm num:	Not Reported	Company na:	Gross, Eugene
Elevation:	0		
Elevref:	Not Reported		
Total dept:	110		
Wformation:	gravel		
Wfmfrom:	5		
Wfmto:	10		
Pumpgpm:	10		
Shapex:	-87.86989929		
Shapey:	42.39567556		
Site id:	IL10264553		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

T87
South
1/2 - 1 Mile
Higher

IL WELLS IL10258638

Source:	IL Water Wells Records		
Objectid:	86342		
Api:	120974642800	Status:	ENG
Longitude:	-87.865742		
Latitude:	42.372534		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	STS job 17097
Farm num:	B-40	Company na:	Soil Testing Services
Elevation:	0		
Elevref:	GL		
Total dept:	45		
Wformation:	Not Reported		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	0		
Shapex:	-87.86586568		
Shapey:	42.37255883		
Site id:	IL10258638		

X88
SSW
1/2 - 1 Mile
Higher

IL WELLS IL10259002

Source:	IL Water Wells Records		
Objectid:	195590		
Api:	120974642400	Status:	ENG
Longitude:	-87.872704		
Latitude:	42.373897		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	STS job 17097
Farm num:	B-35	Company na:	Soil Testing Services
Elevation:	0		
Elevref:	GL		
Total dept:	40		
Wformation:	Not Reported		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	0		
Shapex:	-87.872829		
Shapey:	42.3739218		
Site id:	IL10259002		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

Q89
West
1/2 - 1 Mile
Higher

IL WELLS IL10261741

Source:	IL Water Wells Records		
Objectid:	165342		
Api:	120974745900	Status:	WATER
Longitude:	-87.88116		
Latitude:	42.383973		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Apple Const.
Farm num:	1	Company na:	Wauchholder Well Drilling
Elevation:	0		
Elevref:	Not Reported		
Total dept:	100		
Wformation:	sand & gravel		
Wfmfrom:	96		
Wfmto:	100		
Pumpgpm:	20		
Shapex:	-87.88128555		
Shapey:	42.38399767		
Site id:	IL10261741		

90
South
1/2 - 1 Mile
Higher

IL WELLS IL10258642

Source:	IL Water Wells Records		
Objectid:	35597		
Api:	120974642700	Status:	ENG
Longitude:	-87.867517		
Latitude:	42.372566		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	STS job 17097
Farm num:	B-39	Company na:	Soil Testing Services
Elevation:	0		
Elevref:	GL		
Total dept:	45		
Wformation:	Not Reported		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	0		
Shapex:	-87.86764075		
Shapey:	42.37259082		
Site id:	IL10258642		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

S91
West
1/2 - 1 Mile
Higher

IL WELLS IL10261420

Source:	IL Water Wells Records		
Objectid:	116893		
Api:	120973764400	Status:	WATER
Longitude:	-87.881018		
Latitude:	42.382613		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Bruner, Kenneth
Farm num:	Not Reported	Company na:	Gross, Eugene J.
Elevation:	717		
Elevref:	Not Reported		
Total dept:	94		
Wformation:	gravel		
Wfmfrom:	90		
Wfmto:	94		
Pumpgpm:	0		
Shapex:	-87.88114352		
Shapey:	42.38263768		
Site id:	IL10261420		

Y92
SE
1/2 - 1 Mile
Lower

IL WELLS IL10259096

Source:	IL Water Wells Records		
Objectid:	176909		
Api:	120974643500	Status:	ENG
Longitude:	-87.85608		
Latitude:	42.374427		
Section :	17		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	STS job 17097
Farm num:	B-47	Company na:	Soil Testing Services
Elevation:	0		
Elevref:	GL		
Total dept:	42		
Wformation:	Not Reported		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	0		
Shapex:	-87.85620431		
Shapey:	42.37445182		
Site id:	IL10259096		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

Z93
West
1/2 - 1 Mile
Higher

IL WELLS IL10262152

Source:	IL Water Wells Records		
Objectid:	262036		
Api:	120974237900	Status:	WATER
Longitude:	-87.881167		
Latitude:	42.385701		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Alatzakis, Paul
Farm num:	Not Reported	Company na:	Boyce, Kenneth D.
Elevation:	720		
Elevref:	Not Reported		
Total dept:	238		
Wformation:	limestone		
Wfmfrom:	233		
Wfmto:	238		
Pumpgpm:	10		
Shapex:	-87.88129258		
Shapey:	42.38572465		
Site id:	IL10262152		

X94
SSW
1/2 - 1 Mile
Higher

IL WELLS IL10259073

Source:	IL Water Wells Records		
Objectid:	137680		
Api:	120972496000	Status:	WATER
Longitude:	-87.873825		
Latitude:	42.374270		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Steimle, H.
Farm num:	Not Reported	Company na:	Hoover, L. R.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	96		
Wformation:	gravel		
Wfmfrom:	91		
Wfmto:	96		
Pumpgpm:	27		
Shapex:	-87.87395005		
Shapey:	42.37429479		
Site id:	IL10259073		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

Z95
West
1/2 - 1 Mile
Higher

IL WELLS IL10262156

Source:	IL Water Wells Records		
Objectid:	71157		
Api:	120972647500	Status:	WATER
Longitude:	-87.881169		
Latitude:	42.385734		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Busch & Larson
Farm num:	Not Reported	Company na:	Gaffke, George E.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	99		
Wformation:	gravel		
Wfmfrom:	94		
Wfmto:	99		
Pumpgpm:	15		
Shapex:	-87.88129558		
Shapey:	42.38575865		
Site id:	IL10262156		

AA96
NNW
1/2 - 1 Mile
Higher

IL WELLS IL10264478

Source:	IL Water Wells Records		
Objectid:	64628		
Api:	120970276900	Status:	WATER
Longitude:	-87.871503		
Latitude:	42.395454		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Werst, Paul
Farm num:	Not Reported	Company na:	Hoover Water Well Servic
Elevation:	0		
Elevref:	Not Reported		
Total dept:	82		
Wformation:	gravel		
Wfmfrom:	78		
Wfmto:	82		
Pumpgpm:	15		
Shapex:	-87.87162936		
Shapey:	42.39547855		
Site id:	IL10264478		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

