### FINAL

# ENVIRONMENTAL CONDITION OF PROPERTY REPORT

### NIAGARA FALLS U.S. ARMY RESERVE CENTER (NY046) NIAGARA FALLS, NY 14304

**Prepared For:** 

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

### **JULY 2007**

# Certification

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

JOHN WOHRLE DATE Acting Facility Management Officer 77th Regional Readiness Command, ARIM

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

CH2M HILL, under contract to the U.S. Army Corps of Engineers, Louisville District, has prepared this Environmental Condition of Property (ECP) report for the Niagara Falls U.S. Army Reserve (USAR) Center (Facility ID NY046), hereafter referred to as the "Property" or "USAR Center."

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

This ECP report details the history of the Property including prior tenant use; however, the focus of this document is on USAR's use of the Property and the resulting environmental condition.

The USAR Center is on 19.5 acres of land in Niagara Falls, New York, and has 11 permanent structures and three parking/equipment storage areas. The Property is occupied mainly by the 277th Quartermaster Company (a refueling company), the 865th Combat Support Hospital (a medical group), a small presence of the 1982nd Forward Surgical Unit, and Area Maintenance Support Activity (AMSA) 76. A small presence is maintained by personnel of the Department of Public Works, Fort Drum, New York.

Based on a review of aerial photographs and U.S. Geological Survey (USGS) topographic maps dating back to 1899, development similar to the present appeared at least by 1948. Some of the buildings on the Property are depicted on the USGS topographic map of 1965.

Areas of potential environmental concern were reviewed, and CH2M HILL found the following relating to the environmental condition of the Property:

- Reports of a former landfill on the Property. A preliminary assessment (PA) report quoting previous studies at the Property states that the Property is known to have been a landfill. The PA cites other intrusive investigations on the Property, which did not conclude that a landfill existed at the location. The PA, however, states that "no additional documents could be located to confirm or deny the potential presence of a landfill" and recommended additional records reviews and subsurface sampling on the Property with the objective of determining whether a landfill was previously located at the Property.
- According to Property personnel, the hangar in Building 4 was formerly used to service Nike missiles having conventional warheads in support of other Nike missile batteries in New York. Several published reports on the Nike missile program indicate there is the potential for environmental effects related to Nike missile operations and maintenance.
- Three aircraft maintenance hangars: two former wooden hangars located on the east side of the Property, and one hangar within Building 4. According to the PA report, operations at the Building 4 hangar included daily inspections, engine repair, and

aircraft modifications. Building 4 also was used to service Nike missiles from batteries in the New York area. The hangars were in use as early as the 1930s, and no detailed information is available on storage and disposal of hazardous substances that were likely used. Drainage from the hangar reportedly flowed into storm drains for several decades before installation of the OWS near Building 4 in 1994. A PA performed in 1994 recommended sediment sampling in Cayuga Creek to evaluate discharges from building floor drains into the storm sewer. No information was available to indicate that such sampling had been performed.

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

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# **Abbreviations and Acronyms**

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

ACM	asbestos-containing material
AGV	alternative guidance value
AMSA	Area Maintenance Support Activity
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
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Act Information System
CFR	Code of Federal Regulations
CONEX	Container Express
CORRACTS	Resource Conservation and Recovery Act corrective action site
CSH	Combat Support Hospital
DoD	Department of Defense
DPW	Department of Public Works
ECP	Environmental Condition of Property
EDR	Environmental Data Resources, Inc.
ERNS	Emergency Response Notification System
FEMA	Federal Emergency Management Agency
kg	kilogram
LBP	lead-based paint
LUST	leaking underground storage tank

MEC	munitions and explosives of concern
MEK	methyl ethyl ketone
MEP	military equipment parking
msl	mean sea level
MVPA	military vehicle parking area
NETR	NETR Real Estate Research and Information
NFA	no further action
NFTA	Niagara Frontier Transportation Authority
NPL	National Priorities List
NRHP	National Register of Historic Places
NYARNG	New York Army National Guard
NYSDEC	New York State Department of Environmental Conservation
OMS	organizational maintenance shop
OWS	oil/water separator
РА	preliminary assessment
РАН	polycyclic aromatic hydrocarbon
РСВ	polychlorinated biphenyl
PCE	tetrachloroethylene
pCi/L	picoCuries per liter
POL	petroleum, oil, and lubricant
POV	privately owned vehicle
ppb	parts per billion
ppm	parts per million
PSG	Professional Services Group
QmC	Quartermaster Company
RCRA	Resource Conservation and Recovery Act
RCRIS	Resource Conservation and Recovery Act Information System
RQ	reportable quantity
STARS	Spill Technology and Remediation Series
TAGM	Technical and Administrative Guidance Memorandum

TCA	trichloroethane		
TCE	trichloroethylene		
TCLP Toxicity Characteristic Leaching Procedure			
TSD	treatment, storage, or disposal		
TSI	thermal system insulation		
USACE	United States Army Corps of Engineers		
USAR	United States Army Reserve		
USDA	United States Department of Agriculture		
USEPA	United States Environmental Protection Agency		
USFWS	United States Fish and Wildlife Service		
USGS	United States Geological Survey		
UST	underground storage tank		

# 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 Niagara Falls U.S. Army Reserve (USAR) Center (NY046). The facility is located at 9400 Porter Road, Niagara Falls, Niagara County, New York 14304 (Figure 1, Appendix A) and is hereafter referred to as the "Property" or "USAR Center." CH2M HILL prepared this ECP report under Contract Number W912QR-04-D-0020, Task Order No. 0018, with the Louisville District USACE.

A visual non-intrusive reconnaissance of the Property was conducted on August 16 and 17, 2006, in support of the ECP. On April 12, 2007, Property personnel conducted a visual non-intrusive reconnaissance of some of the areas that were not accessible to CH2M HILL. The site 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 and previous work by others, interviews with individuals purporting to be familiar with the Property, and observations from the 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

This report meets the Department of Defense's (DoD's) requirement to prepare an ECP report under the provisions of the Base Redevelopment and Realignment Manual (BRRM) (DoD 4165.66-M, March 1, 2006) Section C8.3. The ECP was prepared for the following purposes:

- 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 the U.S. Environmental Protection Agency (USEPA) "All Appropriate Inquiry" regulations when they become final
- 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

This ECP report contains the information required to comply with the provisions of 40 Code of Federal Regulations (CFR) Part 373 that require a notice accompany contracts for the sale of, and deeds entered into for the transfer of federal property on which hazardous substances may have been stored, released, or disposed of. Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) §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) 1,000 kilograms (kg) or the reportable quantity (RQ), whichever is greater, of the substances specified in 40 CFR 302.4, or (2) 1 kg of acutely hazardous waste as defined in 40 CFR 261.30. A notice also is required if hazardous substances have been disposed of or released on the property in an amount greater than or equal to the RQ. Army Regulation (AR) 200-1 requires that the ECP report address asbestos, lead-based paint (LBP), radon, and other substances potentially hazardous to health.

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

### 1.2 Scope of Services

This ECP report covers the USAR Center located at 9400 Porter Road, Niagara Falls, New York (Figure 2, Appendix A). All site maps, figures, and aerial photographs referenced herein are provided in Appendix A, and Appendix B contains the photographs taken during the August 16 and 17, 2006, site reconnaissance. Appendix C contains the property warranty deeds and chain of title information. Relevant historical environmental documents and reports are provided in Appendix D, and Appendix E contains the Environmental Data Resources, Inc. (EDR) radius search reports commissioned for this effort.

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

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

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

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

# 2 Site Location and Physical Description

### 2.1 Site Location

The USAR Center is located in Niagara County, on the south side of Niagara Township, in Niagara Falls, New York, at 9400 Porter Road (Figure 1, Appendix A). The 19.5-acre parcel is located north of a main thoroughfare (Porter Road, also known as Route 182). Undeveloped, forested land is located south of Porter Road. The Property is bordered on the east, west, and north sides by wooded land and commercial development (Photographs 1 through 7, Appendix B).

### 2.2 Asset Information

Facility Name and Address:	Niagara Falls USAR Center 9400 Porter Road Niagara Falls, New York 14304
Property Owner:	U.S. Government
Date of Ownership:	The Army acquired the property in 1962 from the U.S. Navy. The U.S. Government acquired the Property in 1955.
Current Occupant:	U.S. Army Reserve: 277th Quartermaster Company (QmC), 865th Combat Support Hospital (CSH), 1982nd Surgical Unit, Area Maintenance Support Activity (AMSA) No. 76, Fort Drum Department of Public Works (DPW)
Zoning:	The Town of Niagara does not have jurisdiction here; surrounding properties are zoned LI—Light Industrial.
County, State:	Niagara, New York
USGS Quadrangle:	Tonawanda West, New York
Section/Township/Range:	This information was not available at the time of this ECP report preparation.
Latitude/longitude:	43°06′0.7″N; 78°57′17.6″W
Legal Description:	See below

ALL THAT TRACT OR PARCEL OF LAND, situate in the Town of Niagara, County of Niagara and State of New York, being part of Lots 2 and 6, Township 13, Range 9 of the Holland Land Company's Survey, being more particularly bounded and described as follows:

BEGINNING AT A POINT in the northerly line of Parter Road, New York State Route 182 (being 100 feet wide), at the southwesterly corner of a parcel of land conveyed to The United States of America by a deed filed in the Niagara County Clerk's Office in Liber 1198 of Deeds at page 340, said point also being a distance of 176.25 feet northwesterly of the intersection of the west line of lot 2 and said northerly line of Porter Road, New York State Route 182;

Thence North 05'04'44" East along said lands conveyed to The United States of America, a distance of 155.91 feet to an angle point in the southerly line of lands conveyed to the Niagara Frontier Transportation Authority by a deed filed in the Niagara County Clerk's Office in Liber 1566 of Deeds at page 795;

Thence South 87'03'30" East along the southerly line of said lands conveyed to the Niagara Frontier Transportation Authority by Liber 1566 of Deeds at page 795, a distance of 149.79 feet to a point in the west line of lot 2 and the southeasterly corner of said parcel conveyed to the Niagara Frontier Transportation Authority;

Thence North 00°23'47" West along the west line of lot 2 and the easterly line of said lands conveyed to the Niagara Frontier Transportation Authority, a distance of 316.83 feet to the northwesterly corner of lands conveyed to The United States of America by a deed filed in the Niagara County Clerk's Office in Liber 674 of Deeds at page 492;

Thence North 89°36'10" East along a line parallel with the north line of lot 2 and along the northerly line of said lands conveyed to The United States of America by Liber 674 of Deeds at page 492, a distance of 1110.00 feet to the northeasterly corner of said lands conveyed to The United States of America by Liber 674 of Deeds at page 492;

Thence South 00'23'47" East along a line parallel with the west line of lot 2 and along the easterly line of said lands conveyed to The United States of America by Liber 574 of Deeds at page 492, a distance of 940.00 feet to a point in the northerly line of Parter Road, New York State Route 182 and the southeasterly corner of said lands conveyed to The United States of America by Liber 674 of Deeds at page 492;

Thence northwesterly along the northerly line of Parter Road, New York State Route 182, being a non-tangent curve, concave to the north, having a radius of 2815.00 feet, a central angle of 05°44'32" and a chord of 282.00 feet bearing North 72'15'01" West, a distance of 282.12 feet to the point of tangency;

Thence North 69'16'17" West continuing along the northerly line of Parter Road, New York State Route 182, a distance of 1078.94 feet to the POINT OF BEGINNING, containing 19.52 Acres of land, more or less.

Together with all the rights, title and interest in a 20 foot wide easement for purposes of ingress and egress as described in a deed filed in the Niagara County Clerk's Office in Liber 1566 of Deeds at page 755

### 2.3 Physical Description

The USAR Center has 11 permanent structures and three parking/equipment storage areas (Figure 2, Appendix A). In addition, a concrete guardhouse is located north of the entrance to the Property from Porter Road. A military equipment parking (MEP) area is located on the eastern side of the Property, and a military vehicle parking area (MVPA) is located west of the MEP. A privately owned vehicle (POV) parking area is located west of Building 4. Chain-link security fencing encloses the MEP area. Personnel indicated that the Property is used for vehicle maintenance; storage of equipment such as tents, clothing, boots, vests, and

other similar materials; minor medical supplies such as bactericide, sporicide, and fungicide; vehicle maintenance tools; petroleum, oil, and lubricant (POL) materials; paints; batteries; tires; and miscellaneous equipment such as heaters, compressors, furniture, hoses, and load testers, for the 865th CSH and the 277th QmC. The 865th CSH uses the Property one weekend each month for drill (classroom) training.

The Property is almost entirely covered by impervious surfaces, such as asphalt parking areas, driveways, and buildings. Small areas are grass covered (south-central area) or have a mix of grass and gravel, such as in the southwestern corner of the Property. Permanent structures on the Property are described below.

#### **Building 4**

Building 4 is an 85,500-square-foot building constructed in 1956 (Photograph 8, Appendix B). It is a large, metal-framed hangar having two-story brick buildings attached to the north (Building 4N) and south (Building 4S) sides. All roofs are rubber-coated.

The 865th CSH and the 277th QmC use the hangar and Buildings 4S and 4N to store equipment, such as tents, clothing, boots, vests, and other similar materials; and minor medical supplies such as bactericide, sporicide, fungicide, and tools; and for classroom training, readiness, and administrative purposes. The eastern part of Building 4S contains a battery room, reportedly empty and not in use (Fort Drum DPW, April 2007). A boiler room, having two natural gas-powered boilers is located in the southeastern part of the building. An electrical room in the northeastern corner of the first floor of Building 4S contains dry transformers and associated equipment. Other items stored in several rooms and metal cages in Building 4S on the first floor include kitchen and medical supplies, tools, clothing, and personal equipment, such as boots, vests, and other similar materials. Medical items included fungicide, bactericide, sporicide, activated dialdehyde solution, and acetone, all in quantities commensurate with training use at the facility.

The building also has administrative offices, a mailroom, bathrooms, a garage, and an air compressor room (operable but not in use). Oil stains were visible in the compressor room on the concrete pad on which the compressor was located (Photograph 11, Appendix B). The oil stains did not run off the edge of the pad, so there is no indication of a release to the environment. The second floor of Building 4S also has offices, classrooms, a conference room, a chapel/prayer room, a family support room, a computer server room, bathrooms, and a mechanical room having a natural gas-fired boiler.

According to personnel, part of the first floor of Building 4N is used by the 1982nd Forward Surgical Unit for supply/tool storage. The first floor of Building 4N has a functioning kitchen, a boiler/mechanical room, offices, an empty flight locker room, and equipment storage areas. Oil stains and corroding equipment were visible in the boiler room during the site reconnaissance. The oil stains did not run off the edge of the pad on which the boiler was located, so there is no indication of a release to the environment. The second floor of Building 4N consists mainly of classrooms, and some office rooms, a mechanical room, a janitorial room, and bathrooms. No access was available to CH2M HILL in most classrooms on the days of the site reconnaissance; however, as reported by Property personnel, these classrooms had only furniture associated with their use.

### Building 17

Building 17 consists of a POL shed and an aboveground storage tank (AST). The POL shed is a concrete block building, having a metal roof, constructed in 1993. Supplies of POL and antifreeze are properly stored in this shed. Attached to the east side of the POL shed is an 18-inch-high concrete containment wall, having a metal roof. A 528-gallon steel waste oil AST is located inside this containment. The EDR report states this tank was installed in September 1999.

### Building 18

Building 18 is an L-shaped, single-story, 9,720-square-foot structure, constructed in 1956 and expanded in the 1990s. It is a metal-framed and concrete block structure having metal and brick exterior. The southern part of the building, constructed in 1956, houses the 277th QmC Organizational Maintenance Shop (OMS). The shop is used for vehicle maintenance and for the storage of related equipment, tools, POL, and hazardous waste prior to offsite disposal by a licensed contractor. A trench drain, connected to the oil/water separator (OWS) located near the north end of Building 18, is located in the midsection of the shop floor. The OWS connects to the sanitary sewer. At the time of the site reconnaissance, the OMS building contained three storage cabinets for flammable materials. CH2M HILL did not have access to the interior of the cabinets during the site reconnaissance; however, the area around the cabinets did not show signs of any staining or corrosion.

Property personnel conducted a visual reconnaissance of the interior of these cabinets on April 12, 2007, and based on their visual inspection, the storage cabinets contain POL and spray paint (Fort Drum DPW, April 2007). Numerous other tools were visible inside a locked metal room near the compressor/boiler room. Property personnel indicate that this locked room contains only spray paint (Fort Drum DPW, April 2007). Another tool room on the north side of Building 18, not accessible to CH2M HILL during the site reconnaissance, was reported by Property personnel as containing tools for vehicle repair and vehicle parts (Fort Drum DPW, April 2007). No POL or hazardous substances are stored in this tool room. Photographs of the storage cabinets in Building 18 and the tool room on the west side of Building 18 are included in Appendix B.

The remainder of the building, added in the 1990s, is of metal frame construction and houses AMSA 76. That part of Building 18 is used for vehicle maintenance, storage of related equipment, tools, used POL, other chemicals, and vehicle battery recharging (Photograph 12, Appendix B). The northwestern part of the AMSA contains a parts washer, a wash water recycling system (reportedly not functioning), and an oil filter crusher. Seven maintenance bays are used to service military vehicles. Trench drains connected to the OWS are located outside each of the seven maintenance bays. The OWS is connected to the sanitary sewer. During the site reconnaissance, two military vehicles were in the maintenance bays in the AMSA. Oil stains were visible on the concrete floor beneath one of the vehicles, and absorbent was spread over the oil stains. The concrete floor is, however, continuous to the building walls, so there is no suspected release to the environment.

A storage room inside the AMSA building contained a vehicle battery recharging station. The wooden bench on which batteries are placed was blackened and burnt on the surface, presumably because of acid burns, whereas the concrete floor of the room was observed to be corroded around the wooden bench, having white deposits on the floor (Photograph 12, Appendix B). Because the corrosion did not appear to penetrate the full depth of the floor, there is no suspected release to the environment.

### **Building 19**

Building 19 is a single-story, 1,600-square-foot storage structure built in 1956 of a concrete foundation and metal frame and roof. It is used to store equipment belonging to the 277th QmC. Equipment observed inside this building included a heater, tires, wires, a hydraulic press (reportedly not in use), an electric load tester, hoses, and a gas-fired furnace. Peeling paint, likely LBP, and roof water damage were observed in the southeastern part of the interior of the building.

#### Building 20

Building 20 is a single-story 2,133-square-foot structure constructed in 1956 of concrete and brick veneer and an asphalt-coated metal roof. It is used for storage of equipment for the 277th QmC, and has an electronics service room in the northern part of the building and an unused vehicle battery storage room at the south end of the building. More than 20 vehicle tires were observed inside the battery room. Items observed inside the central part of the building included a steam cleaner, a refrigerator, desktop computers, an oil drain tank (not used), and office supplies. A natural gas-fired boiler room is also located in this part of the building.

### Building 21

Building 21 is a single-story 13,055-square-foot structure built in 1956 of concrete block and brick exterior and a shingled roof. The 277th QmC uses it to maintain vehicles, to store equipment, and for classroom training and administration. The vehicle maintenance areas, located in the eastern part of the building, have trench drains leading to an OWS located east of the building, which is connected to the sanitary sewer system. Building 21 also has a boiler room, classrooms, offices, bathrooms, and storage areas.

Two maintenance bays are located on the east side of the building, where equipment is stored and light vehicle maintenance is performed. During the site reconnaissance, two flammable materials cabinets were observed in the north maintenance area. A lawn mower and "bobcat" were stored along the north wall of this area. An overhead air compressor was located in the southwest corner of this area; workbenches and pipes were located along the west wall. The southeast corner of this area contained insulated water pipes and backflow prevention valves; this is the main point of entry for water supply to the Property. The pipes appeared to be insulated with foam. Damage to the insulation was apparent in small parts of the pipes. Other items observed in Building 21 during the site reconnaissance included a dry transformer in Room 104 and a paint storage cabinet in Room 123.

#### **Building 22**

Building 22 is a two-story, 20,703-square-foot structure constructed in 1956 of concrete block and brick veneer and a shingled, rubber-coated roof. The building is used for equipment storage of the 277th QmC, classroom training, and administrative tasks. The building also has a kitchen and dining hall for use during drill weekends (once a month). The second story consists of classrooms and office space, a room for storage of flight gear, and bathrooms. An attic space is located along the southern edge of the building because of the pitch of the roofline.

### Building 23

Building 23 is a single-story, 2,058-square-foot structure constructed in 1956 of metal frame and metal roof and siding. It is used for storage of equipment belonging to the 277th QmC. Equipment observed in the building on the first day of the site reconnaissance (August 16, 2006) included hoses, wooden boxes, floodlights, fuel pump and filters, accessories, tents, sandbags, and fire extinguishers.

### Building 24

Building 24 is a single-story, 2,400-square-foot structure constructed in 1993 of metal frame and metal roof and siding. The 865th CSH uses it to store equipment and material. The building is supplied with electricity and heat but no plumbing. Equipment observed in the building on the first day of the site reconnaissance (August 16, 2006) included a modular field kitchen, a steel refrigerator, and food containers. Nine fluorescent overhead lamps, possibly containing mercury, were observed on the ceiling of the building.

### Building 25

Building 25 is a single-story, 1,504–square-foot structure constructed in 1956 of concrete block and brick exterior and an asphalt-coated roof. It was formerly used as the heating plant for the Property and contained fuel oil USTs. Natural gas became the fuel source in the mid-1980s. Telephone and fiber optic cables are routed to the building from the supplier before branching out to the other buildings on the Property. Building 25 is now used to store equipment belonging mainly to the Fort Drum DPW. Equipment observed in the building on the day of the site reconnaissance included spill containment kits, convection ovens, a small container of an herbicide, and acrylic and enamel paints.