R97
SSW
1/2 - 1 Mile
Higher

IL WELLS IL10258662

Source:	IL Water Wells Records		
Objectid:	139614		
Api:	120974642600	Status:	ENG
Longitude:	-87.869027		
Latitude:	42.372619		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	STS job 17097
Farm num:	B-38	Company na:	Soil Testing Services
Elevation:	0		
Elevref:	GL		
Total dept:	45		
Wformation:	Not Reported		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	0		
Shapex:	-87.86915182		
Shapey:	42.37264382		
Site id:	IL10258662		

AB98
West
1/2 - 1 Mile
Higher

IL WELLS IL10261761

Source:	IL Water Wells Records		
Objectid:	103127		
Api:	120973585300	Status:	WATER
Longitude:	-87.881411		
Latitude:	42.384023		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Brown, William A.
Farm num:	Not Reported	Company na:	Gritzner, Edward John
Elevation:	719		
Elevref:	Not Reported		
Total dept:	220		
Wformation:	limestone		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	12		
Shapex:	-87.88153756		
Shapey:	42.38404767		
Site id:	IL10261761		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

AC99
West
1/2 - 1 Mile
Higher

IL WELLS IL10261249

Source:	IL Water Wells Records		
Objectid:	214670		
Api:	120974296300	Status:	WATER
Longitude:	-87.881177		
Latitude:	42.382169		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Guzman, Miguel
Farm num:	Not Reported	Company na:	Boyce, Kenneth D.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	95		
Wformation:	gravel & sand		
Wfmfrom:	91		
Wfmto:	95		
Pumpgpm:	12		
Shapex:	-87.88130351		
Shapey:	42.38219369		
Site id:	IL10261249		

AC100
West
1/2 - 1 Mile
Higher

IL WELLS IL10261219

Source:	IL Water Wells Records		
Objectid:	26598		
Api:	120970294100	Status:	WATER
Longitude:	-87.881178		
Latitude:	42.382122		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Hebior, Eugene
Farm num:	Not Reported	Company na:	Hoover Water Well Servic
Elevation:	0		
Elevref:	Not Reported		
Total dept:	93		
Wformation:	gravel		
Wfmfrom:	91		
Wfmto:	93		
Pumpgpm:	15		
Shapex:	-87.88130451		
Shapey:	42.38214669		
Site id:	IL10261219		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

Y101
SE
1/2 - 1 Mile
Lower

IL WELLS IL10259095

Source:	IL Water Wells Records		
Objectid:	120169		
Api:	120974643600	Status:	ENG
Longitude:	-87.855612		
Latitude:	42.374426		
Section :	17		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	STS job 17097
Farm num:	B-48	Company na:	Soil Testing Services
Elevation:	0		
Elevref:	GL		
Total dept:	40		
Wformation:	Not Reported		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	0		
Shapex:	-87.85573629		
Shapey:	42.37445082		
Site id:	IL10259095		

AD102
WNW
1/2 - 1 Mile
Higher

IL WELLS IL10262584

Source:	IL Water Wells Records		
Objectid:	262215		
Api:	120974296200	Status:	WATER
Longitude:	-87.881098		
Latitude:	42.387606		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Paulson, Rich
Farm num:	Not Reported	Company na:	Boyce, Kenneth D.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	250		
Wformation:	limestone		
Wfmfrom:	247		
Wfmto:	250		
Pumpgpm:	18		
Shapex:	-87.88122461		
Shapey:	42.38763062		
Site id:	IL10262584		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

AC103
West
1/2 - 1 Mile
Higher

IL WELLS IL10261371

Source:	IL Water Wells Records		
Objectid:	90746		
Api:	120973585200	Status:	WATER
Longitude:	-87.881486		
Latitude:	42.382454		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Busch & Larson
Farm num:	Not Reported	Company na:	Gaffke, George E.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	68		
Wformation:	sand & gravel		
Wfmfrom:	65		
Wfmto:	68		
Pumpgpm:	10		
Shapex:	-87.88161253		
Shapey:	42.38247868		
Site id:	IL10261371		

AD104
WNW
1/2 - 1 Mile
Higher

IL WELLS IL10262557

Source:	IL Water Wells Records		
Objectid:	16417		
Api:	120972586800	Status:	WATER
Longitude:	-87.881156		
Latitude:	42.387524		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Paluckis, Mrs. Alex
Farm num:	Not Reported	Company na:	Hoover, L. R.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	235		
Wformation:	limestone & gravel		
Wfmfrom:	221		
Wfmto:	235		
Pumpgpm:	15		
Shapex:	-87.88128261		
Shapey:	42.38754863		
Site id:	IL10262557		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

AE105
WSW
1/2 - 1 Mile
Higher

IL WELLS IL10260589

Source:	IL Water Wells Records		
Objectid:	1065		
Api:	120972564400	Status:	WATER
Longitude:	-87.880706		
Latitude:	42.380141		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Busch & Larson
Farm num:	Not Reported	Company na:	Boysen, Henry Co.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	97		
Wformation:	gravel		
Wfmfrom:	94		
Wfmto:	97		
Pumpgpm:	5		
Shapex:	-87.88083145		
Shapey:	42.38016571		
Site id:	IL10260589		

106
North
1/2 - 1 Mile
Higher

IL WELLS IL10264907

Source:	IL Water Wells Records		
Objectid:	130686		
Api:	120970172400	Status:	WATER
Longitude:	-87.866753		
Latitude:	42.396700		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Blumberg, Maurice
Farm num:	Not Reported	Company na:	Brackett, B.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	201		
Wformation:	Not Reported		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	10		
Shapex:	-87.86687818		
Shapey:	42.39672355		
Site id:	IL10264907		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