#### **Building 26**

Building 26 is a single-story, 2,150-square-foot structure constructed in 1960 of metal frame and metal siding and roof. It is primarily used to store equipment belonging to the 277th QmC. Equipment observed in the building on the day of the site reconnaissance included paints (some oil-based, containing xylenes), vinyl jackets for duct work, ceiling and floor tile, a 50-gallon water heater, parts of old boilers, and adhesives.

#### Wash Rack Outside Building 18

A concrete wash rack is located near the northwestern corner of the AMSA, adjacent to an OWS. The wash rack drains into the OWS, located south of the wash rack. The OWS is connected to the sanitary sewer. Rinse water generated by vehicle washing is recycled through a water recycling system inside the AMSA shop. AMSA personnel indicated that vehicle washing is now rarely performed at the facility, in part because of the malfunction of the water recycling system.

#### **Oil/Water Separators**

Three OWSs are located on the Property. One OWS, reportedly installed in 1994, is located near the southwestern corner of Building 4S (Photograph 9, Appendix B). A 1,000-gallon

underground storage tank (UST) associated with the OWS was removed in September 1999. Another OWS is located south of the vehicle wash rack near the northwest corner of Building 18 (Photograph 10, Appendix B). Property personnel indicated the wash rack and the OWS were installed between 1986 and 1988. A 550-gallon UST associated with the OWS was removed in September 1999. A third OWS, reportedly installed at the time of original building construction, is located adjacent to the east wall of Building 21. Personnel stated that a small (55-gallon) UST is associated with the OWS.

The OWS near Building 4S receives water from the hangar floor, where helicopter/airplane cleaning and washing historically occurred and where Nike missiles were serviced. The OWS near Building 18 receives water from vehicle maintenance activities in the AMSA shop and OMS. The OWS adjacent to Building 21 receives water from occasional vehicle washing and maintenance activities inside Building 21. According to personnel, and a Storm Water Pollution Prevention Plan Update (Bowne AE&T Group, 2006) all OWSs are connected to the sanitary sewer.

#### Storage Sheds

Two metal storage sheds (6 feet by 8 feet by 8 feet tall) are located in the MEP northeast of Building 21. CH2M HILL did not have access to the interior of the two storage sheds in the MEP area. The outsides of the sheds indicated they contained flammable material; personnel confirmed they contained POL. Property personnel conducted a visual inspection of these sheds and observed four partially full 55-gallon drums, containing used motor oil and antifreeze. All drums were on secondary containment structures, and there was no indication of a spill or a release from these drums (Fort Drum DPW, April 2007). A photograph of the interior of one of these storage sheds is contained n Appendix B. Two similar storage sheds are located in the MVPA east of Building 18. In the MVPA, one shed contained oxygen gas cylinders; the other, acetylene gas cylinders. A third, larger shed (6 feet by 10 feet by 15 feet) contained POL (including waste oil, antifreeze, diesel, diesel waste, and parts cleaners). The large shed reportedly has been in use for about 2 years. The age of the other sheds could not be ascertained. The appearance of the ground around each shed was normal and did not indicate releases to the environment.

A wooden shed (6 feet by 10 feet by 15 feet) having glass windows is located north of Building 18. Property personnel performed a visual inspection and indicated the shed was empty (Fort Drum DPW, April 2007).

Two Container Express (CONEX)-type containers were observed between Buildings 4 and 18, on the north side of a fence. According to Property personnel, the containers store equipment for the 865th CSH. During a visual inspection by Property personnel, the CONEX containers were observed to hold items such as tents, shelving, and other mobile hospital supplies. No POL or hazardous substances were stored in these containers at the time of the inspection

#### Switchyard

An electric switchyard is located in the south-central part of the Property. Personnel indicated there no transformers inside this structure at the time of the site reconnaissance. The switchgear and circuit breakers inside the structure are dry and do not contain polychlorinated biphenyls (PCBs), according to USAR Center personnel. Wet lead/calcium-

acid batteries were observed inside an enclosure in the area. The batteries are used as backup for the circuit breakers and switchgear.

### 2.4 Site Hydrology and Geology

Geologic and hydrogeologic information was obtained mainly from the final preliminary assessment (PA; Engineering Technologies Associates, 1994), which obtained related information from previously published U.S. Geological Survey (USGS) reports and from the United States Department of Agriculture (USDA) and Cornell University, New York. The Property is located in the Erie-Ontario Lowlands Physiographic Province. The region is characterized by relatively flat topography and is dissected by east-west trending escarpments. The Property is located about 5 miles south of the Niagara Escarpment.

The Niagara Falls area is underlain by glacial sediments consisting mainly of till and lacustrine silt and clay, 5 to 80 feet thick. The glacial deposits are underlain by weathered dolomite and limestone of the Lockport Group of the Niagaran Series of Middle Silurian age. The Lockport Group is underlain by about 100 feet of shale and limestone (Clinton Group), which is underlain by 110 feet of sandstone and shale (Medina Group).

### 2.4.1 Surface Water Characteristics

The USAR Center is on the USGS 7.5-minute Tonawanda West topographic map. As shown on this map (Figure 3, Appendix A), ground surface elevations at the USAR Center average 575 feet above mean sea level (msl). Topography at the site is nearly level; surface and stormwater drainage is to Cayuga Creek, located between 100 to 200 feet from the western boundary of the Property. Cayuga Creek is an intermittent tributary of the Niagara River. The drainage area of the Property is less than 50 acres.

Figure 4 in Appendix A depicts surface water, stormwater, and sanitary sewer lines on the Property. Several interior building areas drain directly or indirectly into the stormwater sewer system. Drainage from the Building 4 hangar reportedly flowed into storm drains for several decades before installation of the OWS (1994) near Building 4. A drainage ditch located along the eastern boundary of the Property flows south into a ditch along the north side of Porter Road, outside the Property. Four stormwater outfalls were identified during a stormwater pollution prevention survey (Bowne AE&T Group, 2006). Each outfall is associated with a local stormwater sewer line and a network of drain inlets. Property grading and the location of some of the inlets causes stormwater flow to bypass the inlets and flow directly into the drainage ditches (Bowne AE&T Group, 2006).

### 2.4.2 Hydrogeological Characteristics

The Property is underlain by two types of soil: the Lakemont silty clay loam and the Fonda mucky silt loam. Both soil types are described as fine- to moderately fine-textured, of low permeability, and a prolonged high water table at 0 to 0.5 foot below ground surface (bgs). These soils have high clay content and are subject to ponding. Permeability rates range from 0.2 to 0.6 inch per hour. According to personnel at the Property, the subsurface is underlain by clay of variable moisture. The material is locally known as "Gumbo clay." The water table is at a depth of less than 4 feet bgs.

The glacial deposits are underlain by weathered dolomite and limestone of Middle Silurian age in the Lockport Group of the Niagaran Series. The Lockport Group is underlain by about 100 feet of shale and limestone (Clinton Group), which is underlain by 110 feet of sandstone and shale (Medina Group).

The glacial deposits act as a confining unit for the weathered bedrock aquifers below. Groundwater flow in the glacial deposits generally is downward in recharge areas near topographic highs, and upward in discharge areas near streams and in other low-lying areas. The hydraulic properties in the Lockport dolomite and limestone are related to secondary porosity and permeability owing to the presence of fractures and solutioning. The main water-bearing zones in the Lockport Group are the weathered bedrock surface and horizontal fracture zones near stratigraphic contacts. The rock matrix transmits negligible amounts of groundwater because primary porosity is very low. Horizontal hydraulic conductivity of the weathered bedrock is estimated at 40 feet per day.

In the Lockport Group, groundwater flows from topographic highs near the Niagara Escarpment north toward the escarpment, and south and west toward the low-lying areas near the Niagara River and outcrop areas along the Niagara River Gorge. Recharge of groundwater into the Lockport Group is influenced by manmade structures such as reservoirs and unlined sewers.

### 2.5 Site Utilities

*Water Service* – The City of Niagara Falls provides potable water service to the Property.

*Sanitary Sewer System* — The Town of Niagara provides sanitary sewer service to the Property. The primary source of the wastewater directed to the sewer system includes nonprocess wastewater (bathrooms, sinks, etc.), the discharge from the OWSs, and vehicle washing and maintenance runoff.

*Gas and Electric* – National Fuel provides natural gas service to the Property; National Grid (formerly Niagara Mohawk) provides electric service.

### 2.6 Water Supply Wells and Septic Systems

Based on 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 on the Property. Potable water is supplied by the City of Niagara Falls. The City of Niagara Falls has supplied potable water to the buildings since they were constructed.

# 3 Site History

### 3.1 History of Ownership

The chain of title for the Property (Appendix C) was obtained for this ECP from NETR Real Estate Research and Information (NETR). Information provided by NETR, which had records dating back to 1933, indicates the Property was owned by private individuals until 1955, when the warranty deed was transferred to the Unites States of America. This is inconsistent with information presented in the PA (Engineering Technologies Associates, 1994), which indicates the Property was developed in 1939 by the U.S. Navy as an air station. According to the PA (Engineering Technologies Associates, 1994), the U.S. Army acquired the Property in about 1962 as a sub-installation of Fort Drum, New York.

According to a city directory provided by EDR and dated July 24, 2006, the address of the USAR Center was first listed in the research source (Polk's City Directory) in 1975. City directory searches from 1995 to 2005 (Haines Criss-Cross Directory) do not list the Property. A copy of the city directory entry is included in Appendix E.

### 3.2 Past Uses and Operations

The PA for the Property (Engineering Technologies Associates, 1994) cites an unreferenced reports as stating that the Property was "known to have been a landfill prior to the original construction of the Naval Air Station." Water lines at the Property were deteriorating because of the presence of corrosive soils. Soil chemical analyses indicated high sulfate concentration and low resistivity, along with the presence of non-uniform soils. A corrosion survey of the Property reportedly was performed in 1983. The corrosion survey concluded that that water line corrosion was likely due to mechanical reasons, and that corrosion was mainly due to "plug type graphitization resulting from the non-uniform backfill." The PA states that "no additional documents could be located to confirm or deny the potential presence of a landfill." The PA states that numerous excavations completed at the Property for upgrading utility lines and other similar objectives did not find evidence for a landfill. These excavations, however, were not carried out with the specific objective of proving or disproving the existence of a landfill at the Property. The PA recommended additional records reviews and subsurface sampling on the Property with the objective of determining whether a landfill was previously located at the Property. During preparation of this ECP report, a review of representative historical USGS topographic maps (dating back to 1899) and aerial photographs (dating back to 1963) for the Property did not provide evidence of surficial disturbance indicative of landfilling activities. The PA also recommended sediment sampling in Cayuga Creek to evaluate discharges from building floor drains into the storm sewer. No information was available to indicate that such sampling had been performed.

The U.S. Navy historically used the Property to service and maintain helicopters and airplanes. By 1956, it had constructed most of the buildings now on the Property. The 1948 USGS topographic map (Figure 5, Appendix A) shows what appears to be the former hangar/reservoir in the southeastern part of the Property. Although the chain of title for the

Property indicates the U.S. Government acquired the Property in 1955, it appears the Navy used the Property at least as early as 1948. This use is consistent with information in the PA (Engineering Technologies Associates, 1994), which indicates the Navy originally developed the Property in 1939. Aircraft maintenance was performed in the hangar at Building 4. According to personnel at the Property, there were two additional wooden hangars on the Property, in the approximate area occupied by Buildings 18 and 21, and east of Building 4, toward the east Property boundary. The wooden hangars were demolished at an unknown date, and personnel indicate the hangars burned down while demolition was in progress.

A structure consistent with the descriptions of the former hangars is visible in the eastern part of the Property on the aerial photograph of 1963 (Figure 6, Appendix A) but not on the aerial photograph of 1979 (Figure 7, Appendix A). Concrete pavement having markings and pads for helicopter parking were visible during the site reconnaissance, east of Buildings 4 and 18. A water reservoir provided as a backup water supply for firefighting, a concrete vault used for coal storage, two USTs (one 10,000-gallon, one 20,000-gallon), and a building (Building 2) reportedly were located on the eastern and southern parts of the Property. The structures reportedly were built during the original construction at the Property. According to personnel, the tanks and concrete vault were demolished in 1987 or 1988. The Property reportedly stopped using coal in 1955 or 1956. No evidence of outdoor coal storage is apparent in the aerial photographs reviewed by CH2M HILL. The reservoir and Building 2 were demolished sometime between 1995 and 1997. A water systems improvement map from 1993 confirms the presence of the reservoir and Building 2. The area formerly occupied by the reservoir and Building 2 is now part of the MVPA, north of Building 26.

The U.S. Government acquired the Property in 1955 and has owned it since (NETR, Appendix C). Various units within the USAR have used the Property since that time, including the 277th QmC (a refueling unit), the 865th CSH (a field medical unit), and the 1982nd Forward Surgical Unit (a field surgical unit). Personnel from the Fort Drum DPW also are based at the Property in Building 21. Property personnel indicated the New York Army National Guard (NYARNG) was a tenant on the Property from about 1972 to 1995.

From about 1970 to 1975, the Property, specifically the Building 4 hangar, was used to service Nike missiles from missile batteries around the state of New York. Property personnel did not know of specific activities performed as part of Nike missile service at the USAR Center, nor was such information reasonably available from historical site-specific records. Based on common operations involved in the assembly and service operations for Nike Ajax missiles, as reported in a *Final Report, Nike Missile Battery, Environmental Conditions Assessment Guide, DERP-FUDS* (USACE-HTRW-CX, July 2003), Nike missiles were transported for servicing, disassembled, and packed in crates. Organizational maintenance consisted of lubrication, painting, periodic preventive maintenance services, troubleshooting, and specified maintenance of the missile and missile guidance system. The components of the missile system were repacked prior to shipment. According to Property personnel, only Nike missiles having conventional warheads were serviced at the Building 4 hangar.

### Building 4

The Navy used Building 4 since its construction (1956) to about 1970 to service and maintain helicopters and airplanes. From about 1970 until 1991, the Army used the building for

helicopter maintenance. Personnel indicated that the NYARNG used the hangar to park, service, and maintain two aviation companies, reduced to one aviation company of 21 UH-1 helicopters. Property personnel also indicated that from about 1970 to 1975, Building 4 served as a Nike missile support center, where missile warheads were serviced and maintained from locations in the state of New York. From the late 1970s to about 1994, the 42nd Aviation Battalion, part of NYARNG, used and serviced about 30 helicopters in the hangar. The 865th CSH, which includes hospital units, a petroleum company, and a drill sergeant unit, used the building to store equipment, and for administrative, educational, and logistical purposes. Reservists of the 865th CSH historically used Building 4 for drill activities on weekends throughout the year.

Review of previous reports (Appendix D) indicates aircraft service mechanics used Stoddard solvent, until about 1991, to clean aircraft parts. The USACE-HTRW-CX report on Nike missile batteries (July 2003) indicates the service and maintenance of Nike missiles routinely involved use of POL and hazardous substances, including trichloroethylene (TCE). Another report, prepared for the USACE Huntsville District (*Final Report, Investigation of Former Nike Missile Sites for Potential Toxic and hazardous Waste Contamination,* Law Engineering Testing Company, March 1986), indicates that waste disposal practices varied from one location to another, and could have included storage in drums as well as "unofficial" disposal to the ground and subsurface.

Drainage from the Building 4 hangar reportedly flowed into storm drains for several decades before installation of the OWS (1994) near Building 4. A PA performed in 1994 recommended sediment sampling in Cayuga Creek to evaluate discharges from building floor drains into the storm sewer. No information was available to indicate that such sampling had been performed.

#### 277th QmC OMS Shop and AMSA No. 76, Building 18

The southern part of Building 18 houses the 277th QmC OMS. Activities inside the OMS building were limited to preventive maintenance checks, including checking and changing vehicle fluids such as motor oil, water, and antifreeze, and light maintenance activities. Associated equipment, tools, POL, and hazardous waste, were stored at the OMS prior to offsite disposal.

The northern part of the building has housed AMSA 76 since it was constructed in the 1990s. The AMSA performed vehicle maintenance for the units stationed at the Property, and storage of associated equipment, tools, used POL, and other chemicals, and vehicle battery recharging.

#### **Building 19**

The 277th QmC reportedly used Building 19 as a dining hall 15 to 20 years ago. Previous use could not be determined.

#### Building 21

The 277th QmC used Building 21 to maintain and service vehicles, to store equipment, and for classroom training and administration.

### Oil/Water Separators

As stated in Section 2.3, three OWSs are located on the Property. The vehicle wash rack and OWS located near Building 18 were reportedly installed between 1986 and 1988. The OWS located near the southwestern corner of Building 4S was reportedly installed in 1994. The third OWS located adjacent to the east wall of Building 21 reportedly was installed at the time of original building construction.

Prior to installation of the OWS near Buildings 4 and 18, Property personnel indicated aircraft and vehicle service and wash water drained into the storm drains.

### Chemical and Equipment Storage in Other Buildings

Several other buildings on the Property were used to store equipment and chemicals, many in reportedly de minimis quantities commensurate with use onsite. The buildings include Building 20 (lead acid batteries, tires, oil and enamel paints, POL), Building 22 (dry transformer, POL), Building 25 (acrylic and latex-based paints, empty spill containment drums), and Building 26 (oil and enamel paints). As stated in Section 2.3, the POL shed is the main storage area for new and unused POL supplies (inventory in Appendix C).

Historical aerial photographs and topographic maps were used as sources of information on the past use and operations at the Property. Figures 3, 6, 7, and 8 (Appendix A) provide USGS topographic maps and aerial photographs of the Property and surrounding areas.

The 1948 USGS topographic map (Figure 5, Appendix A) shows the Property and Niagara Falls International Airport (then known as Niagara Falls Municipal Airport). One large structure is depicted on this map in the approximate location of the former hangars, in the eastern part of the Property. Adjacent areas north and west appear undeveloped. Porter Road is depicted in roughly its current location. The adjacent area south of Porter Road appears forested or marshy.

The 1963 black and white aerial photograph (Figure 6, Appendix A) shows structures in the location of the former hangars, Building 4, and additional structures in the southern part of the Property, not clearly discernible. The northern half of the Property appears to be paved with concrete (light gray color). A road extending north about 1,200 feet from the location of Building 4 and then west is seen in the aerial photograph. Runways and taxiways of the Niagara Falls International Airport, which appears to have expanded west from 1948, are visible north and east of the Property.

The 1965 USGS topographic map (Figure 3, Appendix A) shows structures on the Property in the location of the former hangar, Building 4, Building 21, and four other structures south of Building 4. Adjacent properties appear similar to those depicted on the 1963 topographic map. More development is apparent in the surrounding area. The Niagara Falls Air Force Base is seen north of Niagara Falls International Airport. The 1979 aerial photograph (Figure 7, Appendix A) shows Buildings 4, 18, 22, and several smaller structures on the Property. A structure similar to a reservoir is apparent in the southeast corner of the Property. Several parked airplanes are visible in the adjacent property east. An asphalt paved area is visible east of Building 4.

The 1995 aerial photograph (Figure 8, Appendix A) is similar to the 1979 photograph, but additional development appears to have taken place west of Cayuga Creek. No evidence of

any recognized environmental conditions, including landfilling, is apparent on the aerial photographs reviewed.

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

### 3.3.1 Past Use and Storage of Hazardous Substances

Information related to the past use and storage of hazardous substances at the Property was compiled through review of available site records, search of federal and state environmental databases, and interviews with USAR personnel at the Property. Chemicals formerly used and stored at the Property were associated with aircraft and vehicle maintenance, Nike missile servicing, and facility maintenance activities and janitorial services. Janitorial chemicals and products related to building maintenance were stored in the designated storage area within the janitorial closets located in several buildings on the Property. Vehicle maintenance products and POL products also were stored within designated areas within Building 18 (OMS and AMSA areas), Building 20, Building 21, and several outdoor storage sheds.

Although no specific records were reasonably available regarding hazardous substances used at the Property, aircraft maintenance and Nike missile servicing typically involved the use of several hazardous substances, including solvents (tetrachloroethylene [PCE], TCE, benzene, carbon tetrachloride, 1,1,1-trichloroethane [TCA], and 1,1,2-TCA), nitric acid, sodium dichromate, sulfuric acid, zinc chromate, and paint. Use and storage of these materials varied considerably (Law Engineering Testing Company, 1986). The solvents were used in cleaning, corrosion removal, painting, and preparation of parts. Sodium dichromate and zinc chromate were used in metal cleaning and paints, respectively. Sulfuric acid was used in lead acid batteries. Metallic selenium was used in rectifier parts. The Nike Ajax missiles used a 28-volt silver-cadmium battery that used potassium hydroxide as the electrolyte.

### 3.3.2 Past Disposal and Release of Hazardous Substances

Information related to past disposal and potential release of hazardous substances at the Property was compiled through review of available site records, search of federal and state environmental databases, and interviews with USAR personnel. Available records indicate that reportable quantity releases of hazardous substances have occurred at the Property.

USAR conducted a PA of the Property in 1994, in which a release of 120 gallons of transformer oil containing PCBs (250 parts per million) was identified (Engineering Technologies Associates, 1994). The release occurred in 1991. A transformer fell and broke over a storm sewer drain, east of Building 22. The PCB oil spilled on the pavement and into the drain. Surface paving materials, soils, and storm drain materials were remediated after the spill. On October 31, 1991, the New York State Department of Environmental Conservation (NYSDEC) indicated that the spill had been adequately remediated.

In September 1999, during removal of a 550-gallon UST associated with a wash rack outside Building 18, TCE was detected in soil at concentrations exceeding the NYSDEC allowable soil concentration of 7 parts per billion (ppb) (http://www.dec.state.ny.us/website/der/ tagms/prtg4046b.html). The concentration of TCE, however, was less than the NYSDEC recommended soil cleanup objective of 700 ppb, which was obtained by multiplying the allowable soil concentration by a correction factor of 100. The EDR report (Appendix E) indicates the spill was closed in February 2000, and a phone conversation with NYSDEC (January 22, 2007) indicated that this spill is no longer on the NYSDEC database. The NYSDEC further indicated that the tank was not required to be registered because it was associated with an OWS.

### 3.4 Past Presence of Bulk Petroleum Storage Tanks

Based on a review of available site records and a search of federal and state environmental databases, five bulk petroleum storage tanks located at the Property were removed between 1990 and 1999. The database also lists one 528-gallon AST for the Property. The AST is used to store used oil and is made of steel/carbon steel. It is listed as being located on stilts/ saddles/legs/rack or cradle. The AST was observed during the site reconnaissance adjacent to the POL shed (Building 17). Table 1 summarizes AST/UST data for the Property from the EDR report and from Property personnel.

#### TABLE 1

Storage Tank Information

Niagara Falls USAR Center, Niagara Falls, New York

No.	Tank Description	Source	Date Removed/Closed	Removal Documented?	Remarks/Status
1	3,000-gallon unleaded gasoline UST	EDR	Removed July 1, 1990	Closed per EDR	Closed.
2	10,000-gallon No. 1, 2, or 4 fuel oil vaulted UST	EDR	Removed October 1, 1991	Closed per EDR	Closed.
3	20,000-gallon No. 1, 2, or 4 fuel oil vaulted UST	EDR	Removed October 1, 1991	Closed per EDR	Closed.
4	One 550-gallon waste oil UST located beneath concrete pad, adjacent to wash rack	EDR	Removed September 20, 1999	Closed per EDR	Closed.
5	One 1,000-gallon waste oil UST near OWS	EDR	Removed September 22, 1999	Closed per EDR	Closed.
6	One large gasoline UST near former building near Building 21	Property personnel	Removed 1984 or 1985	No	Not listed in EDR report or other studies. No additional information or documents are available.
7	One 250- or 400- gallon waste oil holding tank (UST)	Property personnel	Removed mid- 1990s	Yes; appears same as No. 4	Closed. Records indicate a spill was registered during tank removal, and TCE

#### TABLE 1

Storage Tank Information

	Niagara Falls	USAR Center	, Niagara Falls	, New York
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No.	Tank Description	Source	Date Removed/Closed	Removal Documented?	Remarks/Status
	near wash rack				detected in closure soil samples at concentrations less than the NYSDEC Recommended Soil Cleanup Objective (see Sections 3.5.2 and 5.2.5).
8	One 600-gallon waste oil UST near OWS by Building 4	Property personnel	Removed 1984 or 1985	Yes; appears same as No. 5	Closed. Records indicate a spill was registered during removal, and PAHs were detected in closure soil/groundwater at concentrations less than the NYSDEC Recommended Soil Cleanup Objective (see Section 3.5.2 and 5.2.5)
9	One 250-gallon fuel oil AST outside Building 19	Property personnel	1989 or 1990	No	Not listed in EDR report or other studies. No additional information available.
10	One 250-gallon fuel oil AST outside Building 23	Property personnel	1989 or 1990	No	Not listed in EDR report or other studies. No additional information available.
11	One 250-gallon fuel oil AST outside Building 26	Property personnel	1989 or 1990	No	Not listed in EDR report or other studies. No additional information available.
12	Two 20,000-gallon USTs associated with former hangars and reservoir	Property personnel	1987 or 1988	Yes; appears same as No. 2 and No. 3	Closed.
13	Two 25,000-gallon heating oil USTs, south and east of Building 25	Property personnel	1987 or 1988	No	Not listed in EDR report or other studies. No additional information available.
14	AST on cradle/rack/stilts	EDR	Not applicable—tank is in use	Same as AST (528-gallon) is in Building 17 (POL Shed)	Tank is in good condition, and no indications of a spill or a release.

PAH – polycyclic aromatic hydrocarbon

Based on a comparison of information in the EDR report and information provided by Property personnel, there is no reasonably available documentation on the removal of six tanks, including the three 250-gallon fuel oil tanks outside Buildings 19, 23, and 26; the one gasoline UST near former building near Building 21; and the two 25,000-gallon heating oil tanks located south and east of Building 25.

### 3.5 Review of Previous Environmental Reports

The following subsections briefly summarize the environmental reports. Copies of the reports, unless otherwise specified, are provided in Appendix D.

### 3.5.1 1994 Preliminary Assessment

The object of the PA, completed by Engineering Technologies Associates, Inc., was to review available information regarding past practices related to hazardous waste storage, handling, and disposal at the Property. No environmental sampling was performed. The PA report noted that the Property may have been built on a former landfill, which was significant, given the industrial and chemical manufacturing facilities nearby, including the former Love Canal Superfund site.

The PA further describes the subject of the landfill as follows. A document was prepared in support of a funding request for replacement of water lines at the Property. Although this document was unreferenced, it reportedly stated that the Property was "known to have been a landfill prior to the original construction of the Naval Air Station." This document reported deterioration of water lines, high sulfate concentrations in soil, and low resistivity, and anticipated a "corrosion problem" of "severe magnitude." A corrosion survey was conducted at the Property in June 1983 by Professional Services Group (PSG). The PSG study reportedly concluded that water line corrosion was likely due to mechanical reasons, and that corrosion was mainly due to "plug type graphitization resulting from the nonuniform backfill." The PA stated that no further documents could be found to confirm or deny the presence of a landfill. The PA also referenced a study by Alexander (1983), which reportedly stated that several excavations had occurred since the Army acquired the Property. These excavations were performed for building foundations, remediation of a PCB spill, water line installations, and UST removals. None of these excavations found evidence for a landfill at the Property. Based on information reviewed, the PA recommended that chain-of-title, aerial photographs, and other Property records be reviewed to ascertain whether there was a landfill at the Property. The PA also recommended installing "at least a sufficient number of sample borings on the installation to attempt to confirm or refute the existence of subsurface landfill materials, allegedly placed prior to site acquisition by the U.S. Government."

The PA noted that principal operations at the Property included aircraft and vehicle maintenance, and USAR personnel training. The PA describes aircraft cleaning operations, which were conducted inside the hangar in Building 4, or outside on an asphalt covered cement pad. Cleaning solutions used for cleaning included soap/detergent concentrates, and "small quantities" of methyl ethyl ketone (MEK) and "PD-680" used locally and sparingly. The principal pathway of potential contamination from the site was by floor drains that led to the storm sewer system, entering the surface water system at Cayuga Creek. The PA did not mention the service of Nike missiles.

### 3.5.2 1999 Underground Storage Tank Removals

Sverdrup Environmental, Inc. removed and closed two USTs located on the Property. One 550-gallon fiberglass tank (removed September 20, 1999), used to store waste oil, was located adjacent to the vehicle wash rack. A 1,000-gallon steel tank (removed September 14,

1999) was used to store waste oil from an OWS. (The report does not specify the location of the OWS.) Both tanks were in good condition when removed, but groundwater entered the 550-gallon UST during removal because it was demolished in the ground and removed in pieces, creating a visible sheen on the water. The spill was reported to NYSDEC. The contents of the 550-gallon UST and excavated soil were classified as hazardous based on Toxicity Characteristic Leaching Procedure (TCLP) analytical data for lead, cadmium, and selenium. Therefore, excavation soil samples also were sampled for hazardous material.

Soil sampling from the 550-gallon tank excavation indicated TCE at 42 ppb from an excavation sidewall composite sample and 6.6 ppb in an excavation floor composite sample. The concentration from the sidewall composite sample exceeded the current NYSDEC allowable soil concentration of 7 ppb (Technical and Administrative Guidance Memorandum [TAGM] 4046-VOCs Soil Cleanup Criteria Table 1). The concentration of TCE, however, was less than the NYSDEC recommended soil cleanup objective of 700 ppb, which is obtained by multiplying the allowable soil concentration by a correction factor of 100. The EDR report (Appendix E) indicates the spill was closed in February 2000. Sverdrup reported that no compounds were detected in the soil closure samples at concentrations exceeding the NYSDEC Spill Technology and Remediation Series (STARS) Memorandum 1 alternative guidance values (AGVs) for solids.

During removal of the 1,000-gallon UST, the tank was turned over in the excavation pit, allowing groundwater to flow into and out of the tank. Soil and water samples from the excavation indicated the presence of polycyclic aromatic hydrocarbons (PAHs) at concentrations exceeding the NYSDEC STARS Memorandum 1 AGVs and extraction guidance values, respectively, including some PAHs, which were reportedly detected at concentrations exceeding the human health guidance values and soil and water TCLP values. All detections of PAHs, however, were significantly less than the recommended soil cleanup objective (TAGM 4046 – SVOCs Soil Cleanup Criteria Table 2). Sverdrup noted that the probable source of the contamination (the tank and product piping) had been removed, and that it was possible that contaminants identified in the groundwater sample were due to mixing of residual tank contents and groundwater in the excavation.

The closure report recommended no further action (NFA) for both tanks because of "the lack of petroleum contamination in the soil surrounding the 550-gallon UST" and "the limited nature of the petroleum contamination in the soil surrounding the 1,000-gallon UST." Information obtained as part of this ECP and information obtained from NYSDEC, Region 9, indicates that both spills areas were closed on February 22, 2000. Appendix D of this report indicates that 400 pounds of hazardous waste containing lead, cadmium, and selenium, and 6,000 pounds of nonhazardous waste were transported offsite in November 1999.

Property personnel indicated that the 550-gallon UST may be the same as the 250- or 400-gallon UST reportedly removed in the mid-1990s. Property personnel also indicated that the 1,000-gallon UST formerly located near an OWS may be the same as the 600-gallon waste oil UST removed from near the OWS by Building 4 in 1984 or 1985.

### 3.5.3 2004 Asbestos Inspection Report

Environmental Enterprise Group, Inc. conducted an inspection of the Property to identify asbestos-containing material (ACM) at the Property. Suspect ACM was sampled in accordance with Asbestos Hazard Emergency Response Act-style guidelines. The report noted that confirmed ACM was identified in Buildings 4, 19, 21, 22, 23, and 26, in floor tile, floor tile mastic, fire doors, piping thermal system insulation (TSI), vent ducts, and roofing mastic. ACM not removed from the Property was required to be documented in an operations and maintenance plan.

### 3.5.4 2006 Stormwater Pollution Prevention Plan Update

Bowne AE&T Group performed an update on the Stormwater Pollution Prevention Plan originally prepared by the USGS. The plan describes the drainage features in each building, surface water flow on the Property, and potentially polluting materials and their handling and storage.

# 4 Adjacent Properties

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

### 4.1 Land Uses

Land use south of the USAR Center is County right-of-way for a highway. The highway is Porter Road, Route 182, and is undivided. Undeveloped, wooded land is located directly south of the highway.

The land north of the Property is used as an airport by the Niagara Frontier Transportation Authority (NFTA). The land immediately north of the Property is part of the Niagara Falls International Airport.

Land east of the Property appears to be used as a storage area, with numerous small sheds located immediately east of, and parallel to, the Property fence. The land is owned by NFTA.

Land west of the Property is grass-covered and appears to be unused. The concrete top of an apparently unused fuel UST owned by the NFTA is visible from the Property. Personnel indicated there were originally two such tanks adjacent to each other, but one was removed at an unknown date. No information regarding spills or leaks from these tanks was reported in the EDR report, which includes a search of the state database.

West of the NFTA land is Cayuga Creek. West of the creek is a strip mall having a nursery, an eyeglass shop, and numerous small businesses.

### 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 affect the Property.

The Niagara Falls Airport/Air Force Base with a listed address of 9400 Porter Road (same as the Property) was listed as having had one spill of 50 gallons of jet fuel on December 2, 1999. The spill was caused because an automatic shutoff system did not function while the truck was being refueled. The spilled fuel and contaminated material were disposed of offsite. The spill was closed on March 28, 2000.

Niagara Mohawk Pole, with a listed address of 9401 Porter Road, less than 0.125 mile west of the Property, was reported as having a spill of 3 gallons of transformer oil on May 19, 1999. Three gallons of oil were reported as "recovered," and the spill was closed on the same date. The cause of the spill was reported as a possible lightning strike.

Cecos International, Inc., located less than 0.125 mile east-northeast of the Property, with an address of Box 340 L PO, Niagara Falls, is listed in the UST and AST database. One 2,000-gallon UST and one 6,000-gallon diesel UST were removed and closed at the site before April 1991. Four ASTs, either 250-gallon or 300-gallon capacity, are located on the site. The tanks reportedly are unregulated because they are less than 1,101 gallons in capacity.

Water well databases at the federal and state level were reviewed to identify any water supply source near the Property. Two locations were identified in a USGS database within 0.25 mile of the Property. USGS 2242961 is located less than 0.125 mile north-northwest of the Property, and is topographically higher than the Property. USGS 2242955 is located less than 0.25 mile east of the Property and also is topographically higher than the Property. Both wells are listed as "test holes"; that is, no well was completed at either location. No public water supply system or other state-registered well was identified in the database within a 1-mile radius of the Property.

Land use at adjacent properties does not appear to have changed substantially over the years, based on a review of available aerial photographs (1963, 1979, and 1995).

# 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 that is likely to cause or contribute to a release or threatened release of any hazardous substance or any petroleum product to the Property.

Most of the regulatory information for this ECP was obtained from EDR on July 13, 2006. EDR provides a regulatory database summary that consolidates standard federal, state, local, and tribal environmental record sources based on ASTM D6008-recommended minimum search distances from the Property.

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

### 5.1 Federal Environmental Records

### 5.1.1 Federal National Priorities List Sites within 1 Mile

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

### 5.1.2 CERCLA Information Systems Sites within 0.5 Mile

The CERCLA Information System (CERCLIS) contains data on potentially hazardous waste sites that have been reported to USEPA by states, municipalities, private companies, and private persons, pursuant to Section 103 of the Act. CERCLIS contains sites that either are proposed to be or are on the NPL, and sites that are in the screening and assessment phase for possible inclusion on the NPL. The USAR Center is not a CERCLIS site, and no CERCLIS sites are located within 0.5 mile of the Property.

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

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

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

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

includes selective information on these sites. The USAR Center is not an RCRA TSD site, and no such sites are located with 0.5 mile of the USAR Center.

### 5.1.5 Federal RCRA Small and Large Quantity Generators 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 and 1,000 kg of hazardous waste per month. A facility generating more than 1,000 kg of hazardous waste or more than 1 kg of acutely hazardous waste per month is defined as a large quantity generator.

The USAR Center is listed as an RCRA registered small quantity generator. No RCRA violations are associated with the USAR Center. No adjacent property owner is a RCRA registered small quantity generator. No large quantity generators are located within 0.25 mile of the USAR Center.

### 5.1.6 Federal Emergency Response Notification System List

The Federal Emergency Response Notification System (ERNS) List maintains information on reported releases of oil and hazardous substances. The Property is on this list because of the PCB spill in 1991 (see Section 3.3.2).

### 5.2 State and Local Environmental Records

Most of the information presented in this subsection was obtained from the EDR report. Additional information was obtained from online database searches of the State of New York's Web site.

### 5.2.1 State Lists of Hazardous Waste Sites within 1 Mile

The USAR Center is not on the state list of hazardous waste sites. No adjacent properties within 1 mile of the Property were listed as having a hazardous waste site.

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

The USAR Center does not have a solid waste landfill, incinerator, or transfer station within the Property boundaries. No adjacent properties within 0.5 mile of the Property have a solid waste landfill, incinerator, or transfer station.

### 5.2.3 State-Registered Leaking UST Sites within 0.5 Mile

In addition to information obtained from the EDR report, the New York Division of Underground Storage Tanks maintains a comprehensive database of leaking underground storage tank (LUST) sites. The USAR Center is not listed in the state LUST database.

Seven LUST sites were identified within 0.5 mile of the Property. Table 2 summarizes information relative to the USAR Center and provides the status of corrective actions. All seven sites have been closed and have NFA status, indicating they do not pose a threat to human health and the environment and, thus, no environmental effect on the Property.

#### TABLE 2

Leaking Underground Storage Tank Sites
Near Niagara Falls USAR Center, Niagara, New York

Company/Site	Address	Distance and Direction from Property	Regulatory Status	Elevation Relative to Property
company/one	Address	Troperty	Otatus	Порену
Cayuga Village	512 B Street, Niagara Falls, NY	Approx. 1,473 feet south-southwest	Closed	Lower
Rausmann Residence	431 A Street, Niagara Falls, NY	Approx. 1,573 feet south	Closed	Lower
Dunn Tire	9540 Niagara Falls Boulevard, Niagara Falls, NY	Approx. 1,761 feet south-southeast	Closed	Lower
Cayuga Village	640 C Street, Niagara Falls, NY	Approx. 1,785 feet southwest	Closed	Lower
Cayuga Village Mobile Park	Niagara Falls Boulevard, Niagara Falls, NY	Approx. 1,957 feet south	Closed	Lower
Rainbow Tire	9340 Niagara Falls Boulevard, Niagara Falls, NY	Approx. 2,053 feet south	Closed	Lower
Maria Healey (home)	9200 Niagara Falls Boulevard, Niagara Falls, NY	Approx. 2,309 feet south-southwest	Closed	Lower

#### 5.2.4 State-Registered UST Sites and AST Sites within 0.5 Mile

Based on a review of the EDR report and the State of New York's UST and AST database, one UST site and one AST site were identified within 0.25 mile of the Property. The Property also is listed in the state UST and AST database.

A 3,000-gallon UST used for unleaded gasoline storage was properly removed from the Property on July 1, 1990. The UST was installed on June 1, 1966. A 10,000-gallon UST and a 20,000-gallon UST, used to store No. 1, 2, or 4 fuel oil, were properly removed from the Property on October 1, 1991. Both USTs were installed on June 1, 1965. In addition, the database lists one 528-gallon AST for the Property. The AST is used to store used oil. It is listed as being located on stilts/saddles/legs/rack or cradle and was last inspected on July 9, 1990, and having an expiration date of January 19, 2001. This tank was observed during the site reconnaissance adjacent to the POL shed (Building 17).

USTs and ASTs were located on the Cecos International, Inc. property. One 2,000-gallon UST and one 6,000-gallon diesel UST were removed from the Cecos property before April 1991. Four ASTs, either 250-gallon or 300-gallon capacity, are located on the Cecos property. The ASTs are reportedly unregulated because they are less than 1,101 gallons in capacity. The Cecos property is located topographically higher than and less than 0.125 mile from the USAR Center.

The two USTs on the adjacent west NFTA property (one of which was removed from the ground, according to Property personnel) were not listed in the state's UST or AST database. It is not known whether these USTs have leaked.

### 5.2.5 State Spills Incidents

The USAR Center is listed on the New York State petroleum spill list. There were two spill incidents at the Property; both spill incidents are classified "closed." The incidents are described below.

• A release of an unknown quantity of waste/fuel oil was recorded on September 21, 1999. Two 550-gallon waste oil tanks associated with an OWS were scheduled to be removed. While removing the tanks and associated piping, one of the tanks cracked. A "small amount" of groundwater entered the tank and then spilled out from the tank, producing a sheen on the water. The water was pumped into 55-gallon drums and disposed of. No affected soil was observed. The spill was closed on February 22, 2000.

Based on information provided by personnel and information in historical documents, the "two 550-gallon waste oil tanks" consisted in reality of one 550-gallon UST by the wash rack and associated OWS, and one 1,000-gallon UST by the OWS near Building 4. As indicated in Table 1, these tanks and the associated spills have been closed by NYSDEC (Sections 3.4 and 3.5.2).

• On October 18, 1991, 200 gallons of No. 2 fuel oil were released while a UST was being removed. The tank contents were stored in a concrete vault, and sorbents were used to hold the spill. The sorbents were later disposed of, and no further action was required. The spill was closed on March 6, 1992.

No corresponding information about this spill or tank could be determined from interviews with Property personnel.

One additional property located less than 0.125 mile from the USAR Center is listed in the spills database. The Niagara Falls Airport/Air Force Base, with a listed address of 9400 Porter Road (same as the Property), was listed as having had one spill of 50 gallons of jet fuel on December 2, 1999. The spill was caused because an automatic shutoff system did not function while the truck was being refueled. The spilled fuel and contaminated material were disposed of offsite. The spill was closed on March 28, 2000.

### 5.2.6 Records of Contaminated Public Wells

The City of Niagara Falls does not own or operate any municipal water supply wells within 0.5 mile of the USAR Center.

### 5.2.7 Voluntary Remediation Program Sites within 0.5 Mile

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

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

The USAR Center is not registered with the state as a bulk fertilizer and pesticide storage facility. 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 USAR Center but no street address. These sites, known as unmapped or orphan sites, cannot be mapped from the EDR results alone. Additional efforts were made to locate these sites and to assess their environmental importance to the USAR Center.

Using the mapping utility provided at maps.google.com, an attempt was made to identify and map the locations of the orphan sites. None of the identifiable sites was located within corresponding ASTM search radius distances.

### 5.4 Summary of Properties Evaluated to Determine Risk to the Property

To summarize, 29 properties near or adjacent to the USAR Center were evaluated for potential risk to the Property. Based on information obtained during area reconnaissance, interviews, and regulatory database searches, the adjacent west NFTA property exhibits potential environmental conditions that have the potential to adversely affect the environmental conditions at the Property.

One UST was removed from the NFTA property, which is located close to the west boundary of the USAR Center. It is not known when the UST was removed. The top of another UST that is reportedly empty was visible on the NFTA property during the site reconnaissance. The former uses and contents of both tanks are unknown. There is no record of these tanks with NYSDEC; furthermore, NYSDEC has no records that indicate a spill occurred from either tank.