Z107
West
1/2 - 1 Mile
Higher

IL WELLS IL10262244

Source:	IL Water Wells Records		
Objectid:	216164		
Api:	120973583200	Status:	WATER
Longitude:	-87.88166		
Latitude:	42.386178		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Derrick, Thomas
Farm num:	Not Reported	Company na:	Hoover, Lonny R.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	105		
Wformation:	sand & gravel		
Wfmfrom:	100		
Wfmto:	105		
Pumpgpm:	20		
Shapex:	-87.88178661		
Shapey:	42.38620264		
Site id:	IL10262244		

AB108
West
1/2 - 1 Mile
Higher

IL WELLS IL10261704

Source:	IL Water Wells Records		
Objectid:	233974		
Api:	120970140400	Status:	WATER
Longitude:	-87.881915		
Latitude:	42.383785		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Attaway, William
Farm num:	Not Reported	Company na:	Hoover Water Well Servic
Elevation:	0		
Elevref:	Not Reported		
Total dept:	96		
Wformation:	sand & gravel		
Wfmfrom:	93		
Wfmto:	96		
Pumpgpm:	20		
Shapex:	-87.88204058		
Shapey:	42.38380967		
Site id:	IL10261704		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

109
SSW
1/2 - 1 Mile
Higher

IL WELLS IL10258574

Source:	IL Water Wells Records		
Objectid:	127451		
Api:	120973167000	Status:	WATER
Longitude:	-87.869322		
Latitude:	42.372268		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Nommensen, Ken
Farm num:	Not Reported	Company na:	Gross, Michael
Elevation:	700		
Elevref:	Not Reported		
Total dept:	179		
Wformation:	clean sand-gravel		
Wfmfrom:	175		
Wfmto:	179		
Pumpgpm:	10		
Shapex:	-87.86944682		
Shapey:	42.37229283		
Site id:	IL10258574		

AB110
West
1/2 - 1 Mile
Higher

IL WELLS IL10261604

Source:	IL Water Wells Records		
Objectid:	129156		
Api:	120970290800	Status:	WATER
Longitude:	-87.881917		
Latitude:	42.383234		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Mathis, D. A.
Farm num:	Not Reported	Company na:	Hoover Water Well Servic
Elevation:	0		
Elevref:	Not Reported		
Total dept:	102		
Wformation:	gravel		
Wfmfrom:	94		
Wfmto:	102		
Pumpgpm:	15		
Shapex:	-87.88204256		
Shapey:	42.38325867		
Site id:	IL10261604		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

W111
SW
1/2 - 1 Mile
Higher

IL WELLS IL10259735

Source:	IL Water Wells Records		
Objectid:	61352		
Api:	120972564500	Status:	WATER
Longitude:	-87.878787		
Latitude:	42.376939		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Grana Const. Co.
Farm num:	Not Reported	Company na:	Boysen, Henry Co.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	66		
Wformation:	gravel		
Wfmfrom:	62		
Wfmto:	66		
Pumpgpm:	10		
Shapex:	-87.87891331		
Shapey:	42.37696376		
Site id:	IL10259735		

AF112
WNW
1/2 - 1 Mile
Higher

IL WELLS IL10263018

Source:	IL Water Wells Records		
Objectid:	261884		
Api:	120974110700	Status:	WATER
Longitude:	-87.880453		
Latitude:	42.389867		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Orusa, Steve
Farm num:	Not Reported	Company na:	Huemann, John J.
Elevation:	730		
Elevref:	Not Reported		
Total dept:	268		
Wformation:	limestone		
Wfmfrom:	258		
Wfmto:	268		
Pumpgpm:	30		
Shapex:	-87.88057963		
Shapey:	42.3898916		
Site id:	IL10263018		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

AG113
WSW
1/2 - 1 Mile
Higher

IL WELLS IL10259882

Source:	IL Water Wells Records		
Objectid:	79942		
Api:	120974641900	Status:	ENG
Longitude:	-87.879483		
Latitude:	42.377527		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	STS job 17097
Farm num:	B-28	Company na:	Soil Testing Services
Elevation:	714		
Elevref:	GL		
Total dept:	50		
Wformation:	Not Reported		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	0		
Shapex:	-87.87960835		
Shapey:	42.37755175		
Site id:	IL10259882		

W114
SW
1/2 - 1 Mile
Higher

IL WELLS IL10259659

Source:	IL Water Wells Records		
Objectid:	286263		
Api:	120974515600	Status:	WATER
Longitude:	-87.87877		
Latitude:	42.376724		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	First Southern Baptist Church
Farm num:	Not Reported	Company na:	Not Reported
Elevation:	0		
Elevref:	Not Reported		
Total dept:	0		
Wformation:	Not Reported		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	0		
Shapex:	-87.87889631		
Shapey:	42.37674876		
Site id:	IL10259659		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

115
WNW
1/2 - 1 Mile
Higher

IL WELLS IL10262791

Source:	IL Water Wells Records		
Objectid:	223814		
Api:	120972679300	Status:	WATER
Longitude:	-87.881393		
Latitude:	42.388657		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Busch & Larson
Farm num:	Not Reported	Company na:	Gaffke, George E.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	250		
Wformation:	limestone		
Wfmfrom:	247		
Wfmto:	250		
Pumpgpm:	40		
Shapex:	-87.88151864		
Shapey:	42.38868161		
Site id:	IL10262791		

AC116
West
1/2 - 1 Mile
Higher

IL WELLS IL10261275

Source:	IL Water Wells Records		
Objectid:	111224		
Api:	120972734300	Status:	WATER
Longitude:	-87.882135		
Latitude:	42.382187		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Modern Home Builders
Farm num:	Not Reported	Company na:	Gaffke, George E.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	93		
Wformation:	sand & gravel		
Wfmfrom:	87		
Wfmto:	93		
Pumpgpm:	15		
Shapex:	-87.88226155		
Shapey:	42.38221169		
Site id:	IL10261275		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

AF117
WNW
1/2 - 1 Mile
Higher

IL WELLS IL10262882

Source:	IL Water Wells Records		
Objectid:	31622		
Api:	120973653200	Status:	WATER
Longitude:	-87.881135		
Latitude:	42.389177		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Christensen, Al
Farm num:	Not Reported	Company na:	Gross, Michael
Elevation:	729		
Elevref:	Not Reported		
Total dept:	257		
Wformation:	limestone		
Wfmfrom:	250		
Wfhto:	257		
Pumpgpm:	0		
Shapex:	-87.88126164		
Shapey:	42.3892016		
Site id:	IL10262882		

AA118
NNW
1/2 - 1 Mile
Higher

IL WELLS IL10264781

Source:	IL Water Wells Records		
Objectid:	166992		
Api:	120973583400	Status:	WATER
Longitude:	-87.871565		
Latitude:	42.396287		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Hicks, Robert
Farm num:	Not Reported	Company na:	Gross, Emil E.
Elevation:	708		
Elevref:	Not Reported		
Total dept:	114		
Wformation:	gravel		
Wfmfrom:	107		
Wfhto:	114		
Pumpgpm:	12		
Shapex:	-87.87169038		
Shapey:	42.39631154		
Site id:	IL10264781		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

AE119
WSW
1/2 - 1 Mile
Higher

IL WELLS IL10260721

Source:	IL Water Wells Records		
Objectid:	88637		
Api:	120972564200	Status:	WATER
Longitude:	-87.881687		
Latitude:	42.380443		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Busch & Larson
Farm num:	Not Reported	Company na:	Boysen, Henry Co.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	91		
Wformation:	sand-gravel		
Wfmfrom:	86		
Wfmto:	91		
Pumpgpm:	15		
Shapex:	-87.8818125		
Shapey:	42.38046771		
Site id:	IL10260721		

AH120
SE
1/2 - 1 Mile
Lower

IL WELLS IL10259091

Source:	IL Water Wells Records		
Objectid:	88848		
Api:	120974643700	Status:	ENG
Longitude:	-87.853971		
Latitude:	42.374396		
Section :	17		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	STS job 17097
Farm num:	B-49	Company na:	Soil Testing Services
Elevation:	0		
Elevref:	GL		
Total dept:	42		
Wformation:	Not Reported		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	0		
Shapex:	-87.85409422		
Shapey:	42.37442083		
Site id:	IL10259091		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

AI121
West
1/2 - 1 Mile
Higher

IL WELLS IL10261569

Source:	IL Water Wells Records		
Objectid:	261968		
Api:	120970296500	Status:	WATER
Longitude:	-87.882474		
Latitude:	42.383101		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Wolden, James
Farm num:	Not Reported	Company na:	Hoover Water Well Servic
Elevation:	0		
Elevref:	Not Reported		
Total dept:	98		
Wformation:	gravel		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	15		
Shapex:	-87.88259958		
Shapey:	42.38312568		
Site id:	IL10261569		

AG122
SW
1/2 - 1 Mile
Higher

IL WELLS IL10259746

Source:	IL Water Wells Records		
Objectid:	112806		
Api:	120973438900	Status:	WATER
Longitude:	-87.879488		
Latitude:	42.377017		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	N & S Builders
Farm num:	Not Reported	Company na:	Boyce, Kenneth D.
Elevation:	716		
Elevref:	Not Reported		
Total dept:	102		
Wformation:	sand		
Wfmfrom:	97		
Wfmto:	102		
Pumpgpm:	10		
Shapex:	-87.87961334		
Shapey:	42.37704175		
Site id:	IL10259746		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

AG123
SW
1/2 - 1 Mile
Higher

IL WELLS IL10259747

Source:	IL Water Wells Records		
Objectid:	148664		
Api:	120973438800	Status:	WATER
Longitude:	-87.879488		
Latitude:	42.377017		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	N & S Construction
Farm num:	Not Reported	Company na:	Boyce, Kenneth D.
Elevation:	716		
Elevref:	Not Reported		
Total dept:	101		
Wformation:	sand		
Wfmfrom:	90		
Wfmto:	101		
Pumpgpm:	12		
Shapex:	-87.87961334		
Shapey:	42.37704175		
Site id:	IL10259747		

AG124
SW
1/2 - 1 Mile
Higher

IL WELLS IL10259664

Source:	IL Water Wells Records		
Objectid:	10069		
Api:	120972648100	Status:	WATER
Longitude:	-87.879257		
Latitude:	42.376736		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Busch & Larson
Farm num:	Not Reported	Company na:	Gaffke, George E.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	101		
Wformation:	sand-gravel		
Wfmfrom:	98		
Wfmto:	101		
Pumpgpm:	10		
Shapex:	-87.87938233		
Shapey:	42.37676076		
Site id:	IL10259664		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

AJ125
West
1/2 - 1 Mile
Higher

IL WELLS IL10262406

Source:	IL Water Wells Records		
Objectid:	10607		
Api:	120972495700	Status:	WATER
Longitude:	-87.882361		
Latitude:	42.386711		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Gust, Martin
Farm num:	Not Reported	Company na:	Gross, Eugene
Elevation:	0		
Elevref:	Not Reported		
Total dept:	214		
Wformation:	gravel		
Wfmfrom:	4		
Wfmto:	6		
Pumpgpm:	10		
Shapex:	-87.88248765		
Shapey:	42.38673563		
Site id:	IL10262406		

AJ126
West
1/2 - 1 Mile
Higher

IL WELLS IL10262407

Source:	IL Water Wells Records		
Objectid:	38866		
Api:	120972495800	Status:	WATER
Longitude:	-87.882361		
Latitude:	42.386711		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Levandoski, Stephan
Farm num:	Not Reported	Company na:	Gross, Eugene
Elevation:	0		
Elevref:	Not Reported		
Total dept:	118		
Wformation:	gravel		
Wfmfrom:	6		
Wfmto:	10		
Pumpgpm:	15		
Shapex:	-87.88248765		
Shapey:	42.38673563		
Site id:	IL10262407		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