# 6 Site Investigation and Review of Hazards

Findings documented in the following subsections are based on the August 16 and 17, 2006, site reconnaissance, a review of available site records, and information obtained from USAR personnel.

# 6.1 USTs/ASTs

A 528-gallon waste oil AST installed around 1990 is located near the northeastern corner of the Property. The AST is located within a concrete containment structure and receives used oil from the AMSA shop and OMS.

# 6.2 Inventory of Chemicals/Hazardous Substances

Records pertaining to hazardous substances including hazardous materials, chemical bulk storage, and hazardous waste, and records pertaining to petroleum products and petroleum waste were reviewed, along with interviews and site reconnaissance conducted to develop the inventory for the Property. Available records indicate that hazardous materials and POLs are stored, and had been stored, at the Property. These materials include batteries, acids, paints, methanol, fuel oil, lubricating oil, gear oil, waste oil, rifle bore cleaner, transmission fluid, antifreeze, motor oil, gasoline, diesel, and acetylene and oxygen gas cylinders. AMSA employees said that AMSA generates, on average, 50 gallons of used engine oil, 10 gallons of antifreeze, 5 gallons of hydraulic fluid, and 5 gallons of waste diesel every month. Activities in Building 21 reportedly generate a minimal quantity of used oil each month.

#### **Building 17**

During the site reconnaissance, the shed (Building 17) contained lubricating oil, antifreeze, grease (including aircraft grease), diesel, and hydraulic fluid. An inventory of the items stored inside the shed at the time of the site reconnaissance was reviewed, and indicates that POL products, such as engine oil (240 pounds), grease (600 pounds), diesel (35 gallons), gasoline (5 gallons), windshield washer fluid (20 cases), and antifreeze (75 gallons), are stored in containers ranging from 55-gallon drums to 5-gallon containers. Empty containers for kerosene also are in Building 17.

#### Building 18

The OMS is used to perform vehicle maintenance and to store related equipment, tools, POL, and hazardous waste prior to offsite disposal by a licensed contractor. At the time of the site reconnaissance, the OMS shop contained three flammable storage cabinets, one 55-gallon drum of used oil, and one 55-gallon drum of engine oil on the main bay floor, and degreasing solvent cans containing TCE and PCE as components.

An inventory of the chemicals stored in flammable storage cabinets in the AMSA indicates that degreasers, brake cleaning fluid, penetrating grease, lubricant sprays, adhesives,

fiberglass resin, paint, insect killer and repellent, primer, isopropyl alcohol, denatured alcohol, coolant cleaner, floor cleaners, and methanol, are stored in numerous small containers for a total approximate quantity of several tens of pounds.

During the site reconnaissance, additional chemical and equipment storage was observed in the AMSA. Additional storage included 55-gallon drums and 5-gallon containers containing used oil, new engine oil, lubricants, paints, rust prevention sprays, spill kits, gasoline, diesel, vehicle batteries, crushed oil filters, a parts washer, a water recycling system (not used because of malfunction), nonpetroleum-based soap, and a drum containing used rags. The substances appeared to be properly stored, and no indication of a release to the environment.

#### Building 20

An inventory of the items stored in the battery room at the time of the site reconnaissance indicated that fifty 1-gallon acid batteries, five boxes of washer fluid each containing seven bottles, and twelve 1-gallon hydraulic oil containers were stored inside the battery room.

#### Building 21

Two maintenance bays are located on the east side of the building, where equipment is stored and light vehicle maintenance is performed. During the site reconnaissance, two cabinets of flammable material were observed in the north maintenance area. These cabinets contained engine oil, diesel, lubricant oil, and gasoline in cans and small containers. Two 55-gallon drums containing waste oil also were observed in this area along with a spill kit, and oxygen and acetylene cylinders. The second, larger, maintenance bay had several (more than 15) spent or "expired" fire extinguishers awaiting recharge or disposal.

#### **Building 22**

The first floor of the building had two flammable storage cabinets. Visual observation and an inventory of the items stored inside these cabinets at the time of the site reconnaissance was reviewed, and indicates that they contained several small containers of assorted cans of spray paint, rifle bore cleaner, glass cleaner, bleach, pine oil disinfectant, floor wax, and an assortment of other household cleaners.

#### Storage Sheds

Several storage sheds were observed on the Property during the site reconnaissance. Two metal storage sheds (6 feet by 8 feet by 8 feet tall) are located in the MEP area northeast of Building 21. CH2M HILL did not have access to the interior of the sheds in the MEP on the day of the site reconnaissance. Property personnel performed a visual inspection of these two sheds on April 12, 2007. Both sheds contained a total of four partially full 55-gallon drums containing used motor oil and antifreeze. The total quantity of used motor oil was approximately 75 gallons. The total quantity of antifreeze was between 5 and 10 gallons. Two similar storage sheds are located in the MVPA east of Building 18. In the MVPA, one shed contained oxygen gas cylinders; another, acetylene gas cylinders. A third, larger shed (6 feet by 10 feet by 17 feet) contained POL, including waste oil, antifreeze, diesel, diesel waste, and parts cleaners.

Several other buildings on the Property are and were used to store hazardous equipment and chemicals, most in de minimis quantities commensurate with use onsite. These buildings include Building 20 (an inventory of the items stored in the battery room at the time of the site reconnaissance was available and listed fifty 1-gallon acid batteries, five boxes of washer fluid each containing seven bottles, and twelve 1-gallon hydraulic oil containers were stored inside this room); Building 22 (dry transformer, POL); Building 25 (acrylic and latex-based paints, empty spill containment drums); and Building 26 (oil and enamel paints).

Other than the assumed routine household and yard use of pesticides and herbicides, no evidence of pesticide/herbicide use (empty containers, dead or stressed vegetation) was observed during the site reconnaissance.

In all areas of POL and hazardous material storage, there was no indication of improper storage that is likely to indicate a release to the environment.

# 6.3 Waste Disposal Sites

Available records indicate that the Property may have been a landfill before it was used by the U.S. Government (see Section 3.5.1 for more specific discussion). There is no evidence of onsite waste disposal, other than through storm drains (as discussed in Section 2.4.1), related to the U.S. Navy or the USAR activities on the Property. No waste disposal sites were observed during the site reconnaissance, nor were any signs observed of past onsite waste disposal (such as stressed vegetation or suspicious depressions in the landscape).

## 6.4 Pits, Sumps, Drywells, and Catch Basins

Three OWSs are located on the Property. One OWS is located south of the vehicle wash rack near the northwest corner of Building 18. The interior of the OWS could not be inspected visually because of vehicular traffic. The wash rack had a 550-gallon UST associated with it to collect waste oil that drained from the OWS. The UST was removed in September 1999 (see Section 3.4 for details). Maintenance bays within the AMSA in Building 18 drain through a series of trench drains and this OWS into a branch of the sanitary sewer. Maintenance bays within the Building 18 OMS also drain into trench drains connected through a sump to a sanitary sewer line. The wash rack near Building 18 drains through a single inlet drain into this OWS.

Another OWS is located near the southwest corner of Building 4S. The unit consists of a 6-foot by 15-foot concrete vault that contains an OWS, a holding tank, and associated piping. The OWS is connected to floor drains in the hangar (Building 4) and drains into the sanitary sewer system. A 1,000-gallon waste oil UST associated with the OWS was removed in September 1999. No recognized environmental conditions were apparent during the visual inspection of the OWS. According to personnel, trench drains in Building 4 (hangar part) drain into this OWS, which drains into the local sanitary sewer system.

A third OWS is located adjacent to the east wall of Building 21. During the site reconnaissance, facility personnel were unaware of the OWS (it was identified during a subsequent phone interview), and it was not visually inspected. The OWS receives water

from vehicle washing and maintenance activities inside Building 21 and drains into the sanitary sewer system. A small tank, about the size of a 55-gallon drum, is associated with the OWS. According to personnel, trench drains in Building 21 drain into the OWS before it drains into the local sanitary sewer system.

Several interior building areas drain directly or indirectly into the stormwater sewer system.

### 6.5 Asbestos-containing Material

An ACM survey (Environmental Enterprise Group, Inc.) in 2004 identified several buildings that contained ACM. Confirmed ACM was identified in Buildings 4, 19, 21, 22, 23, and 26, in floor tile, floor tile mastic, fire doors, piping TSI, vent ducts, and roofing mastic. The survey did not indicate the subsequent removal of pipe insulation or tiles; therefore, the ACM survey is assumed to represent current conditions. According to personnel, no abatement activities have been performed since the time of the survey.

## 6.6 PCB-containing Equipment

One pad-mounted dry transformer was located in Building 22 along the first floor north wall. Another overhead dry transformer was located close to the northeast corner of the first floor of Building 22. Another pad-mounted dry transformer was located in an enclosed area within Room 104, Building 21. An electrical room, located in the northeast corner of the first floor of Building 4S, contains dry transformers and associated equipment. All transformers observed appeared to be in good condition and had no leaks. Personnel said that none of the transformers contained PCBs.

In 1991, a transformer fell and broke, releasing 120 gallons of transformer oil containing 250 parts per million (ppm) of PCB into a storm sewer drain located east of Building 22. Surface paving materials, soils, and storm drain materials were remediated after the spill. NYSDEC indicated that the spill had been adequately remediated that same year.

### 6.7 Lead-based Paint

Because Buildings 4, 18 through 23, 25, and 26 on the Property were constructed before 1981, there is potential for LBP. At the time of the site reconnaissance, the painted surfaces at this facility were in good condition, with the exception of the southeast interior of Building 19, where chipped paint was observed on the walls and floor, along with water damage on the ceiling.

## 6.8 Radon

Based on information provided by the USACE, a radon survey was conducted at the Property from August 5-11, 1998. The testing found radon levels between 0.1 and 0.2 picoCuries per liter (pCi/L). USEPA recommends 4 pCi/L as an action level for radon abatement. The radon concern is therefore considered low for the Property.

### 6.9 Munitions and Explosives of Concern

Based on a review of available records, the site reconnaissance, and interviews with USAR Center personnel, no munitions and explosives of concern (MEC) are present on the Property, although Nike missiles reportedly were serviced and maintained in the hangar part of Building 4. The principal munitions associated with Nike sites included the missiles themselves and propellants and fuels associated with the missile components. The exact components of the warheads serviced, missile propellants, and fuels used (if any) at the Property were not detailed in the reports reviewed in preparing this ECP report.

There are no firing ranges on the Property, and there is no evidence that a firing range was ever located on the Property.

## 6.10 Radioactive Materials

Based on available records review, interviews, and the site reconnaissance, there may be monitoring equipment on the Property which contains small amounts of sealed radioactive materials. The northern, enclosed section of Building 20, where electronic equipment is stored, had a "Radioactive" sticker on the door as abundant caution. Property personnel were unsure of the exact nature of the instruments in this room; the room reportedly contained Radiac meters, which are used to monitor radiation, and reportedly contain small amounts of radium in sealed units. However, an online search (http://www.orau.org/ptp/ collection/radiac/T1B.htm) indicates these meters are similar to Geiger counters, and therefore may not have a radioactive source of their own. The Radiac meters at the Property are sent annually to the Tobyhanna Army Depot for calibration. Based on the above information, there is minimal likelihood of a release to the environment.

# 7 Review of Special Resources

# 7.1 Land Use

The building inspector for the town of Niagara has designated the area near the Property and surrounding properties as LI – Light Industrial. The Property is located in a commercial area.

# 7.2 Coastal Zone Management

NYSDEC is the lead agency for the New York 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 the U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory map, no jurisdictional wetland areas are identified on the Property. The nearest wetlands are located less than 0.125 mile north and south of the Property. Figure 9 in Appendix A is a map of wetlands in the immediate vicinity of the Property.

# 7.4 100-year Floodplain

A review of the Federal Emergency Management Agency (FEMA) digital Flood Hazard Area map indicates that the Property lies within the 100-year floodplain of Cayuga Creek (Figure 10, Appendix A). Property personnel were not aware of any flood events on the Property.

# 7.5 Natural Resources

No natural resources surveys or mapping reports that included this Property and the adjacent properties were available for review. According to the PA for the Property (Engineering Technologies Associates, 1994), sensitive environments around the Property include wetlands, waterfowl nesting and wintering areas, and habitat for four New York State–listed threatened or endangered plant species.

# 7.6 Cultural Resources

A Section 110 cultural resources survey report for the Property has not been prepared. Because most buildings on the Property are at least 50 years old, the buildings may be eligible for nomination to the National Register of Historic Places (NRHP).

# 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

<u>Hazardous Substances.</u> CERCLA hazardous substances pursuant to CERCLA §101(14) (42 United States Code 960 (14)) were used and stored at the Property.

Historical reports indicate that the Property may have been used as a landfill prior to ownership by the U.S. Government. The historical PA report (Engineering Technologies Associates, 1994) states that "no additional documents could be located to confirm or deny the potential presence of a landfill," and recommended additional records reviews and sampling to determine the potential for a landfill at the Property. During preparation of this ECP report, a review of representative historical USGS topographic maps (dating back to 1899) and aerial photographs (dating back to 1963) for the Property did not provide evidence of surficial disturbance indicative of landfilling activities.

Hazardous substance releases may have occurred as a result of historical aircraft maintenance activities and Nike missile service and maintenance in current and former hangars. No information was available to suggest potential releases from these activities have been investigated. Prior to installation of the OWSs, aircraft/vehicle service and wash water drained into storm drains. Drainage from the Building 4 hangar reportedly flowed into storm drains for several decades before installation of the OWS (1994) near Building 4. A historical PA report (Engineering Technologies Associates, 1994) recommended sediment sampling in Cayuga Creek to evaluate discharges from building floor drains into the storm sewer. No information was available to indicate that such sampling had been performed. There are three OWSs on the Property. No maintenance records were available for any of the OWSs on the Property.

In 1991, a transformer fell and broke, releasing 120 gallons of transformer oil containing 250 ppm of PCB into a storm sewer drain located east of Building 22. Surface paving materials, soils, and storm drain materials were remediated after the spill. NYSDEC indicated that the spill had been adequately remediated that same year.

**USTs and ASTs.** Available records do not indicate any USTs on the Property. One 528-gallon used oil AST is located on the Property in Building 17. During the site reconnaissance, the AST was observed adjacent to the POL shed (Building 17). Available records and information from Property personnel indicate that seven USTs and three ASTs were formerly located at the Property. All 10 tanks reportedly have been removed. Two USTs for waste oil (one 550-gallon, one 1,000-gallon) had documented spills, but both have received regulatory closure. In October 1991, 200 gallons of No. 2 fuel oil were released

while a UST was being removed. The tank contents were stored in a concrete vault, and sorbents were used to hold the spill. The sorbents were later disposed of, and no further action was required. The spill was closed in March 1992. Documented removals and closure are not available for six of the tanks.

**Non-UST/AST Petroleum Storage**. Petroleum storage other than in USTs or ASTs was observed on the Property in several buildings and storage sheds. Petroleum storage was observed in 55-gallon drums, in 5-gallon cans/containers, and in smaller containers, and no indications of any release to the environment. It is reasonable to assume that similar type non-UST/AST petroleum storage occurred historically, given the Property's history of aircraft and Nike missile servicing and maintenance.

**PCBs.** No surveys of PCB-containing equipment have been performed for the Property. One pad-mounted dry transformer is located in Building 22 along the first floor north wall. An overhead dry transformer is located close to the northeast corner of the first floor of Building 22. Another pad-mounted dry transformer is located in an enclosed area within Room 104, Building 21. An electrical room, located in the northeast corner of the first floor, Building 4S, contains dry transformers and associated equipment. All transformers observed appeared in good condition. Property personnel indicated that none of the transformers contained PCBs. A 1991 spill of PCB-containing dielectric fluid is discussed in the hazardous substances section above.

<u>ACM.</u> A 2004 ACM survey identified ACM in Buildings 4, 19, 21, 22, 23, and 26, in floor tile, floor tile mastic, fire doors, piping thermal system insulation, vent ducts, and roofing mastic. According to personnel, no abatement activities have been performed since the time of the survey. The onsite reconnaissance confirmed the presence of material that may be ACM in locations where reasonably visible.

**LBP.** No LBP surveys have been conducted at the Property. Facilities constructed before 1981 are likely to have LBP. Buildings 4, 18 through 23, 25, and 26 were constructed before 1981, and LBP may be present there. At the time of the site reconnaissance, painted surfaces were in good condition and had no chipped or peeling paint, except in the southeast interior of Building 19 where chipped paint was observed on the walls and floor, along with water damage. Buildings 17 and 24 were constructed after 1981.

**Radiological Materials**. Based on a review of available records, the site reconnaissance, and interviews with USAR Center personnel, there may be monitoring equipment on the Property, which contains small quantities of sealed radioactive material. The equipment is serviced offsite and this is minimal likelihood of a release to the environment. Based on available information, a radiological survey has not been performed for the Property.

**<u>Radon</u>**. Based on information provided by the USACE, a radon survey was conducted at the Property from August 5-11, 1998. The testing found radon levels between 0.1 and 0.2 pCi/L. USEPA recommends 4 pCi/L as an action level for radon abatement. The radon concern is therefore considered low for the Property.

<u>MEC.</u> Based on a review of available records, the site reconnaissance, and interviews with USAR Center personnel, no MEC is present on the Property.

<u>Surrounding Properties.</u> Potential environmental sites of concern located within the 1-mile ASTM search radius from the Property were evaluated through database review and site

reconnaissance. None of the adjacent properties evaluated exhibited documented environmental conditions that had or have the potential to adversely affect environmental conditions at the Property. According to Property personnel, one UST is located on the adjacent west property. This property had a second UST that was removed at an unknown date. It is not known whether either of these USTs have leaked.

<u>Wetlands and Floodplain</u>. According to online USFWS National Wetlands Inventory maps and visual observations, no wetlands were observed or appear to be present on the Property. The adjacent property to the south (south of Porter Road) is classified as freshwater forested/shrub wetland, and the adjacent property to the north (NFTA) is classified as freshwater emergent wetland.

According to the FEMA Flood Insurance Rate Map effective date June 15, 1994, the Property is located within the 100-year floodplain for Cayuga Creek. Property personnel were unaware of any flood events on the Property.

<u>Threatened and Endangered Species</u>. No natural resources surveys or mapping reports that included this Property and the adjacent properties were available for review. According to the PA report for the Property (Engineering Technologies Associates, 1994), however, sensitive environments around the Property include wetlands, waterfowl nesting and wintering areas, and habitat for four New York State-listed threatened or endangered plant species.

<u>Archaeological and Historical Resources</u>. Because all buildings on the Property were constructed in 1956, they may be eligible for listing on the NRHP.

### 8.2 Environmental Condition of Property

The findings presented in this ECP report were based on reasonably available environmental information; interviews with site and state and local personnel; and review of previous environmental studies, federal and state databases, 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 as Type 7. This classification does not include categorizing the property based on de minimis conditions that generally do not present material risk of harm to the public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. The property type is based on the following major findings:

• Reports of a former landfill on the Property. A PA quoting previous studies at the Property states that the Property is known to have been a landfill. The PA cites other intrusive investigations on the Property, performed for other purposes, which did not demonstrate evidence of a landfill. The PA, however, states that "no additional documents could be located to confirm or deny the potential presence of a landfill" and recommended additional records reviews and sampling on the Property with the

objective of determining whether a landfill was previously located at the Property. Based on information available at the time of preparation of this report, no such sampling has been performed.

- According to Property personnel, Building 4 was formerly used to service Nike missiles having conventional warheads in support of other Nike missile batteries in New York. Several published reports on the Nike missile program indicate there is the potential for environmental effects related to Nike missile operations and maintenance. The floor drains in Building 4 and other buildings flowed to the storm sewer for several decades prior to 1994. A historical PA report (Engineering Technologies Associates, 1994) recommended sediment sampling in Cayuga Creek to evaluate discharges from building floor drains into the storm sewer. No information was available to indicate that such sampling had been performed
- Three aircraft maintenance hangars: two former wooden hangars located on the east side of the Property and one hangar within Building 4. According to the PA report, operations at the Building 4 hangar included daily inspections, engine repair, and aircraft modifications. As noted, Building 4 also was used to service Nike missiles from batteries in the New York area. The hangars were in use as early as the 1930s, and no detailed information is available on storage and disposal of hazardous substances that were likely used. Furthermore, drainage from the hangar reportedly flowed into storm drains for several decades before installation of the OWS near Building 4 in 1994. A historical PA report (Engineering Technologies Associates, 1994) recommended sediment sampling in Cayuga Creek to evaluate discharges from building floor drains into the storm sewer. No information was available to indicate that such sampling had been performed.

# 9 References

#### Persons Contacted

- Jon Pashong, Fort Drum Department of Public Works, Maintenance Mechanic, 315-523-0016, August 16 and 17, 2006.
- Patrick Patterson, Fort Drum Department of Public Works, Maintenance Mechanic, 716-297-7725, x 229, August 29, 2006; September 1, 6, 19; October 2, 2006; January 8 and 22, 2007; April 12, 2007.
- Charlie Page, AMSA 76, Supervisor, 716-297-7200, August 16 and 17, 2006.
- Joe D'Amico, AMSA 76 and 277th Quartermaster Company, Supply Technician, 716-297-7200, August 16 and 17, 2006.
- Glenn Seidel, AMSA 76 and 277th Quartermaster Company, Safety Officer, 716-297-7200, August 16 and 17, 2006.
- Sal Calandra, New York State Department of Environmental Conservation, Region 9, Buffalo, 716-851-7220, January 22 and 23, 2007.