AJ127
West
1/2 - 1 Mile
Higher

IL WELLS IL10262408

Source:	IL Water Wells Records		
Objectid:	246598		
Api:	120973930400	Status:	WATER
Longitude:	-87.882361		
Latitude:	42.386711		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Redfield, Lawrence
Farm num:	Not Reported	Company na:	Boyce, Kenneth D.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	244		
Wformation:	limestone		
Wfmfrom:	230		
Wfmto:	244		
Pumpgpm:	4		
Shapex:	-87.88248765		
Shapey:	42.38673563		
Site id:	IL10262408		

AF128
WNW
1/2 - 1 Mile
Higher

IL WELLS IL10262963

Source:	IL Water Wells Records		
Objectid:	233427		
Api:	120972647200	Status:	WATER
Longitude:	-87.881378		
Latitude:	42.389444		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Busch & Larson
Farm num:	Not Reported	Company na:	Gaffke, George E.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	97		
Wformation:	sand-gravel		
Wfmfrom:	94		
Wfmto:	97		
Pumpgpm:	8		
Shapex:	-87.88150366		
Shapey:	42.3894686		
Site id:	IL10262963		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

AI129
West
1/2 - 1 Mile
Higher

IL WELLS IL10261326

Source:	IL Water Wells Records		
Objectid:	247177		
Api:	120973584900	Status:	WATER
Longitude:	-87.882546		
Latitude:	42.382267		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Sinesh, George
Farm num:	Not Reported	Company na:	Gritzner, Edward John
Elevation:	720		
Elevref:	Not Reported		
Total dept:	100		
Wformation:	sand		
Wfmfrom:	98		
Wfmto:	100		
Pumpgpm:	10		
Shapex:	-87.88267157		
Shapey:	42.38229168		
Site id:	IL10261326		

AD130
WNW
1/2 - 1 Mile
Higher

IL WELLS IL10262576

Source:	IL Water Wells Records		
Objectid:	211883		
Api:	120974552100	Status:	WATER
Longitude:	-87.88224		
Latitude:	42.387580		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Brown, Steve
Farm num:	Not Reported	Company na:	Boyce, Kenneth D.
Elevation:	717		
Elevref:	Not Reported		
Total dept:	238		
Wformation:	gravel/rubble		
Wfmfrom:	230		
Wfmto:	238		
Pumpgpm:	10		
Shapex:	-87.88236566		
Shapey:	42.38760462		
Site id:	IL10262576		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

AI131
West
1/2 - 1 Mile
Higher

IL WELLS IL10261430

Source:	IL Water Wells Records		
Objectid:	221534		
Api:	120973584800	Status:	WATER
Longitude:	-87.882649		
Latitude:	42.382621		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Cummins, Herehel
Farm num:	Not Reported	Company na:	Hoover, Lonny R.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	92		
Wformation:	sand		
Wfmfrom:	89		
Wfmto:	92		
Pumpgpm:	10		
Shapex:	-87.88277458		
Shapey:	42.38264568		
Site id:	IL10261430		

AJ132
West
1/2 - 1 Mile
Higher

IL WELLS IL10262348

Source:	IL Water Wells Records		
Objectid:	189219		
Api:	120970348800	Status:	WATER
Longitude:	-87.882618		
Latitude:	42.386546		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Teigland, Wallace
Farm num:	Not Reported	Company na:	Henry Boysen Co.,Lichter,John
Elevation:	0		
Elevref:	Not Reported		
Total dept:	87		
Wformation:	drift		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	10		
Shapex:	-87.88274366		
Shapey:	42.38657063		
Site id:	IL10262348		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

AK133
NW
1/2 - 1 Mile
Higher

IL WELLS IL10263465

Source:	IL Water Wells Records		
Objectid:	274651		
Api:	120973583900	Status:	WATER
Longitude:	-87.879588		
Latitude:	42.391999		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	W M Construction
Farm num:	Not Reported	Company na:	Gaffke, George E.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	238		
Wformation:	limestone		
Wfmfrom:	233		
Wfmto:	238		
Pumpgpm:	10		
Shapex:	-87.87971463		
Shapey:	42.39202358		
Site id:	IL10263465		

134
NW
1/2 - 1 Mile
Higher

IL WELLS IL10263752

Source:	IL Water Wells Records		
Objectid:	12588		
Api:	120973082800	Status:	WATER
Longitude:	-87.878511		
Latitude:	42.393035		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Keaton, Douglas
Farm num:	Not Reported	Company na:	Gaffke, George E.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	97		
Wformation:	sand		
Wfmfrom:	93		
Wfmto:	97		
Pumpgpm:	8		
Shapex:	-87.87863761		
Shapey:	42.39305856		
Site id:	IL10263752		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

AG135
WSW
1/2 - 1 Mile
Higher

IL WELLS IL10259848

Source:	IL Water Wells Records		
Objectid:	258334		
Api:	120972564700	Status:	WATER
Longitude:	-87.880269		
Latitude:	42.377435		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Lampella, Rich Bldrs.
Farm num:	Not Reported	Company na:	Boysen, Henry Co.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	98		
Wformation:	gravel		
Wfmfrom:	92		
Wfmto:	98		
Pumpgpm:	15		
Shapex:	-87.88039438		
Shapey:	42.37745975		
Site id:	IL10259848		

AL136
WSW
1/2 - 1 Mile
Higher

IL WELLS IL10260209

Source:	IL Water Wells Records		
Objectid:	188579		
Api:	120972468100	Status:	WATER
Longitude:	-87.881192		
Latitude:	42.378615		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Kantola, Ed
Farm num:	Not Reported	Company na:	Hoover, L. R.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	94		
Wformation:	gravel		
Wfmfrom:	93		
Wfmto:	94		
Pumpgpm:	6		
Shapex:	-87.88131744		
Shapey:	42.37863973		
Site id:	IL10260209		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

AL137
WSW
1/2 - 1 Mile
Higher

IL WELLS IL10260160

Source:	IL Water Wells Records		
Objectid:	146328		
Api:	120974103200	Status:	WATER
Longitude:	-87.881212		
Latitude:	42.378555		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Anderson, William
Farm num:	Not Reported	Company na:	Boyce, Kenneth D.
Elevation:	710		
Elevref:	Not Reported		
Total dept:	78		
Wformation:	sand		
Wfmfrom:	75		
Wfmto:	78		
Pumpgpm:	25		
Shapex:	-87.88133744		
Shapey:	42.37857973		
Site id:	IL10260160		

AK138
NW
1/2 - 1 Mile
Higher

IL WELLS IL10263664

Source:	IL Water Wells Records		
Objectid:	107749		
Api:	120973583600	Status:	WATER
Longitude:	-87.879214		
Latitude:	42.392713		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Niemi, Richard
Farm num:	Not Reported	Company na:	Gross, Michael
Elevation:	730		
Elevref:	Not Reported		
Total dept:	108		
Wformation:	fine gravel		
Wfmfrom:	107		
Wfmto:	108		
Pumpgpm:	8		
Shapex:	-87.87934063		
Shapey:	42.39273757		
Site id:	IL10263664		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

139
NNW
1/2 - 1 Mile
Higher

IL WELLS IL10264581

Source:	IL Water Wells Records		
Objectid:	96013		
Api:	120972514100	Status:	WATER
Longitude:	-87.874738		
Latitude:	42.395715		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Lehman, R.
Farm num:	Not Reported	Company na:	Gross, Eugene
Elevation:	0		
Elevref:	Not Reported		
Total dept:	110		
Wformation:	sand		
Wfmfrom:	3		
Wfmto:	5		
Pumpgpm:	10		
Shapex:	-87.8748635		
Shapey:	42.39573954		
Site id:	IL10264581		

AH140
SE
1/2 - 1 Mile
Lower

IL WELLS IL10258975

Source:	IL Water Wells Records		
Objectid:	371		
Api:	120974643800	Status:	ENG
Longitude:	-87.853862		
Latitude:	42.373827		
Section :	17		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	STS job 17097
Farm num:	B-50	Company na:	Soil Testing Services
Elevation:	0		
Elevref:	GL		
Total dept:	45		
Wformation:	Not Reported		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	0		
Shapex:	-87.8539852		
Shapey:	42.37385183		
Site id:	IL10258975		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

AM141
West
1/2 - 1 Mile
Higher

IL WELLS IL10261201

Source:	IL Water Wells Records		
Objectid:	263243		
Api:	120972648000	Status:	WATER
Longitude:	-87.882975		
Latitude:	42.382041		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Busch & Larson
Farm num:	Not Reported	Company na:	Gaffke, George E.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	65		
Wformation:	Not Reported		
Wfmfrom:	62		
Wfmto:	65		
Pumpgpm:	8		
Shapex:	-87.88310059		
Shapey:	42.38206569		
Site id:	IL10261201		

AN142
WSW
1/2 - 1 Mile
Higher

IL WELLS IL10259888

Source:	IL Water Wells Records		
Objectid:	262041		
Api:	120974641800	Status:	ENG
Longitude:	-87.880879		
Latitude:	42.377578		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	STS job 17097
Farm num:	B-27	Company na:	Soil Testing Services
Elevation:	710		
Elevref:	GL		
Total dept:	42		
Wformation:	Not Reported		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	0		
Shapex:	-87.88100441		
Shapey:	42.37760274		
Site id:	IL10259888		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

AK143
NW
1/2 - 1 Mile
Higher

IL WELLS IL10263609

Source:	IL Water Wells Records		
Objectid:	16658		
Api:	120972647800	Status:	WATER
Longitude:	-87.879952		
Latitude:	42.392486		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Lampella, Rick Builders
Farm num:	Not Reported	Company na:	Gaffke, George E.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	96		
Wformation:	sand & gravel		
Wfmfrom:	92		
Wfmto:	96		
Pumpgpm:	10		
Shapex:	-87.88007766		
Shapey:	42.39251057		
Site id:	IL10263609		

AO144
WSW
1/2 - 1 Mile
Higher

IL WELLS IL10260431

Source:	IL Water Wells Records		
Objectid:	217868		
Api:	120970386100	Status:	WATER
Longitude:	-87.882435		
Latitude:	42.379472		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Hunt, Urban
Farm num:	Not Reported	Company na:	Gross, Emil E.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	94		
Wformation:	gravel		
Wfmfrom:	87		
Wfmto:	94		
Pumpgpm:	12		
Shapex:	-87.88256051		
Shapey:	42.37949672		
Site id:	IL10260431		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

AO145
WSW
1/2 - 1 Mile
Higher

IL WELLS IL10260640

Source:	IL Water Wells Records		
Objectid:	105430		
Api:	120972541900	Status:	WATER
Longitude:	-87.882894		
Latitude:	42.380302		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Busch & Larson
Farm num:	Not Reported	Company na:	Boysen, Henry Co.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	212		
Wformation:	limestone		
Wfmfrom:	204		
Wfmto:	212		
Pumpgpm:	20		
Shapex:	-87.88301955		
Shapey:	42.38032671		
Site id:	IL10260640		

146
West
1/2 - 1 Mile
Higher

IL WELLS IL10262183

Source:	IL Water Wells Records		
Objectid:	956		
Api:	120973438600	Status:	WATER
Longitude:	-87.88362		
Latitude:	42.385816		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Jonescue, John
Farm num:	Not Reported	Company na:	Gaffke, George E.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	99		
Wformation:	sand & gravel		
Wfmfrom:	95		
Wfmto:	99		
Pumpgpm:	0		
Shapex:	-87.88374668		
Shapey:	42.38583964		
Site id:	IL10262183		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