#### **Resources Consulted**

- Aerial photographs provided by BBL, Inc., dated 1962, 1978, and 1995
- National Wild and Scenic Rivers, http://www.nps.gov/rivers/wildriverslist.html#ny
- USEPA Map of Radon Zones, http://www.epa.gov/radon/zonemap.html
- New York Coastal Zone Management, http://www.nyswaterfronts.com/index.asp
- FEMA Flood Hazard Insurance Map, http://msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView
- Federal regulatory databases:

NPL: National Priority List
Last EDR Contact: 05/05/2006
Proposed NPL: Proposed National Priority List Sites
Last EDR Contact: 05/05/2006
DELISTED NPL: National Priority List Deletions
Last EDR Contact: 05/05/2006
NPL RECOVERY: Federal Superfund Liens
Last EDR Contact: 05/23/2006
CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System
Last EDR Contact: 06/22/2006
CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Last EDR Contact: 06/23/2006 **CORRACTS:** Corrective Action Report Last EDR Contact: 05/21/2006 RCRA: Resource Conservation and Recovery Act Information Last EDR Contact: 06/28/2006 **ERNS:** Emergency Response Notification System Last EDR Contact: 04/26/2006 HMIRS: Hazardous Materials Information Reporting System Last EDR Contact: 04/14/2006 **US ENG CONTROLS:** Engineering Controls Sites List Last EDR Contact: 07/03/2006 **US INST CONTROL:** Sites with Institutional Controls Last EDR Contact: 07/03/2006 **DOD:** Department of Defense Sites Last EDR Contact: 05/12/2006 **FUDS:** Formerly Used Defense Sites Last EDR Contact: 07/03/2006 **US BROWNFIELDS:** A Listing of Brownfields Sites Last EDR Contact: 06/12/2006 **CONSENT:** Superfund (CERCLA) Consent Decrees Last EDR Contact: 03/13/2006 **UMTRA:** Uranium Mill Tailings Sites Last EDR Contact: 06/21/2006 **ODI:** Open Dump Inventory Last EDR Contact: 06/09/2004 Last EDR Contact: 06/22/2006 TSCA: Toxic Substances Control Act Last EDR Contact: 04/12/2006 FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) Last EDR Contact: 06/19/2006 FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) Last EDR Contact: 06/19/2006 SSTS: Section 7 Tracking Systems Last EDR Contact: 03/06/2006 **ICIS:** Integrated Compliance Information System Last EDR Contact: 04/11/2006 **PADS:** PCB Activity Database System Last EDR Contact: 06/28/2006 MLTS: Material Licensing Tracking System Last EDR Contact: 07/03/2006 **MINES:** Mines Master Index File Last EDR Contact: 06/28/2006 FINDS: Facility Index System/Facility Registry System Last EDR Contact: 04/03/2006 **RAATS:** RCRA Administrative Action Tracking System

Last EDR Contact: 06/05/2006 **BRS:** Biennial Reporting System Last EDR Contact: 06/30/2006

• State and local records:

**HSWDS:** Hazardous Substance Waste Disposal Site Inventory Last EDR Contact: 05/30/2006 SHWS: Inactive Hazardous Waste Disposal Sites in New York State Last EDR Contact: 06/15/2006 **DEL SHWS:** Delisted Registry Sites Last EDR Contact: 06/15/2006 SWF/LF: Facility Register Last EDR Contact: 05/01/2006 SWRCY: Registered Recycling Facility List Last EDR Contact: 05/01/2006 SWTIRE: Registered Waste Tire Storage & Facility List Last EDR Contact: 05/19/2006 LTANKS: Spills Information Database Last EDR Contact: 06/22/2006 HIST LTANKS: Listing of Leaking Storage Tanks Last EDR Contact: 07/07/2005 **UST:** Petroleum Bulk Storage (PBS) Database Last EDR Contact: 06/02/2006 **CBS UST:** Chemical Bulk Storage Database **MOSF UST:** Major Oil Storage Facilities Database Last EDR Contact: 07/25/2005 **AST:** Petroleum Bulk Storage Last EDR Contact: 06/02/2006 **CBS AST:** Chemical Bulk Storage Database Last EDR Contact: 07/25/2005 MOSF AST: Major Oil Storage Facilities Database Last EDR Contact: 07/25/2005 NY MANIFEST: Facility and Manifest Data Last EDR Contact: 05/31/2006 **SPILLS:** Spills Information Database Last EDR Contact: 06/22/2006 **HIST SPILLS:** SPILLS Database Last EDR Contact: 07/07/2005 **ENG CONTROLS:** Registry of Engineering Controls Last EDR Contact: 06/15/2006 **INST CONTROL:** Registry of Institutional Controls Last EDR Contact: 06/15/2006 **VCP:** Voluntary Cleanup Agreements Last EDR Contact: 06/15/2006 **DRYCLEANERS:** Registered Drycleaners Last EDR Contact: 05/21/2004 **BROWNFIELDS:** Brownfield Site List

Last EDR Contact: 06/15/2006 SPDES: State Pollutant Discharge Elimination System Last EDR Contact: 05/09/2006 AIRS: Air Emissions Data Telephone: 518-402-8452 TRIBAL RECORDS INDIAN RESERV: Indian Reservations Last EDR Contact: 05/12/2006 EDR PROPRIETARY RECORDS Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations

#### **Agencies Contacted**

• Town of Niagara, New York

#### Works Cited

Bowne AE&T Group. 2006. Stormwater Pollution Prevention Plan Update, Niagara Falls USARC – NY046 (Niagara Falls, NY). February.

Engineering Technologies Associates, Inc. 1994. *Final Preliminary Assessment of Niagara Falls Armed Forces Reserve Center*. February.

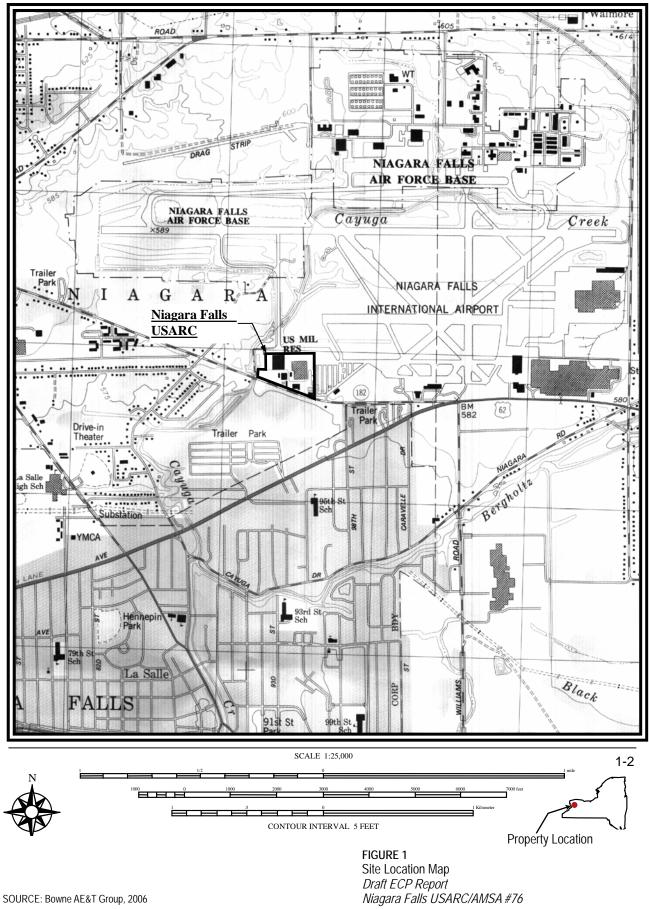
Environmental Enterprise Group, Inc. 2004. U.S. Armed Forces Reserve Center – Niagara Falls (NY046), Asbestos Inspection Report. December.

Law Engineering Testing Company. 1986. *Final Report, Investigation of Former Nike Missile Sites for Potential Toxic and Hazardous Waste Contamination*. March.

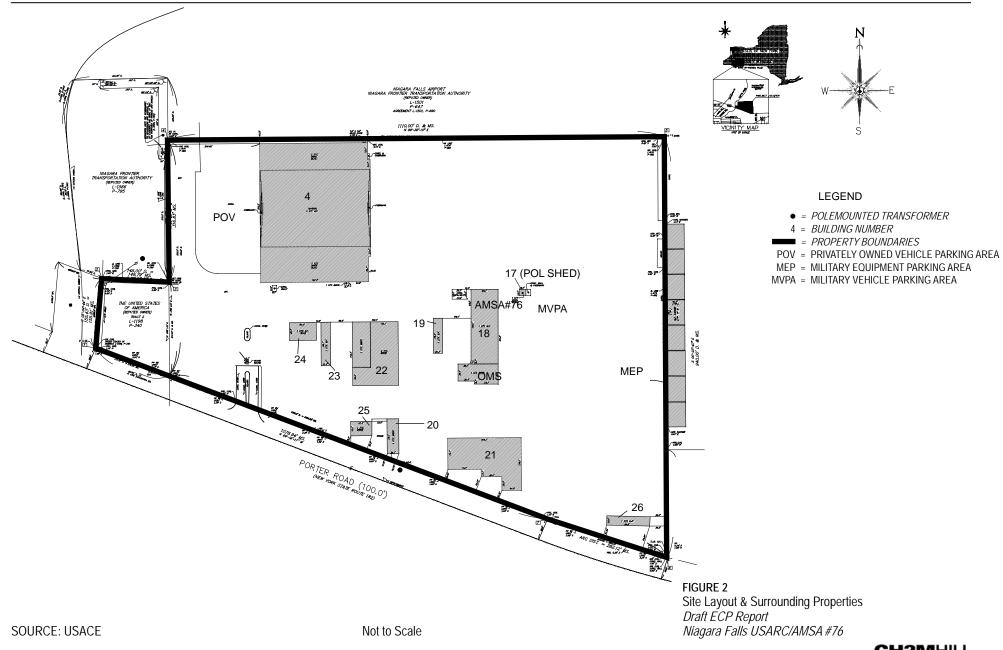
Sverdrup Environmental, Inc. 1999. *Closure Report, Underground Storage Tank Removals, Niagara Falls United States Army Reserve Center,* 9400 Porter Road, Niagara Falls, NY 14304. December.

U.S. Army Corps of Engineers (USACE) HTRW-CX. 2003. *Final Report, Nike Missile Battery Environmental Conditions Assessment Guide, Defense Environmental Restoration Program Formerly Used Defense Sites (DERP-FUDS).* July.

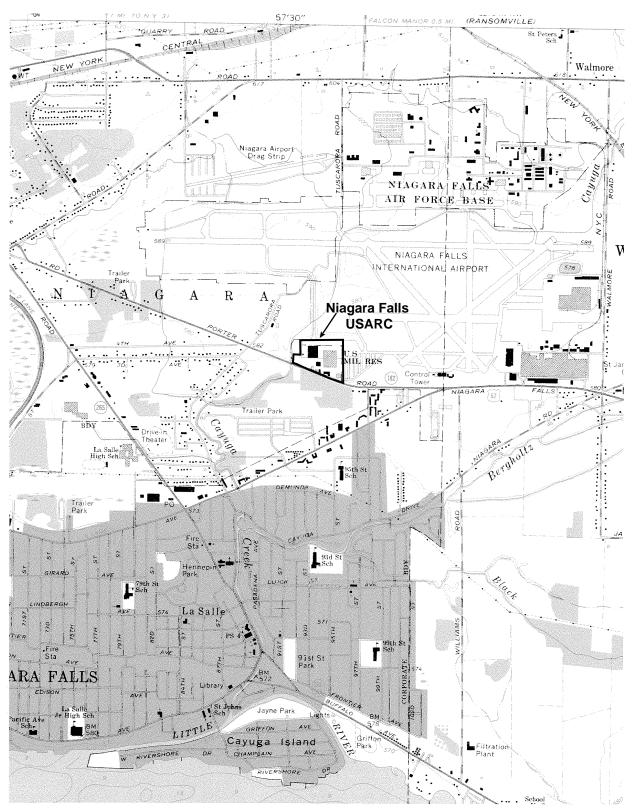
# Appendix A Figures







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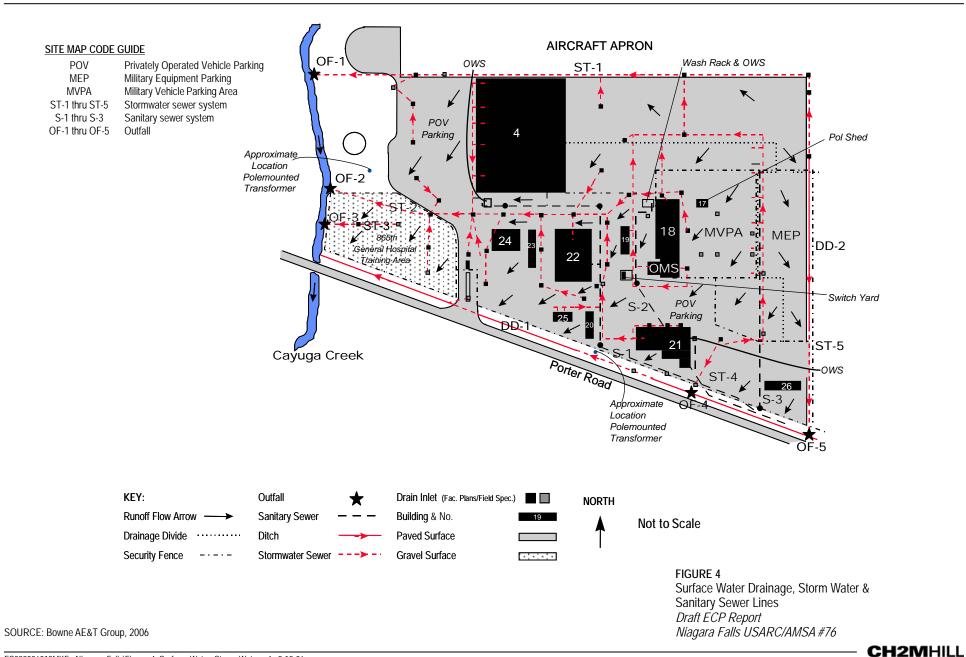
N ^ EDR INQUIRY# 1714247.28 TARGET QUAD: TONAWANDAWEST YEAR: 1965 Series: 7.5' Scale: 1:24,000

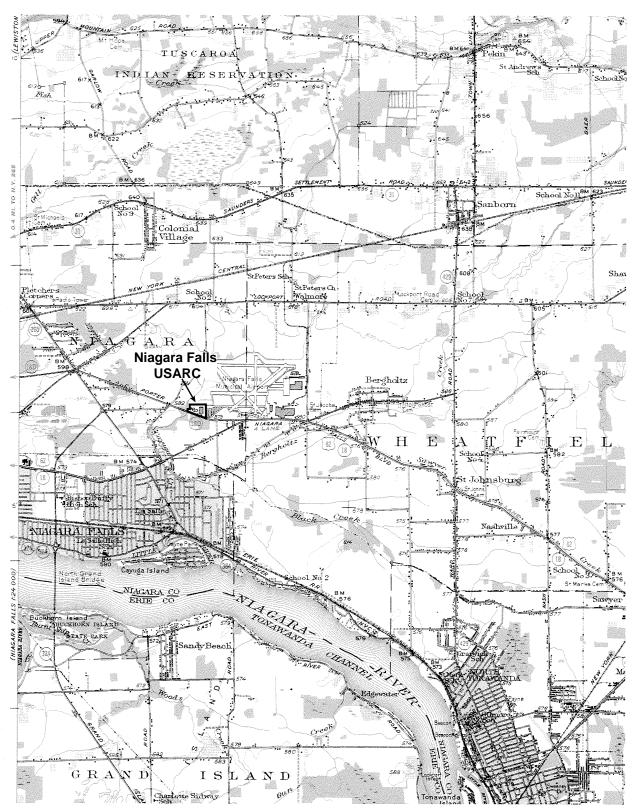
FIGURE 3 1965 Topographic Map Draft ECP Report Niagara Falls USARC/AMSA #76

SOURCE: EDR, 2006

ES082006013MKE Niagara\_Falls\Figure\_3\_1965\_Topographic\_Map\_v6 9-27-06 cae







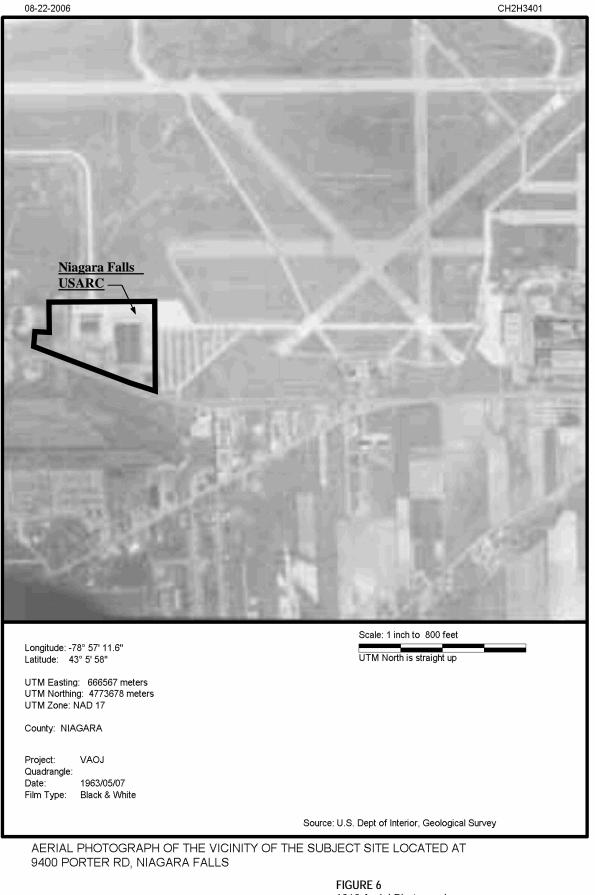
N ^ EDR INQUIRY# 1714247.28 TARGET QUAD: TONAWANDA YEAR: 1948 Series: 15' Scale: 1:62,500

FIGURE 5 1948 Topographic Map Draft ECP Report Niagara Falls USARC/AMSA #76

SOURCE: EDR, 2006

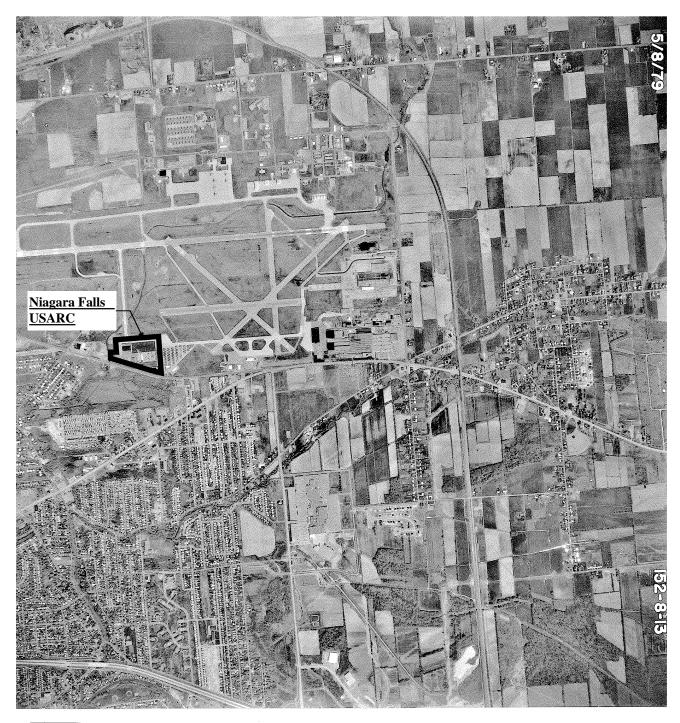
ES082006013MKE Niagara\_Falls\Figure\_5\_1948\_Topographic\_Map\_v5 9-26-06 cae

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1963 Aerial Photograph Draft ECP Report Niagara Falls USARC/AMSA #76

SOURCE: BBL Environmental, 2006



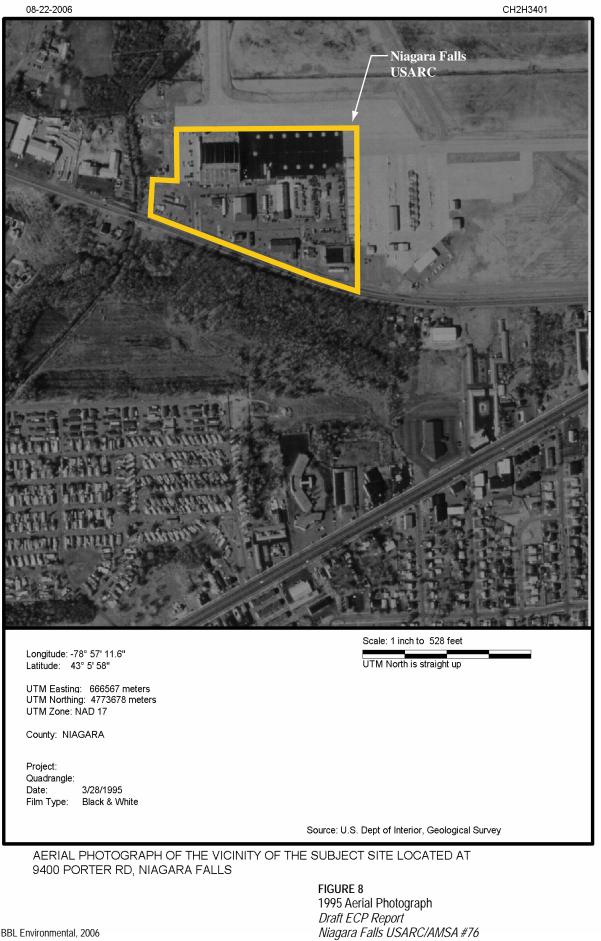
PHOTOGRAPHY BY
n.l
MeINTOSH & MeINTOSH, INC.
P. O. BOX 490
LOCKPORT, N. Y. 14094
(716) 433-2535; (716) 625-8360
FLOWN 5.8.79
PHOTO NO. 152.08.13
JOB NO 3178
APPROXIMATE SCALE 1'2 2000