AO147
WSW
1/2 - 1 Mile
Higher

IL WELLS IL10260451

Source:	IL Water Wells Records		
Objectid:	240305		
Api:	120972564800	Status:	WATER
Longitude:	-87.882621		
Latitude:	42.379609		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Lampella, Rich Bldrs.
Farm num:	Not Reported	Company na:	Boysen, Henry Co.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	93		
Wformation:	gravel		
Wfmfrom:	87		
Wfmto:	93		
Pumpgpm:	10		
Shapex:	-87.88274652		
Shapey:	42.37963371		
Site id:	IL10260451		

148
SW
1/2 - 1 Mile
Higher

IL WELLS IL10259405

Source:	IL Water Wells Records		
Objectid:	577		
Api:	120972647900	Status:	WATER
Longitude:	-87.879733		
Latitude:	42.375623		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Busch & Larson
Farm num:	Not Reported	Company na:	Gaffke, George E.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	88		
Wformation:	sand & gravel		
Wfmfrom:	82		
Wfmto:	88		
Pumpgpm:	20		
Shapex:	-87.87985833		
Shapey:	42.37564877		
Site id:	IL10259405		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

149
SSW
1/2 - 1 Mile
Higher

IL WELLS IL10258282

Source:	IL Water Wells Records		
Objectid:	207487		
Api:	120970174200	Status:	WATER
Longitude:	-87.87152		
Latitude:	42.371236		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Hayman, Irving
Farm num:	Not Reported	Company na:	I. Ausherman
Elevation:	712		
Elevref:	Not Reported		
Total dept:	192		
Wformation:	Not Reported		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	0		
Shapex:	-87.8716449		
Shapey:	42.37126083		
Site id:	IL10258282		

AP150
WNW
1/2 - 1 Mile
Higher

IL WELLS IL10262988

Source:	IL Water Wells Records		
Objectid:	133399		
Api:	120974906200	Status:	WATER
Longitude:	-87.882592		
Latitude:	42.389642		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Willms, Kevin
Farm num:	Not Reported	Company na:	Boyce, Kenneth D.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	254		
Wformation:	limestone		
Wfmfrom:	253		
Wfmto:	254		
Pumpgpm:	12		
Shapex:	-87.88271772		
Shapey:	42.3896666		
Site id:	IL10262988		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

AQ151
SW
1/2 - 1 Mile
Higher

IL WELLS IL10259157

Source:	IL Water Wells Records		
Objectid:	35151		
Api:	120972564600	Status:	WATER
Longitude:	-87.878908		
Latitude:	42.374703		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Grana Const. Co.
Farm num:	Not Reported	Company na:	Boysen, Henry Co.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	90		
Wformation:	gravel		
Wfmfrom:	85		
Wfmto:	90		
Pumpgpm:	10		
Shapex:	-87.87903327		
Shapey:	42.37472878		
Site id:	IL10259157		

AM152
West
1/2 - 1 Mile
Higher

IL WELLS IL10261218

Source:	IL Water Wells Records		
Objectid:	59376		
Api:	120972648600	Status:	WATER
Longitude:	-87.883965		
Latitude:	42.382120		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Progressive Builders
Farm num:	Not Reported	Company na:	Gaffke, George E.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	88		
Wformation:	sand-gravel		
Wfmfrom:	85		
Wfmto:	88		
Pumpgpm:	7		
Shapex:	-87.88409163		
Shapey:	42.38214468		
Site id:	IL10261218		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

AR153
WNW
1/2 - 1 Mile
Higher

IL WELLS IL10262514

Source:	IL Water Wells Records		
Objectid:	11784		
Api:	120972447000	Status:	WATER
Longitude:	-87.883902		
Latitude:	42.387387		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Corder Realty
Farm num:	Not Reported	Company na:	Hoover, L. R.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	232		
Wformation:	gravel		
Wfmfrom:	230		
Wfmto:	232		
Pumpgpm:	12		
Shapex:	-87.88402873		
Shapey:	42.38741162		
Site id:	IL10262514		

AQ154
SW
1/2 - 1 Mile
Higher

IL WELLS IL10259097

Source:	IL Water Wells Records		
Objectid:	128902		
Api:	120972587500	Status:	WATER
Longitude:	-87.878911		
Latitude:	42.374428		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Grana Const. Co.
Farm num:	Not Reported	Company na:	Boysen, Henry Co.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	78		
Wformation:	gravel		
Wfmfrom:	75		
Wfmto:	78		
Pumpgpm:	10		
Shapex:	-87.87903627		
Shapey:	42.37445278		
Site id:	IL10259097		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

AP155
WNW
1/2 - 1 Mile
Higher

IL WELLS IL10263021

Source:	IL Water Wells Records		
Objectid:	182394		
Api:	120973582900	Status:	WATER
Longitude:	-87.882913		
Latitude:	42.389878		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Bromkamp, John
Farm num:	Not Reported	Company na:	Gross, Eugene J.
Elevation:	730		
Elevref:	Not Reported		
Total dept:	115		
Wformation:	gravel		
Wfmfrom:	90		
Wfmto:	115		
Pumpgpm:	10		
Shapex:	-87.88303973		
Shapey:	42.38990259		
Site id:	IL10263021		

156
WSW
1/2 - 1 Mile
Higher

IL WELLS IL10260690

Source:	IL Water Wells Records		
Objectid:	166578		
Api:	120973806400	Status:	WATER
Longitude:	-87.883665		
Latitude:	42.380386		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Leiuick, John A. Jr.
Farm num:	Not Reported	Company na:	Gross, Eugene J.
Elevation:	718		
Elevref:	Not Reported		
Total dept:	68		
Wformation:	Not Reported		
Wfmfrom:	60		
Wfmto:	68		
Pumpgpm:	0		
Shapex:	-87.88379058		
Shapey:	42.3804107		
Site id:	IL10260690		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