North

FIGURE 7 1979 Aerial Photograph Draft ECP Report Niagara Falls USARC/AMSA #76

ES082006013MKE Niagara\_Falls\Figure\_7\_1979\_Aerial\_Photograph\_v4 9-26-06 cae





SOURCE: BBL Environmental, 2006

ES082006013MKE Niagara\_Falls\Figure\_8\_1995\_Aerial\_Photograph\_v6 9-26-06 cae

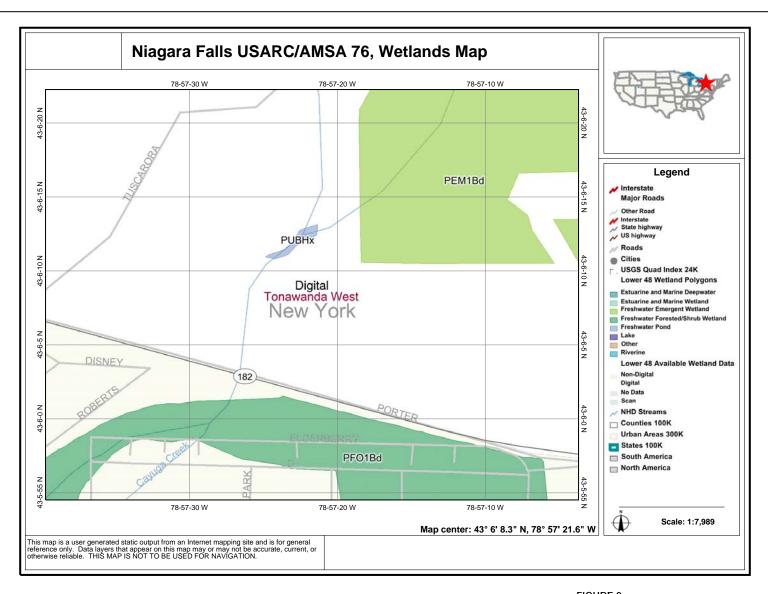


FIGURE 9 National Wetlands Inventory Map Draft ECP Report Niagara Falls USARC/AMSA #76

#### SOURCE: NRCS, 2006

ES082006013MKE Niagara\_Falls\Figure\_9\_Wetlands\_Inventory\_v4 9-6-06 cae

CH2MHILL

#### KEY TO MAP

500-Year Flood Boundary 100-Year Flood Boundary Zone Designations*	ZONE B ZONE A1		
100-Year Flood Boundary 500-Year Flood Boundary	ZONE A5 ZONE B		
Base Flood Elevation Line With Elevation In Feet**	513		
Base Flood Elevation in Feet Where Uniform Within Zone**	(EL 987)		
Elevation Reference Mark	RM7×		
Zone D Boundary			
River Mile	•M1.5		

\*\*Referenced to the National Geodetic Vertical Datum of 1929

#### \*EXPLANATION OF ZONE DESIGNATIONS

#### ZONE EXPLANATION

- A Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
- A0 Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
- AH Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
- A1-A30 Areas of 100-year flood; base flood elevations and flood hazard factors determined.
- A99 Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
- B Areas between limits of the 100-year flood and 500year flood; or certain areas subject to 100-year flood ing with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading)
- C Areas of minimal flooding. (No shading)
- D Areas of undetermined, but possible, flood hazards.
- V Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
- V1-V30 Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors

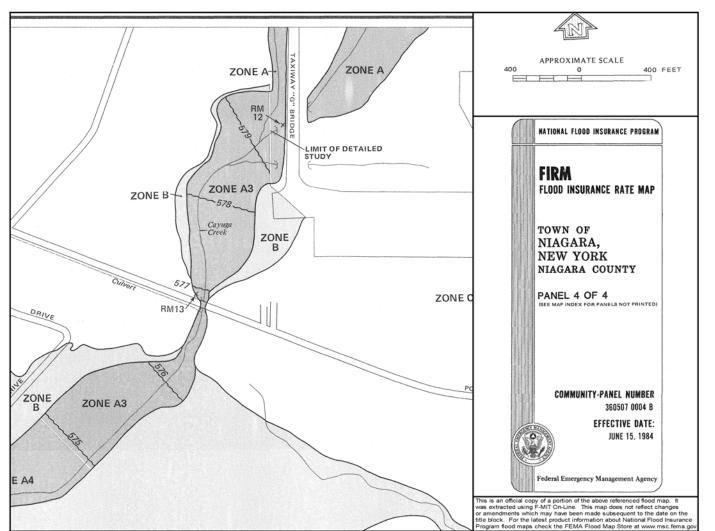


FIGURE 10 FEMA Flood Plain Map Draft ECP Report Niagara Falls USARC/AMSA #76



Appendix B Site Reconnaissance Photographs

## APPENDIX B Site Reconnaissance Photographs



1. View south from near south border of Property. Entrance to Property from Porter Road. Note wooded adjacent property south.



2. View southwest, from southeast portion of Property. Porter Road and adjacent property south (beyond fence).



3. View north from near southeast corner of Property. Adjacent property east, Niagara Falls Transit Authority (airport).



4. View west from southwest portion of Property. Adjacent property west; top of mound corresponds to reported location of old, offsite, reportedly unused fuel oil UST.



5. View northwest from northeast portion of Property. Niagara Falls Transit Area (airport) property in background.



*6. View northeast from northeast portion of Property. Structures on adjacent property east beyond Property fence.* 



7. View north/down, from Porter Road outside southwest Property boundary. Cayuga Creek and vegetated bank.



8. View east. Building 4, hangar. Building 4S to right and Building 4N to left.



9. View north, oil/water separator (OWS) pad south of Building 4S.



10. View northwest, vehicle wash rack and OWS.



11. View north, Building 4S, first floor, unused air compressor. Note oil staining and oil container on floor/pad. Potential lead-based paint on wall.



12. View west, Battery Room in Building 18, AMSA portion. Note charred wood bench and corrosion deposits on concrete floor.



13. Waste oil shed, MEP Area. Two drums on right are empty.



14. POL storage, Building 18. Empty 5-gallon containers.



15. Storage cabinet, Building 18.



16. Storage cabinet, Building 18.



17. Parts room, Building 18.

Appendix C Property Acquisition Documents and Chain of Title Report



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

#### HISTORICAL CHAIN OF TITLE REPORT

#### NIAGARA FALLS USARC/AMSA 76 NY 9400 PORTER ROAD NIAGARA FALLS, NEW YORK

Submitted to:

#### ENVIRONMENTAL DATA RESOURCES, INC. C/O CH2M HILL 1569 Stampmill Way

Lawrenceville, Georgia 30043 (770) 338-1589

**Attention: Mary Jacques** 

Project No. N06-5633

Wednesday, September 13, 2006

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

UNITED STATES OF AMERICA

The following is the current property legal description:

Being that parcel or tract of land, situated and lying in Lot 6, Township 13, Range 9 of the Holland Land Purchase, in the Town and County of Niagara, State of New York

Assessor's Parcel No: 146.14-1-8

### **<u>1. HISTORICAL CHAIN OF TITLE</u>**

### 1. DEED:

2.

3.

4.

5.

6.

DE	CD.	
	RECORDED:	08-29-1933
	GRANTOR:	Joseph F. Conway
	GRANTEE:	Francis H. McDonald
	<b>INSTRUMENT:</b>	Liber 592, Pg 241
EX	ECUTOR'S DEED:	
	RECORDED:	05-05-1954
	GRANTOR:	Joseph J. P. McDonald and Margaret C. McDonald,
		Executors of James A. McDonald (heir of Francis H.
		McDonald)
	GRANTEE:	Ivan Lozina
	INSTRUMENT:	Liber 1135, Pg 382
		2.001 1100, 1 5 0 0 2
EX	ECUTOR'S DEED:	
	RECORDED:	05-05-1954
	GRANTOR:	Rose McCaffrey McDonald, Executrix of Joseph A.
		McDonald (heir of Francis H. McDonald)
	GRANTEE:	Ivan Lozina
	INSTRUMENT:	Liber 1135, Pg 394
WA	RRANTY DEED:	
	RECORDED:	05-05-1954
	GRANTOR:	Hugh McDonald (heir of Francis H. McDonald)
	GRANTEE:	Ivan Lozina
	INSTRUMENT:	Liber 1135, Pg 401
DE	ED:	
	RECORDED:	05-05-1954
	GRANTOR:	Ivan Lozina
	GRANTEE:	John A. Juran & Kathryn Juron, his wife
	<b>INSTRUMENT:</b>	Liber 1135, Pg 386
DE	ED:	
	<b>RECORDED</b> :	05-05-1954
	GRANTOR:	Ivan Lozina
	GRANTEE:	Stanley Lozina
	<b>INSTRUMENT:</b>	Liber 1135, Pg 390

#### 7. WARRANTY DEED:

<b>RECORDED</b> :	10-28-1955
GRANTOR:	Ivan Lozina; Stanley Lozina; and John A. Juran &
	Kathryn Juron, his wife
GRANTEE:	The United States of America
<b>INSTRUMENT:</b>	Liber 1198, Pg 340

### 2. LEASES AND MISCELLANEOUS

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

#### **3. LIMITATION**

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

Property Acquisition Documents and a Chain of Title/Deed information were not available at the time of report preparation. This information will be updated when it becomes available from the 77<sup>th</sup> RRC.

Appendix D Previous Environmental Site Assessment Reports



Center

FINAL

Preliminary Assessment

0î

Niagara Falls Armed Forces Reserve Center

Contract Number LACA31-93-P-1517

February 1094

Mepared by:

Engineering Tet inclogies Associates, Inc. 165 S. Unica, Bb/d. #710 Lakewolle, CO 80228

a. T

3458 Efficou Center Drive #101 Efficott City, MD 21043

For the National Guard Bureau and U.S. Army Reserve

AEC Form 45, 1 Feb 93 replaces THAMA Form 45 which is obsolete.

REPORT DOCUMENT	ATION PAGE	Form Approved OMB No. 0704-0188		
Public reporting burden for this information is estimated to sverage gulering and maintaining the data needed, and completing and rev collection of unformation, including suggestions for reducing this b Arlington, VA 22207-4302, and to the Office of Management and	I hour per response, including the time for reviewing lewing the collection of information. Send comments invariant for the sense and the sense of the sense.	is for information Operations and Reports, 1270 to 1000 to	Davis Highway, Suite (2014.	
Arlington, VA 222034,0_, and to the output to the second		3. REPORT TYPE AND DATES COVER FINAL		
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<ul> <li>6. AUTHOR(S)</li> <li>Mr. K. Walters</li> <li>Mr. Robert Payne</li> <li>Mr. Edward Miles</li> <li>7. PERFORMING ORGANIZATION NAME</li> </ul>	(S) AND ADDRESS(ES)	8. PERFORMING ORGANIZATION RE	EPORT NUMBER	
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### EXECUTIVE SUMMARY

Engineering Technologies Associates, Inc. (ETA) performed a Preliminary Assessment (PA) of the Niagara Falls Armed Forces Reserve Center (NFAFRC), including a site visit and review of all available relevant documents. No environmental sampling was conducted as part of this investigation.

NFARFC has been owned by the U.S. Government since 1939; it has been operated by the U.S. Army since the early 1960's as a reserve training installation. Several tenants, including the New York Army National Guard (NYARNG), occupy part of the installation. Principal operations conducted at the site include aircraft and vehicle maintenance, and reserve personnel training.

An unreferenced document located in the files reviewed during the site visit indicated that the site was constructed on a former landfill. No other documentation was available to confirm or refute that contention. The possible presence of a landfill in this region is significant, due to the degree and nature of industrial development nearby, including a number of chemical manufacturing facilities. Numerous landfills containing toxic substances have already been identified in the area, including the Love Canal Superfund site.

The principal pathway of potential contamination from the site is via floor drains and the storm sewer system, entering the surface water system at Cayuga Creek. Spills of hazardous materials can potentially enter floor drains, and from there would become point source pollutant discharges into the Creek. No groundwater, soil, or air contamination is suspected at the installation.

Sensitive environments that could be affected by contaminants entering the surface water system from the NFAFRC includes wetlands, waterfowl nesting and wintering areas, and habitat for four New York State-listed threatened or endangered plant species. In addition, a State Park and a National Park are within the 15-mile downstream study area.

### 1.0 INTRODUCTION

ETA under Contract No. DACA31-93-P-1517 with the U.S. Army Environmental Center, performed a PA of the NFAFRC in the Town of Niagara, New York, in response to NFAFRC being placed on the Federal Agency Hazardous Waste Compliance Docket as listed in the Federal Register dated 5 February 1994. This PA conforms to the requirements of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1981 and the Superfund Amendments and Re-authorization Act (SARA) of 1986.

The purpose of this investigation was to review all available information regarding past practices for hazardous waste storage, handling, and disposal at the site, and to assimilate that information into a report. A Hazard Ranking System (HRS) score will be computed by the appropriate regulatory agency, based on information contained and summarized in this PA report. Because this investigation included no environmental sampling, analytical data are limited; however, all available information was reviewed, and a site visit was conducted. Available information regarding petroleum products is included in the report, although petroleum products are not regulated under the jurisdiction of CERCLA.

The site visit was conducted between 18 October and 22 October 1993. On-site personnel included: Major Covino, Ms. Haslbeck, Mr. Walters, and Ms. McGowan. Representatives from the installation included Pat Paterson and John Rodgers.

The Potential Hazardous Waste Site Preliminary Assessment Forms were used to collect and assemble information for the PA. The completed forms are included as Appendix A.

## 2.0 SITE DESCRIPTION, OPERATIONAL HISTORY, AND WASTE CHARACTERISTICS

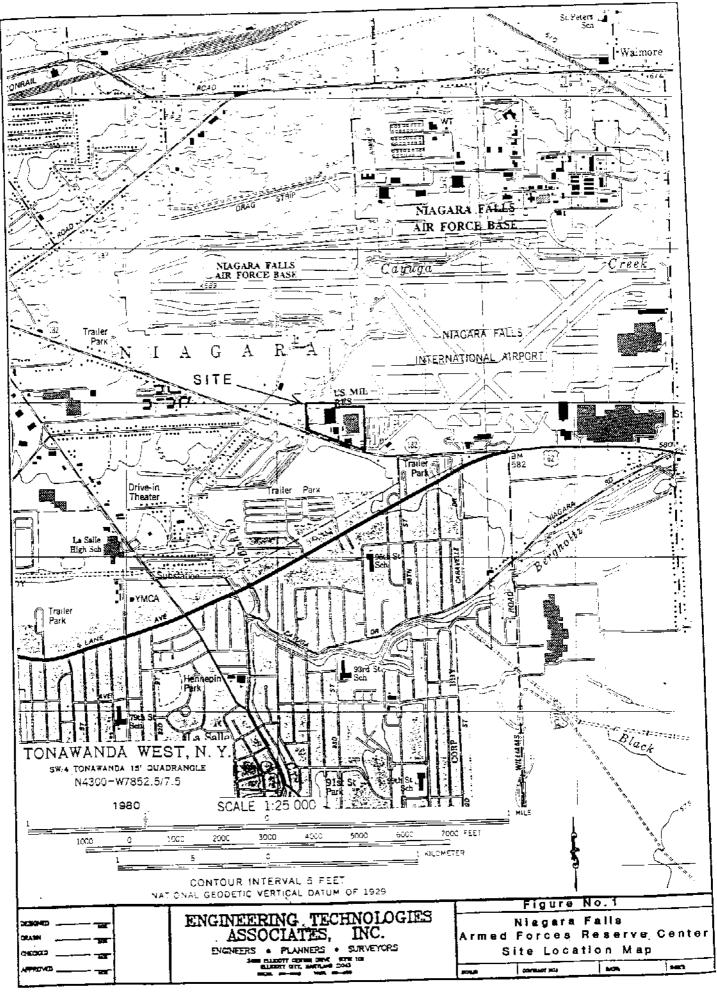
#### 2.1 Location

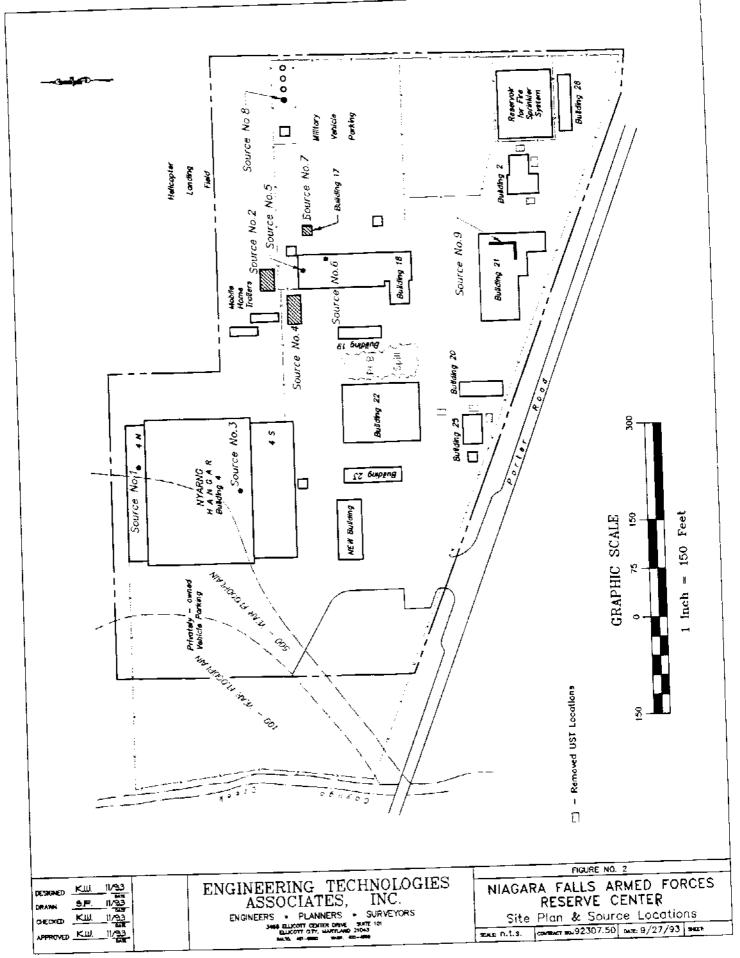
The NFAFRC is located at 9400 Porter Road, Niagara Falls County, Town of Niagara, NY 14304-0306 (see Photo No. 1). Figure 1 shows the location on a United States Geological Survey (USGS) 7.5 minute topographic map. The installation's coordinates are 43 degrees 6 minutes North latitude and 79 degrees 4 minutes West longitude (USATHAMA, 1989).

#### 2.2 Site Description

The installation comprises approximately 20 acres, bordered by Porter Road on the south, and by Cayuga Creek on the west. Property boundaries on the north and east are shown on the site map (see Figure No. 2). According to Fort Drum personnel, the installation is owned by the United States Army Corps of Engineers, New York District, and is a sub-installation of Fort Drum (Tim Alexander, 1993). Site development includes 13 buildings and numerous small storage sheds and containers. The New York Army National Guard (NYARNG) is a tenant occupying a helicopter hangar, which represents approximately one-third of the site area, but about 50 percent of the developed floor space.

The NFAFRC is situated in a primarily industrial area, adjacent to the Niagara Falls Air Force Base and the Niagara Falls International Airport (see Figure No. 1). The installation lies in an area that has been extensively studied, due to the existence of numerous abandoned hazardous waste sites. The most notorious of these is the Love Canal Superfund site, less than one mile from the NFAFRC. During the site visit, on-site personnel also noted a groundwater remediation project under construction at a manufacturing plant approximately 0.5 miles east of the installation.





### 2.3 Operational History and Waste Characteristics

### 2.3.1 Property History

The NFAFRC site was originally developed in 1939 by the U.S. Navy as an airstation. A new hangar was constructed in 1957. About 1962, the land was conveyed to the U.S. Army as a sub-installation of Fort Drum, NY, and NYARNG has been a tenant at the installation since then.

An "Operational Necessity Statement" and "Economic Justification Summary" document (see Appendix B) was located which was apparently prepared in support of a funding request for replacement of water lines at NFAFRC. This document, although unreferenced, states that the site is "known to have been a landfill prior to the original construction of the Naval Air Station". The document describes "constant deterioration of the existing water lines from corrosive soils", and references soil chemical analyses that showed "high sulfate concentrations and low resistivity leading to an anticipated corrosion activity of SEVERE magnitude" (emphasis transcribed as in original). Representatives from Fort Drum indicated that during remediation of a spill of PCBcontaining oil in 1991, non-uniform soils were observed. A search of records revealed a corrosion survey conducted in June, 1983 (Professional Services Group, 1983). The study concluded that water line failures may have been due to mechanical reasons, and that corrosion was principally due to "plug type graphitization resulting from the non-uniform backfill". No additional documents could be located to confirm or deny the potential presence of a landfill.

Several excavation operations have occurred since Army occupancy of the installation. None of the excavations for building foundations, UST removals, the PCB spill cleanup or water line installations have revealed any evidence of this landfill (Alexander, 1993).

The facility receives its potable water supply from the City of Niagara Falls. No documentation was located to show that any wells have ever been completed on the property. Sanitary waste is transported off-site under contract through Fort Drum, and hazardous waste

(paint, solvents, automotive and aviation fluids, etc.) is stored on-site pending consignment to a hazardous waste disposal contractor. According to site personnel, no landfills/waste disposal areas are known to have been operated at the site during the Army's tenure. The storm sewer system on the installation exits to Cayuga Creek. Buildings are heated by hot water heat, fueled by natural gas with a fuel oil backup system. The boiler is located in Building 4-S.