157
SE
1/2 - 1 Mile
Lower

IL WELLS IL10258976

Source:	IL Water Wells Records		
Objectid:	127289		
Api:	120974643900	Status:	ENG
Longitude:	-87.851893		
Latitude:	42.373833		
Section :	17		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	STS job 17097
Farm num:	B-51	Company na:	Soil Testing Services
Elevation:	0		
Elevref:	GL		
Total dept:	40		
Wformation:	Not Reported		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	0		
Shapex:	-87.85201612		
Shapey:	42.37385883		
Site id:	IL10258976		

AN158
WSW
1/2 - 1 Mile
Higher

IL WELLS IL10259897

Source:	IL Water Wells Records		
Objectid:	54885		
Api:	120974641700	Status:	ENG
Longitude:	-87.882208		
Latitude:	42.377629		
Section :	18		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	STS job 17097
Farm num:	B-26	Company na:	Soil Testing Services
Elevation:	710		
Elevref:	GL		
Total dept:	40		
Wformation:	Not Reported		
Wfmfrom:	0		
Wfmto:	0		
Pumpgpm:	0		
Shapex:	-87.88233347		
Shapey:	42.37765374		
Site id:	IL10259897		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

AR159
WNW
1/2 - 1 Mile
Higher

IL WELLS IL10262745

Source:	IL Water Wells Records		
Objectid:	147820		
Api:	120972647600	Status:	WATER
Longitude:	-87.883794		
Latitude:	42.388341		
Section :	7		
Twp:	45		
Tdir:	N		
Rng:	12		
Rdir:	E	Farm name:	Corder Realty & Assoc.
Farm num:	Not Reported	Company na:	Gaffke, George E.
Elevation:	0		
Elevref:	Not Reported		
Total dept:	241		
Wformation:	limestone		
Wfmfrom:	238		
Wfmto:	241		
Pumpgpm:	15		
Shapex:	-87.88391974		
Shapey:	42.38836561		
Site id:	IL10262745		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: IL Radon

Radon Test Results

Floor	# Sites	Min pCi/L	Avg pCi/L	Max pCi/L	# Sites>4pCi/L	# Sites>20	County
Basement	79	0.4	2.3	9.6	11	0	LAKE
Basement	276	0.3	4	2 32.9	104	18	LAKE
1st Floor living area	1	0.5	0.5	0.5	0	0	LAKE
1st Floor living area	0						LAKE
1st Floor bedroom	10	0.5	1.9	8.9	1	0	LAKE
Total	90	0.4	2.3	9.6	12	0	LAKE

Federal EPA Radon Zone for LAKE County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for LAKE COUNTY, IL

Number of sites tested: 23

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.014 pCi/L	86%	14%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	1.813 pCi/L	96%	4%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Records

Source: Illinois Geological Survey

Telephone: 217-333-4747

Illinois Private Well Database and PICS (Public, Industrial, Commercial Survey)

Source: Illinois State Water Survey

Telephone: 217-333-9043

Water Well Location Information

Source: Illinois Environmental Protection Agency

Telephone: 217-782-0810

OTHER STATE DATABASE INFORMATION

RADON

State Database: IL Radon

Source: Department of Nuclear Safety

Telephone: 217-785-9958

County Radon 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: CH2M Hill
Contact: Mary Beth Jacques
Fax : 404-229-9152
Date: 07/12/2006

Fax From: Bart Sobieralski
EDR
Phone: 1-800-352-0050

EDR PUR-IQ[®] Report

"the intelligent way to conduct historical research"

for
Waukegan AFRC, IL
1721 NORTH MCAREE ROAD
WAUKEGAN, IL 60085
Lat./Long. 42.38440 / 87.86520
EDR Inquiry # 01714247.116r

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 Lake County, IL.
- 2. Fire Insurance Map:** When you order online any EDR Package or the EDR Radius Map with EDR Sanborn Map Search/Print, you receive site specific Sanborn Map coverage information at no charge.
- 3. Aerial Photograph:** Coverage exists for portions of Lake County for 1952, 1953, 1961, 1962, 1972, 1973, 1988, 1993, 1994 Shipping time 3-5 business days.
- 4. Topographic Map:** The USGS 7.5 min. quad topo sheet(s) associated with this site:

Historical: Coverage exists for Lake County

Current: Target Property: TP | 1993 | 42087-D7 Zion, IL

Additional required for 1 Mile radius: S | 1993 | 42087-C7 Waukegan, IL
W | 1993 | 42087-D8 Wadsworth, IL

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 WAUKEGAN, IL. 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™ Environmental
Data Resources Inc

EDR - HISTORICAL SOURCE(S) ORDER FORM

**CH2M Hill
Mary Beth Jacques
Account # 1592163**

**Waukegan AFRC, IL
1721 NORTH MCAREE ROAD
WAUKEGAN, IL 60085
Lake County
Lat./Long. 42.38440 / 87.86520
EDR Inquiry # 01714247.116r**

Should you wish to change or add to your order, fax this form to your EDR account executive:

**Bart Sobieralski
Ph: 1-800-352-0050 Fax: 1-800-231-6802**

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- EDR Multi-Tenant Retail Facility® Report
- EDR City Directory Abstract
- EDR Aerial Photo Decade Package
- USGS Aerial 5 Package
- USGS Aerial 3 Package
- EDR Historical Topographic Maps
- Paper Current USGS Topo (7.5 min.)
- Environmental Lien Search
- Chain of Title Search
- NJ MacRaes Industrial Directory Report
- EDR Telephone Interview

Shipping:

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- Express, Next Day Delivery
- Express, Second Day Delivery
- Express, Next day Delivery
- Express, Second Day Delivery
- U.S. Mail

Customer Account
Customer Account

RUSH SERVICE IS AVAILABLE

Acct # _____
Acct # _____

Thank you