A spill of PCB containing oil occurred at the site in 1991. The spill happened during removal of a PCB contaminated transformer (250 ppm concentration of PCBs). The transformer fell and broke over a storm sewer drain opening in the parking lot east of Building 22 (see Figure No. 2). An estimated 120 gallons of PCB oil was spilled on the pavement and into the drain. Surface paving materials, soils, and storm drain materials were remediated after the spill. During the course of spill remediation, approximately 1,000 tons of paving materials and soils were removed and consigned to a hazardous waste disposal contractor. On 31 October 1991, the New York State Department of Environmental Conservation (NYDEC) indicated that their review of data from the cleanup indicated that NYDEC requirements had been met (NYDEC, 1991). Installation personnel report that no PCB-containing equipment remains on-site. Photo No. 2 shows the re-paved site of the 1991 PCB oil spill.

#### 2.3.2 NYARNG Operations

NYARNG employs about 35 full-time workers. On weekends (except holiday weekends), approximately 250 reservists are on the national guard portion of the site for training maneuvers.

The NYARNG houses and maintains one aviation company comprising 21 UH-1 helicopters in Building No. 4, also referred to as the Hangar (see Figure No. 2 and Photo No. 3). Previously, two aviation companies were housed and maintained at the Hangar. The Hangar has a cement floor (see Photo No. 3), with a floor drain passing through an oil/water separator and exiting to the storm sewer system. Maintenance operations conducted here include preventative daily inspections, aircraft modifications, and engine repairs, with all operations conducted inside the building. Reportedly. no large-scale painting or paint stripping are

conducted at the Hangar. Parts are cleaned mostly in "Safety-Kleen" closed systems, with waste solvent transported off-site for disposal. The Safety-Kleen procedure was instituted about two years ago. Prior to that, PD-680 (Stoddard solvent) was the principal solvent used for parts cleaning. A small quantity of methyl ethyl ketone (MEK) is still used occasionally to wipe parts or equipment. All operations are conducted using drip pans to collect dripping/leaking/spilled fluids, and spent rags are collected in a barrel for proper off-site disposal.

Aircraft cleaning operations are conducted either inside the Hangar, or outside on an asphalt-covered cement pad. Washwater drains to floor drains, which exit to the storm sewer system. Cleaning solutions are primarily soap/detergent concentrates (ZEP-Z-C), with small quantities of MEK and PD-680 used sparingly in small areas where oil or other localized product needs to be removed. Site personnel report that pressurized solvents are not currently used, nor were they used in the past, for purposes of aircraft cleaning, due to the solvents' flammability and associated fire hazards.

Building 4 also houses a sheet metal and an electrical shop. Neither of these have floor drains. Ni-Cad batteries are built and recharged in one area of the building (see Photo No. 4). The floor drain from this shop reportedly enters an acid-neutralizing sump, but the sump has never been used to the knowledge of site personnel. Past and current practice is to return all batteries wet (undrained), for recharge or disposal.

Wastes generated on the NYARNG portion of the facility are disposed under a separate contract from the remainder of the site. A 180-day holding area stores waste oils pending consignment to the hazardous waste contractor. A maximum of four 55-gallon drums are on-site at a time, holding mostly used oil and some JP4 (jet fuel) (see Photo No. 5). A collection barrel for spent Ni-Cad battery cells is picked up by the hazardous waste disposal contractor when filled. No pesticides are currently used on site; however, herbicides were used to control weeds along fence lines until summer of 1993, when their use was discontinued. Stored chemicals observed by on-site personnel during the visit to Building 4 included: ZEP-Z-C concentrate (used for washing); acetone; PD-680; lubricating and penetrating oils; hydraulic fluids; 50 to 60

spray cans of paint; and about 10 gallons of liquid paint. In addition, a drum labelled "Isopropyl Alcohol" was noted in a dirt area outside the hazardous waste holding shed. The drum is situated horizontally in a cradle, and has a pour spout. Alcohol from the drum is reportedly used occasionally to de-ice aircraft windows.

A vehicle storage area was observed on land adjacent to Building 4, land which is reportedly leased from the Niagara Falls Transportation Authority (the Airport) (see Photo No. 6). Vehicles stored on this site include three fueler trucks, several unused Army convoy vehicles, a decrepit bus, and other miscellaneous discarded vehicles and equipment.

### 2.3.3 Army Reserve Operations

The Army Reserve has an Area Maintenance Support Activity (AMSA) which performs vehicle maintenance on both tracked and wheeled vehicles. All vehicles serviced here belong to reserve units within the 77th Army Reserve Command (ARCOM). The Army Reserve employs about 65 on-site workers (non-resident), and about 1,350 reservists train at the facility on weekends.

A vehicle wash rack at the northwest corner of Building 18 drains through a waste oil separator sump, from which the water fraction exits to Cayuga Creek as does any surface runoff. A 500-gallon fiberglass tank was installed about 4 years ago to hold waste oils from the separator. Prior to installation of the oil/water separator and waste oil collection tank in 1989, vehicles were reportedly washed on the pavement near the AMSA shop, which drains into Cayuga Creek. Photo No. 7 shows the vehicle wash rack outside Building 18.

Building 18 is divided into two sections: a vehicle maintenance shop, and a motor pool used by reservists. The maintenance shop is housed in the quonset portion of Building 18, and the motor pool in the brick-construction portion.

Operations at the Building 18 vehicle maintenance shop include repairs and maintenance on vehicles, support equipment, electrical generators, and weapons. Approximately eight vehicles per month are serviced at the shop. All parts cleaning is conducted using Safety-Kleen systems. A floor drain in the shop exits to a "receiver" outside the building, then to the storm sewer system.

All hazardous waste products from operations in the Building 18 vehicle maintenance shop are drummed and contract disposed. Chemicals observed in this building during the site visit include detergents, antifreeze (ethylene glycol), battery acid, packaged (new) magnesium batteries, diesel fuel, gasoline, and engine oil. The shop reportedly generates about one 55gallon drum per year of waste antifreeze. In addition, spent oil filters and asbestos brake shoes are stored prior to consignment to a hazardous waste contractor. The shop also inspects gas masks used off-site, and replaces filters as necessary. Used gas mask filters are collected and consigned. Photo No. 8 shows stored chemicals and waste products in the shop.

During the site visit to Building 18, a battery charger room was observed with a floor drain, but site personnel were unable to supply information clearly regarding the location of the drain outfall and/or hook-up to the sewer system. Sulfuric acid is stored in a locker, for filling depleted batteries. Photo No. 8 shows the battery charging room in Building 18.

The motor pool (brick-construction) portion of Building 18 was noted to contain a number of storage lockers for flammables, containing mostly oil, grease cartridges, ether bottles, antifreeze, and spray paint. In addition, a number of empty 5-gallon fuel cans were noted.

Building 17 is a new (constructed 1993) storage area for hazardous materials. During the site visit, on-site personnel observed stored products, including aircraft lubricating fluids, brake fluid, antifreeze, alcohol, and methanol, and a 55-gallon drum of kerosene. Outside Building 17 is a waste oil storage tank, and two containers (not presently in use) that can hold two 55-gallon drums each (see Photo No. 9). The waste storage area is surrounded by an approximately two-foot containment wall. A drain near the waste oil storage tank was observed, but again, site personnel had no information regarding exit point or systems potentially connected to the drain.

Building 21 is operated by the Directorate of Engineering and Housing (DEH). This directorate is responsible for utilities maintenance and repair; snow removal; greenskceping; and routine maintenance on three pick up trucks, one dump truck, and several loaders. Building 21 houses a vehicle mechanics shop, a welding shop, and a metal working shop. Approximately 30 to 40 gallons per year of waste oil are generated in the mechanics shop, all of which is consigned to a hazardous waste disposal contractor. A large open floor drain with a sump was observed, but site personnel report that it has never been used. Routine painting, both interior and exterior, of walls, pipes, and equipment is coordinated from this building. In general, only latex-base paint is used on interior surfaces. Alkyd (oil-base) paint is used on exterior surfaces for durability. In the past, VMP naphtha had been used as a paint thinner, but none was observed on-site during the visit.

Asbestos containing material (ACM) has been mostly removed from the site. Some probable ACM remains, mostly as pipe insulation at change-of-direction elbows, or around valves. Specifically, ACM in Building 21 has been abated (removed).

At the northeast boundary of the Army Reserve portion of the site, on-site personnel observed a waste storage area. This area is used for storage of used but empty drums, spent batteries awaiting disposal, and scrap metal. Drums labelled for antifreeze, contaminated fuel, waste diesel fuel, brake fluid, and asbestos were noted. The spent battery holding area (covered with a tarp) is shown in Photo No. 10, and the scrap metal and empty drums are shown in Photo No. 11. Also near this area is a storage area containing discarded office furniture (desks, shelves, chairs, cabinets, etc.)

#### 2.3.4 Other Tenants

Other tenants on the installation include the following additional Reserve components:

338th General Hospital, 77th ARCOM365th Evacuation Hospital, 77th ARCOM277th Quartermaster Company, 98th DivisionFacility Engineering Division, Fort Drum

#### 2.3.5 CERCLA Sources

Under CERCLA, the EPA defines "source" as, "an area where a hazardous substance may have been deposited, stored, disposed, or placed". Also, soil that may have become contaminated as a result of hazardous substance migration is considered a source. In general, however, the volumes of air, ground water, surface water, and stream sediments that may have become contaminated through migration are not considered sources. Constituents that are defined as hazardous substances, pollutants, or contaminants are listed in CERCLA Sections 101(14) and 101(33) (EPA, 1991). CERCLA, under the petroleum exclusion clause, eliminates petroleum products (crude oil or any fraction thereof) from consideration as contamination sources.

Nine potential CERCLA sources have been identified on the installation, based on the results of the site visit, and from the 1989 USATHAMA Property Report (USATHAMA, 1989).

### NYARNG SOURCES

Source No. 1 Building 4 Battery Room Floor Drain

This potential source consists of a floor drain with acid neutralizing sump located in a room where battery maintenance occurs. Site representatives reported that the drain had never

been used and current practices return all batteries for recharge or disposal. Waste quantities for this source are unknown.

Source No. 2 Hazardous Waste Storage Area

This source consists of the hazardous waste storage building for the NYARNG. This building is constructed of steel and has a secondary containment feature in it's floor. Because the NYARNG is considered a Small Quantity Generator (SQG), they are allowed to store hazardous wastes up to 180 days. Typical wastes stored in the building are: oil, batteries, and jet fuel. Also included in this source is a partially filled drum of isopropyl alcohol observed adjacent to the storage area. During the inspection, on-site personnel observed approximately 440 gallons of hazardous waste being stored in the building and adjacent drum.

Source No. 3 Building 4 Chemical and Paint Storage

During the inspection, on-site personnel observed both chemical and paint storage lockers which are used to store these substances. These lockers are made of metal and marked **FLAMMABLE**. Approximately 50 gallons of these substances were observed being stored in this source.

### ARMY RESERVE SOURCES

Source No. 4 AMSA Wash Rack

This source is located at the northwest corner of Building No. 18. This washrack is used to wash both tracked and wheeled vehicles. Overspray, from washing operations, is circulated through an oil/water separator and the water portion is routed to the storm sewer system. A 500-gallon fiberglass tank was installed approximately four years ago to hold waste oils from the separator. Waste quantities associated with this source are unknown.

### Source No. 5 AMSA Hazardous Waste Storage Area

Within the vehicle repair shop is a hazardous waste storage area where wastes are stored prior to being transported off-site. The wastes accumulated in this area include antifreeze, battery acid, contaminated diesel fuel, contaminated gasoline, and engine oil. AMSA representatives reported that approximately one 55-gallon drum of hazardous waste is shipped off-site each year.

### Source No. 6 AMSA Battery Room Storage

This source is a room within the AMSA vehicle repair shop where batteries are maintained. Battery maintenance includes filling new batteries with acid and water, and replacing battery cells as necessary. A metal locker within the room is used to store the acid and approximately 50 gallons of acid were observed by on-site personnel.

### Source No. 7 AMSA Building 17 Chemical Storage Area

This source is a newly constructed storage area for hazardous substances. On-site personnel observed stored products including lubricating fluids, brake fluids, antifreeze, alcohol, methanol, and a 55 gallon drum of kerosene. A total of approximately 200 gallons of liquids were observed.

Source No. 8 Outside Storage Area

This source lies along the northeastern boundary of the installation and includes the outside storage of unusable batteries, partially empty drums and empty drums. There is no secondary containment for any of these items and the contents of some of the drums was uncertain. On-site representatives of NFAFRC completed an inventory and reported a total of 385 gallons which were stored in the partially filled drums and batteries (Paterson, 1994).

### DEH SOURCES

Source No. 9 DEH Floor Drain and Sump

This source lies within the maintenance area of Building 21, the building used by the DEH. It consists of a floor drain with a sump that runs the length of the maintenance area and is susceptible to either petroleum or hazardous substance migration from maintenance operations. Waste quantities associated with this source are unknown.

### 2.3.6 Non-CERCLA Sources

The USATHAMA Property Report (USATHAMA, 1989) identified a number of potential sources associated with petroleum-based products.

A total of six UST have been removed from the installation in the past several years, with their locations shown on Figure No. 2. None of these removals required any further investigation.

### 3.0 GROUNDWATER PATHWAY

### 3.1 Soils Information and Hydrogeology

Soils at the NFAFRC are of two types: the Lakemont silty clay loam (85 percent of the area on site); and the Fonda mucky silt loam (15 percent of the area on site)(Soil Conservation Service, 1972). Both types are described as fine to moderately fine-textured, having low permeability, and having prolonged high water table at 0 to 0.5 feet below ground surface. Due to high clay content, these soils are subject to ponding. Permeability rates of the surface soil range from 0.2 to 0.6 inches/hour.

The complex geology of upstate New York is described in detail in Van Diver, 1985, and the hydrogeology of the Niagara Falls area forms the basis for a groundwater model described in USGS, 1993. The following description of geologic and hydrogeologic setting is taken primarily from these two sources.

The Niagara Falls area is underlain by glacial sediments consisting primarily of till and lacustrine silt and clay. The thickness of glacial deposits ranges from less than 5 feet near the Niagara Escarpment to more than 80 feet along Tonawanda Creek. These deposits act as a confining unit that limits the flow of water to and from the more permeable weathered bedrock below. Groundwater flow in these deposits is generally downward in recharge areas near topographic highs, and upward in discharge areas near streams and in other low-lying areas.

The glacial sediments are underlain by about 170 feet of virtually undeformed dolomites and limestones of the Lockport Group of the Niagaran Series (Middle Silurian). The Lockport Group is in turn underlain by the Clinton Group, which consists of about 100 feet of shale and limestone, and by the Medina Group, which consists of about 110 feet of sandstone and shale. All of the bedrock units crop out along the Niagara Escarpment (Van Diver, 1985). The hydraulic properties of the Lockport Group are related primarily to secondary permeability caused by fractures. These openings have been widened by chemical dissolution in areas where groundwater circulates through the bedrock. The principal water-bearing zones in the Lockport Group are the weathered bedrock surface and horizontal-fracture zones near stratigraphic contacts. The rock matrix transmits only negligible amounts of groundwater because the primary porosity is very low. Horizontal hydraulic conductivity of the weathered bedrock was estimated by the USGS at 40 feet/day.

Groundwater flows through the Lockport Group from topographic highs near the Niagara Escarpment north toward the escarpment, and south and west toward low-lying areas near the Niagara River and outcrop areas along the Niagara River Gorge. Recharge enters the weathered bedrock as infiltration from the overlying glacial sediments and enters the horizontal-fracture zones where they intersect the bedrock surface and high-angle fractures. Recharge also enters the Lockport as infiltration from the Niagara River in areas where the bedrock crops out in the river bottom. Pumping from the Lockport Group by an industrial production well increases the rate of infiltration from the Niagara River near the city of Niagara Falls. Manmade structures increase recharge to the bedrock in other areas: for example, the New York Power Authority reservoir is surrounded by a dike that maintains a water level about 40 feet above natural land surface, and leakage from the municipal water supply and unlined storm sewers in the city of Niagara Falls probably contribute recharge to the weathered bedrock. Where bedrock is exposed at land surface, groundwater discharges directly to stream channels and springs; it also discharges directly to land surface along the Niagara Escarpment and Niagara River Gorge, where the horizontal-fracture zones crop out.

In summary, soils at NFAFRC have low permeabilities, prolonged high water tables, and are subject to ponding. NFAFRC is underlain by glacial sediments ranging from 5 to 80 feet, which restrict groundwater flow to and from the underlying bedrock. The bedrock is composed of three distinct formations, with each formation consisting of various combinations of sandstones, shales, limestones, and dolomites ranging in thickness from 100 to 170 feet. Groundwater flow through the uppermost bedrock formation is due to fractures. Horizontal flow

is from topographical high areas north toward the Niagara Escarpment, and south and west toward low-lying areas near the Niagara River. Groundwater enters the bedrock through infiltration from overlying soils, from direct bedrock contact with the Niagara River, and from man-made sources such as leaky pipes and sewers. Groundwater discharges directly into creeks and streams where bedrock is exposed at land surfaces, and to land surfaces along the Niagara Escarpment and Niagara River Gorge.

#### 3.2 Groundwater Targets

Due to availability of plentiful surface water supply from the Niagara River, very few groundwater uses were identified within the four-mile study area of the NFAFRC. The USGS (1993) reports that one industrial production well takes groundwater for process operations. A few homeowners are reported to have shallow wells used only for lawn and garden irrigation.

The Tuscarora Indian School, located on the extreme northern margin of the four-mile study area, reportedly supplies drinking water from one well. The well taps the Lockport Dolomite. No information was located regarding the yield or completion depth of the well. According to a hydrogeologic report (Environmental Products & Services, Inc., 1989) the Lockport Group at this location could be expected to yield 10 to 50 gallons per minute, depending on the degree of fracturing and void space. Reported groundwater flow direction at this site is to the south, with groundwater discharge to Gill Creek and its wetlands; however, groundwater flow rate and direction may be influenced by seasonal recharge variations.

No sources discovered as part of this investigation are likely to cause groundwater contamination, however, Source 8, the Outside Storage Area represents the highest potential because of the lack of secondary containment. If a release was to occur in this area the most likely constituent would be battery acid.

### 3.3 Groundwater Conclusions

No release of hazardous substances to the aquifer has been documented at NFAFRC. Low permeability soils and surficial glacial material act as an moderate aquitard, preventing downward migration of contaminants. However, high water table conditions and hydraulic connection between groundwater and surface water at Cayuga Creek create a pathway for movement of contamination. Groundwater targets in the four-mile study area include only one well known to be used for a drinking water supply, and that well is at the extreme upgradient limit of the four-mile study area.

Although no documentation was found showing contaminant release to the groundwater system from the NFAFRC site, regional groundwater contamination from other hazardous waste sites may be present. Because the site is located in a heavily industrialized area with numerous documented contaminated groundwater plumes, presence of groundwater contamination at and near the installation is possible, and perhaps even likely. However, an investigation of regional groundwater contamination is beyond the scope of this report.

### 4.0 SURFACE WATER PATHWAY

#### 4.1 Hydrologic Setting

The NFAFRC is situated in the Erie-Ontario Lowlands physiographic province. The region is characterized by relatively flat topography, dissected by east-west trending escarpments. The site is located about five miles south of the Niagara Escarpment, and about two miles north of the Niagara River, within the municipality of the Town of Niagara. Topography of the site is nearly level, with surface and storm sewer drainage to Cayuga Creek, which flows less than 100 feet from the western boundary. The Cayuga Creek is an intermittent tributary of the Niagara River and it's 500-year and 100-year floodplains intersect the installation, as shown on Figure 2. The drainage area of the sources on the installation is less than 50 acres.

The average flow rate of the Niagara River, measured above and below hydroelectric power intakes and returns, is between 202,000 and 207,000 cubic feet per second.

#### 4.2 Surface Water Targets

The City of Niagara Falls municipal water system intake is located in the Niagara River off Buckhorn Island, about three miles southwest of the site. In addition, the Town of Wheatfield and Niagara County have intakes for municipal water supply in the same location. Reportedly, 100 percent of rural and municipal drinking water supplies in the study area come from the Niagara River.

The Niagara River is a cold water fishery, used for recreational fishing; however, no food production rates are available (Roblee, 1993).

No information was located regarding the presence of federally-listed threatened or endangered species in the study area, however, the 15-mile downstream study area includes habitat of four New York state-listed threatened or endangered plant species: tall tick clover (*Desmodium Glabellum*); Smooth Cliff Brake (*Pellaea Glabella*); Fringed Gentian (*Gentianopsis Procera*); and White Camas (*Zigadenus Elegans ssp Glaucus*). The reach also includes nesting grounds for terns, cormorants, and herring gulls, and wintering areas for a number of waterfowl.

The Probable Point of Entry (PPE) of contamination from the installation is into Cayuga Creek, adjacent to the western boundary. From the PPE, the surface water pathway continues approximately two miles downstream to the confluence of Cayuga Creek and the Niagara River. Approximately 0.5 miles of palustrine, forested, temporary, partially drained wetlands have been mapped along the two mile reach of Cayuga Creek above the Niagara River confluence.

The surface water pathway study area continues downstream another thirteen miles, bordered by a riverine, upper perennial, open water permanent wetland. Additional sensitive environments within the 15-mile study area include the Whirlpool State Park and Niagara Falls National Park.

### 4.3 Surface Water Conclusions

The review of documents and site visit indicated the potential for past releases of contaminants to the surface water system, although current practices have reduced that potential. On-site floor drains connect to the storm sewer drainage system, and exit directly to Cayuga Creek (Paterson, 1992). Although oil/water separators are present in several critical areas, many hazardous materials stored and used on-site (e.g., solvents, acids, isopropyl alcohol) would not be isolated by these devices, and any entry of these substances to the floor drain/storm sewer system would become a point source discharge to Cayuga Creek.

The 1991 PCB containing oil spill was remediated to the satisfaction of the NYDEC, and is therefore a qualifying removal action. However, no documents were located to indicate that the sediments of Cayuga Creek were sampled subsequent to the spill.

Because the volumetric flow rate of the Niagara River is so great, contaminants potentially entering the Niagara River system from NFAFRC would quickly become very dilute.

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## 5.0 SOIL EXPOSURE AND AIR PATHWAYS

### 5.1 Physical Conditions

Site personnel at NFAFRC estimate that less than five percent of the 20-acre site is vegetation, bare soil, or gravel. The remaining 95 percent is concrete. asphalt, or building "footprint". All site operations are conducted in buildings or on asphalt/concrete surfaces. No record or report of past incidents (fires, spill, vehicle/aircraft accidents) was identified. A number of volatile substances are used in small quantities, including parts cleaners, isopropyl alcohol, paints and paint thinner, and acetone.

There are no identified Soil Exposure sources and the potential Air Pathway releases are limited to volitization from closed containers in hazardous waste storage areas.

### 5.2 Soil and Air Targets

About 100 personnel work on-site Monday through Friday, and about 1,600 Reservists are on-site on most weekends and are therefore considered transient personnel. Table 1 presents resident population counts at specified distances from the site (CLARITAS, 1993).

Radius from Site	Population	
On site	372	
0.25 to 0.50 mile	1,677	
0.50 to 1.0 mile	6,934	
1.0 to 2.0 mile	20,609	
2.0 to 3.0 mile	31,974	
3.0 to 4.0 mile	52,179	
Total	113,745	

Table 1. NFAFRC Population Count

## 5.3 Soil Exposure and Air Pathway Conclusions

The soil exposure pathway poses minimal threat at NFAFRC, due to the nonexistence of sources (i.e. Hazardous storage area, Hazardous product storage area) and the high percentage of developed/paved land area at the site. Releases to the air are not suspected because of limited uses of volatile substances at the site, and because no on-site disposal of volatile materials occurs. For these reasons, no air sampling data was available to be reviewed or is believed to exist. This precludes comparisons to NAAQS or other CERCLA standards.

# 6.0 SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

ETA performed a PA of the NFAFRC, including a site visit and a review of available relevant documents. No environmental sampling was conducted.

NFAFRC has been owned by the U.S. Government since 1939; it has been operated by the U.S. Army since the early 1960's as a reserve training installation. Several tenants, including the New York Army National Guard, and Army Reserve units occupy part of the installation. Principal operations conducted at the site include aircraft and vehicle maintenance, and reserve personnel training.

An unreferenced document located in files reviewed during the site visit (Appendix B), indicated that the site was constructed on a former landfill. No other documentation was available to confirm or refute that contention. The possible presence of a landfill in this region is significant, due to the degree and nature of industrial development nearby, including a number of chemical manufacturing facilities. Numerous landfills containing toxic substances have already been identified in the area, including the Love Canal Superfund site.

The principal pathway of potential contamination from the site is via floor drains which lead to the storm sewer system, entering the surface water system at Cayuga Creek. Spills of hazardous substances can potentially enter floor drains, and from there would become point source pollutant discharges into the Creek. No groundwater, soil, or air contamination is suspected at the installation.

Sensitive environments that could be affected by contaminants entering the surface water system from the NFAFRC include wetlands, waterfowl nesting and wintering areas, and habitat for four New York State-listed threatened or endangered plant species. In addition, a State Park and a National Park are within the 15-mile downstream study area. Although it is possible that contaminants could be released to the environment from the site, quantities of hazardous substances used and stored on-site are relatively small; furthermore, volumetric flow rate of the Niagara River is very large, which would result in contaminant concentrations becoming very dilute.

Pursuant to ETA's findings, during the site visit and document review, the following recommendations for further study at the site are proposed:

- 1. Review of chain-of-title, aerial photographs and other property records to trace land use prior to U.S. Government acquisition. This investigation would help confirm or deny the presence of a landfill beneath the installation.
- 2. Install at least a sufficient number of sample borings on the installation to attempt to confirm or refute the existence of subsurface landfill materials, allegedly placed prior to site acquisition by the U.S. Government.
- 3. Collection and analysis of stream sediment samples at the three outfall points of the storm sewer system, along Cayuga Creek. At a minimum, the samples should be analyzed for metals, PCBs, chlorinated solvents, and pesticides.
- 4. Prepare a comprehensive drawing of the floor drain and sewer system.

## 7.0 REFERENCES

Alexander, Tim. 1993. Personal communication during site visit, October 1993.

CLARITAS, 1993. Population report. Ithaca, NY.

- Environmental Products and Services, Inc. 1989. Hydrogeologic Assessment Report, Tuscarora School, Tuscarora Indian Reservation, Niagara County, New York. Buffalo, NY.
- New York State Department of Environmental Conservation. 1991. Correspondence from Michael J. Hinton, Environmental Engineer to Commander, Fort Drum. Letter dated October 31, 1991.

Paterson, Pat. 1993. Personal communication during site visit. October, 1993.

- Professional Services Group, Inc. 1983. Final Report of Corrosion Survey at Site of U.S. Army Support Center, Niagara Falls, New York. Detroit, Michigan.
- Roblee, Ken. 1993. Personal communication and excerpts from New York Natural Heritage Program Notebook. Senior Wildlife Biologist, Region 9, Buffalo, New York.
- Soil Conservation Service. 1972. Soil Survey of Niagara County, New York. US Department of Agriculture, in Cooperation with Cornell University Agricultural Experiment Station.

USATHAMA. 1989. Property Report, USARC Niagara Falls, 6/2/1989.

US Geological Survey. 1993. Simulated Three-Dimensional Ground-Water Flow in the Lockport Group, a Fractured Dolomite Aquifer Near Niagara Falls, New York. Water-Resources Investigations Report 92-4189, Ithaca, New York. Van Diver, Bradford B. 1985. Roadside Geology of New York. Mountain Press Publishing Company, Missoula, Montana.

# APPENDIX A

Potential Hazardous Waste Site Preliminary Assessment Form

W	otential Hazardous aste Site			Ident	Identification			
Pr	elim	liminary Assessment Form			State: NY	CERCLIS	Number:	
1. General Site Information			CERCLI	CERCLIS Discovery Date:				
Name	nform.	ation						
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10wn of Niagara			Suic;		<del>z∍ c.∞.</del> 14304	Caunty	Co. Code:	
Latinude:	Longa			timate Area o	_	Niagar		Cong. Dist:
<u>43° 6′</u> -r	N <u>79</u>	<u>4</u> , <u>-</u> W	_	0Acr		Active	Status of Sile: Active C Not Specified C Inactive C NA (GW physic, etc.)	
2. Owner/Operato	r Inda			Squ	ure Pt	<b></b>		, caz.)
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		Street Address:						
City: New York								
State: Zp Code: Telephon	Zp Code: Telephone:		City: Fort Drum					
Type of Ownership	(212)	264-0142	State: NY	<b>Z</b> ≆ C∞ 1.3602-	е: 509 Тсієрь		772-9143	
	C County C Municip		How	Enitially Ideas C Citizen Co	ified:			
	C Not Spo C Other	≈ ≂i/ied	C PA Petition Computer C PA Petition C Incidental C State/Local Program					
C Indian			C Suite Local Program C Not Specified C RCRA/CERCLA Notification C Other					
. Site Evaluator Inf	Ormat		<u> </u>					
me of Evaluation Kim Walte		· · · · · · · · · · · · · · · · · · ·						
nccowan		Agency/Organization: ETA			Date Propa 1072	5/93		<u></u>
ne Address: 165 S. Unio	n Blvo	d, Ste 710		City: La	kewood			
elen Shannon	2			Street Add	EPA 1	Region ]	Suite: CO	
New York			Jacob I	K. Javi	ts Fed.	Bldg.	ł	
			State: Telephone: NY (212) 264-6664					
Site Disposition (fo	r EPA	use only)						<u></u> ∦
genery Response/Removal sment Recommendation; [] Yes	CERC	LIS Recommendation: Higher Priorice St	<u>-</u> -	Signature:				
C No	1 6	Lower Priority SI						1
Date:		RCRA Other	1	Name (types)				lí

Type of Site Operations (check all 244 apply):		Potential Hazard Preliminary Asse	ssment Form -		CERCLIS Number
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	D No If Yes, Enter Primary Target	Population	>1 - 2 Miles	
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## APPENDIX B

Operational Necessity Statement for Maintenance and Repair Project, 1987

27 SEP 1991 13 AUG 1987

25659

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ARMY

Fort Drum New York

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M&R Water Fipe Line Potable

REQUIREMENT: This project is required to insure a reliable water service is available which can support the fire protection systems and domestic water requirements of the Reserve Center including the aircraft handar. If this project is not approved, random piping failures will continue to occur creating a potential health problem as a result of contamination of the domestic water source. In addition, fire protection system will be inoperative during these random failures jeopardizing the safety of those personnel working in fire protected areas. High value items such as aircraft and maintenance equipment will be left unprotected, increasing the possibility of their loss due to the lack of early fire suppression capabilities.

> JAMES R. ELLIS Major General, USA Commanding

		INDEX: 1	
ESTIMATED CONSTRUCTION START: ESTIMATED MIDPOINT OF CONSTRUCTION: ESTIMATED CONSTRUCTION COMPLETION:	APR 1992 Oct 1992 APR 1993	INDEX: 1 INDEX: 1	

EY 92 PROGRAM

DATE 13 AUG 1987 PROJECT NUMBER: 25659 Water Pipe Line Potable FROJECT TITLE: Fort Drum INSTALLATION: New York LOCATION:

SECTION 7 - GENERAL

The original facilities at the Niadara Fails Reserve Center were constructed 7A GENERAL in 1939 as a Naval Air Station. A new hangar was built in 1937. The majority of the buildings were acquired by the Army during the 1950's.

OPERATIONAL NECESSITY STATEMENT

FOR

Maintenance and Repair Project 1987

Department of the Army

Military Department or Agency:

Fort Drum, New York

Installation:

Niagara Falls Water Lines. 1-392

Project Description:

⊈700**,**000

Cost:

This project is necessary due to the constant deterioration of the existing water lines from corrosive soils. These water lines provide water to the entire Niagara Falls Reserve Center for domestic water and fire protection. Consideration of Alternatives are discussed in DD Form 1391, Section 11, Economic Analysis. Breakdowns continue to occur in other sections of the pipe. The use of PVC pipe will resist reaction with the corrosive soils and result in a more reliable system.

DATE 15 AUG 1987 FY 92 PROGRAM PROJECT NUMBER: 26659 PROJECT TITLE: Water Pipe Line Potable INSTALLATION: Fort Drum LOCATION: New York

## SECTION 7 - GENERAL

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### 7A GEMERAL

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Sec. 1

Responsible Official:

/S/ Harold W. Waoner, Jr. Harold W. Wagner, Jr. LTC, EN Directorate, Engineering & Housing Date: 23 Sep 8

FY 92 PROGRAM

DATE 13 AUG 1987 PROJECT NUMBER: PROJECT TITLE: INSTALLATION: LOCATION:	EY 52 PROBREM 26659 Water Fipe Line Potable Fort Drum New York	
SECTION 8 - PRES	ENT ACCOMMODATIONS AND DISPOSITIONS	

88 FRESENT ACCOMMODATIONS AND DISPOSITIONS

N/A

San Share and share a

FY 92 PROGRAM

DATE 13 AUG 1987 26659 PROJECT NUMBER: Water Fipe Line Fotable PROJECT TITLE: Fort Drum INSTALLATION: New York LOCATION:

SECTION 10 - ANALYSIS OF DEFICIENCIES

The existing metal piping has failed at random, causing disruption of the fire protection service and the domestic water service. The failures are causes mainly by corresion and occasional suspected high transient pressures. Future failures may occur at any time. Existing piping is 30 to 45 years old and 95% is cast iron with the remaining being steel piping. The site is knows to have been a landfill prior to the original construction of the Nava. Air Station; therefore the soil characteristics are not uniform. has seen determined that some areas are highly corrosive, causing considerable damate to the metal piping systems. During a survey of the systems in 1982 it was determined that the surge tank has been full of water and the jockey pume was not operating. Any time a low pressure was encountered in the tire system the 2.000 gpm booster pump would activate. It is believed that or some occasions this shocked the system leading to the transient pressures. The 1980 survey of the piping system used the standard vibration testing equipment. The testing indicated three active leaks localized to the

Extreme east end of property. Northeast of reservoir. following areas:

- North Central. East of Building No. 4. 1.
- Extreme Northwest on U.S. Army property. Ξ.
- . .

FY 92 FROGRAM

DATE 13 AUG 1987 PROJECT NUMBER: 25659 Water Fipe Line Potable PROJECT TITLE: Fort Drum INSTALLATION: New York LOCATION:

SECTION 11 - ECONOMIC ANALYSIS

11D ECONOMIC JUSTIFICATION SUMMARY

Decision Analysis:

a. Background:

The original facility was built as a Naval Air Station in 1939 on a site previously used as a landfill. For this reason the soil characteristics are not uniform and contribute to some areas being highly corrosive. The facility consists of approximately a dozen structures, including a central A majority of the structures are built with cavity wall construction using concrete masonry units and face brick. The original hangar was demolished and a new hangar built in the mid 1950's.

b. Site Investigations:

In 1982 the underground piping system was surveyed for leaks using standard vibration testing equipment. This testing indicated three active leaks localized to the following areas: 1. Extreme east end of the property - northeast of reservoir.

- 2. North central east of building number 4. (new hangar bics).
  - 3, Extreme northwest on U.S. Army property.

It was also determined that the surce tark had been full of water and the Jockey pump was not operating. Any time low pressure was encountered in the fire system the 2,000 GPM booster pump would activate. It was believed that on some occasions this shocked the system leading to high pressure transients.

c. Condition of Existing Facilities:

The corrosive nature of the existing soil eventually caused the random failure of portions of the existing underground piping for the domestic water, fire protection and steam and concensate lines. The history of the failures were not chronicled in the early years. The deterioration has culminated in an ever increasing number of serious failures which leave the center with a reduction or complete absence of domestic water and/or fire protection coverage.

The entire northeast quadrant has been capped off over the years. Unis area

## EY 92 FROGRAM

DATE 13 AUG 1987 PROJECT NUMBER: 26659 PROJECT TITLE: Water Pipe Line Potable INSTALLATION: Fort Drum LOCATION: New York

eerves no buildings now (it served the demolished hangar) and therefore the basic policy had been to cap off the lines at known locations rather than to dig up concrete and aircraft pavement in search of leaks. The capping off occurred in two or three phases as leaks became evident. In 1985 a decentralized heating project was implemented, replacing the central heat plant with individual building heating plants, to alleviate the frequent failures of the underground steam and condensate lines, which caused the loss of energy and expensive repair costs.

d. Causes: Chemical analysis performed on the soil surrounding the sections of failed pipes revealed high sulfate concentrations and low resistivity leading to an anticipated corrosion activity of SEVEKE magnitude. This condition creates a highly unfavorable condition for underground metal piping to be used for domestic water and fire protection distribution for this facility.

e. Alternatives/Decision: The replacement/repair of the evisting underground water lines may be done using one of two methods. The preferred method would be the excavation and replacement of the existing deteriorated cast iron piping with new FVC bioing of similar size. The most economical and practical design for this project is to cap off abandon lines and repute to eliminate excessive lengths of piping.

The alternative method would be the sliplining of the existing cast iron orping with a flexible type PVC orpe liner, along with replacement where the sliplining is not practical or cost effective. A preliminary design and estimate indicated that the sliplining method would not be cost effective due to the high unit cost for the material and the amount of excavation required to allow for the sliplining process. The preliminary estimate for the sliplining method is \$1,250,000 in comparison to \$740,000 for the excavation and replacement method.

\*

LY 92 PROSRAM DATE 13 AUG 1987 FROJECT NUMBER: 26659 Water Fipe Line Potable PROJECT TITLE: Fort Drum INSTALLATION: New York LOCATION: SECTION 12 - CRITERIA FOR PROPOSED CONSTRUCTION 12A CRITERIA FOR PROPOSED CONSTRUCTION This project will utilize criteria in the Architectural and Engineering instructions dated July 1989, and current Department of the Army Regulations & Guidance. PROJECT DEVELOPMENT REDCHURE (PDB) DISCUSSION: 12B N/A

DATE 13 AUG 1987 PROJECT NUMBER: 26659 Water Fice Line Potable FROJECT TITLE: INSTALLATION: Fort Drum

New York

138 FURNISHINGS AND EQUIPMENT DISCUSSION

SECTION 13 - FURNISHINGS AND EQUIPMENT

FY 92 PROGRAM

•••

N/A

LOCATION:

DATE 13 AUG 1987 EY 92 PROGRAM PROJECT NUMBER: 26659 PROJECT TITLE: Water Fipe Line Potable INSTALLATION: Fort Drum LOCATION: New York

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SECTION 14 - SURVIVAL MEASURES

146 SURVIVAL MEASURES

N/A

DATE 13 AUG 1987 FY 92 PROGRAM PROJECT NUMBER: 26659 PROJECT TITLE: Water Fipe Line Potable INSTALLATION: Fort Drum LOCATION: New York

SECTION 15 - ENVIRONMENTAL ANALYSIS

15R1 SUMMARY OF ENVIRONMENTAL CONSEQUENCES This project qualifies as categorical exclusion No. 5, AR 200-2, Appendix A. FY 92 PROGRAM

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DATE 13 AUG 1987 FROJECT NUMBER: 26659 Water Pipe Line Potable FROJECT TITLE: Fort Drum INSTALLATION: New York LOCATION:

SECTION 10 - EVALUATION OF FLOOD HAZARD AND ENCROACHMENT

EVALUATION OF FLOOD HAZARD AND ENCRUACHMENT \_\_\_16A

N/4

FY 92 PROGRAM

- 440 1987		F T	
FROJECT NUMBER.	26659 Water Pipe Fort Drum New York	Line	Fotable

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SECTION 18 - PROTECTION GF HISTORIC PROPERTIES

18A HISTORIC AND ARCHEOLOGICAL SITES (STANDARD TEXT) a. This project has been evaluated for impact on historic and archeological property and complies with the National Historic Freservation Act (FL 89-555), as amended, and E0 11593.

DATE 13 AUG 1987 PROJECT NUMBER: 26659 PROJECT TITLE: Water Pipe Line Potable INSTALLATION: Fort Drum LOCATION: New York

SECTION 19 - ENERGY AND UTILITY REQUIREMENTS

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19A SUMMERY OF ENERGY REQUIREMENTS

N/A

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19C SUMMARY OF UTILITY SUPPORT

N/A

SECTION 20 - PROVISIONS FOR THE HANDICAPPED

200 HANLICAP PROVISIONS

N/A

2

HATE 13 AUG 1997 FY 22 PROGRAM PROJECT NUMPER: 26659 TROJECT TITLE: Water Pipe Line Hotable NSTALLATION: Fort Drum LOCATION: New York

JECTION 21 - COMMERCIAL ACTIVITIES

DIB EXECUTIVE SUMMARY OF THE CA ANALYSIS

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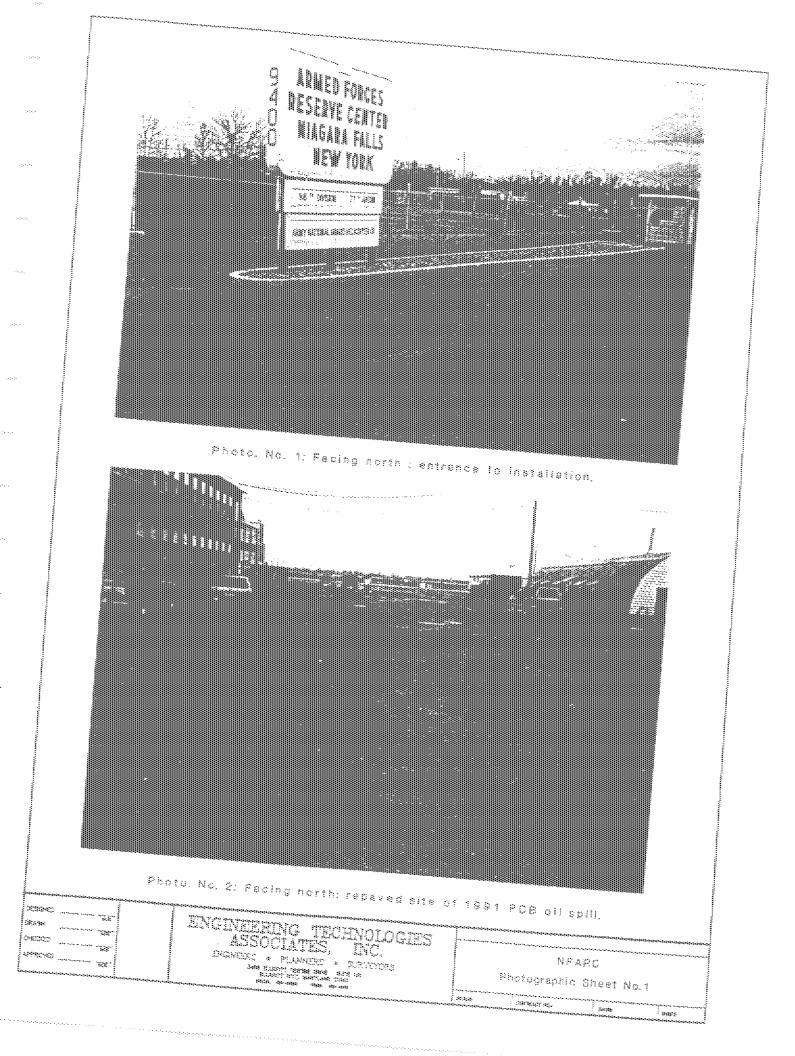
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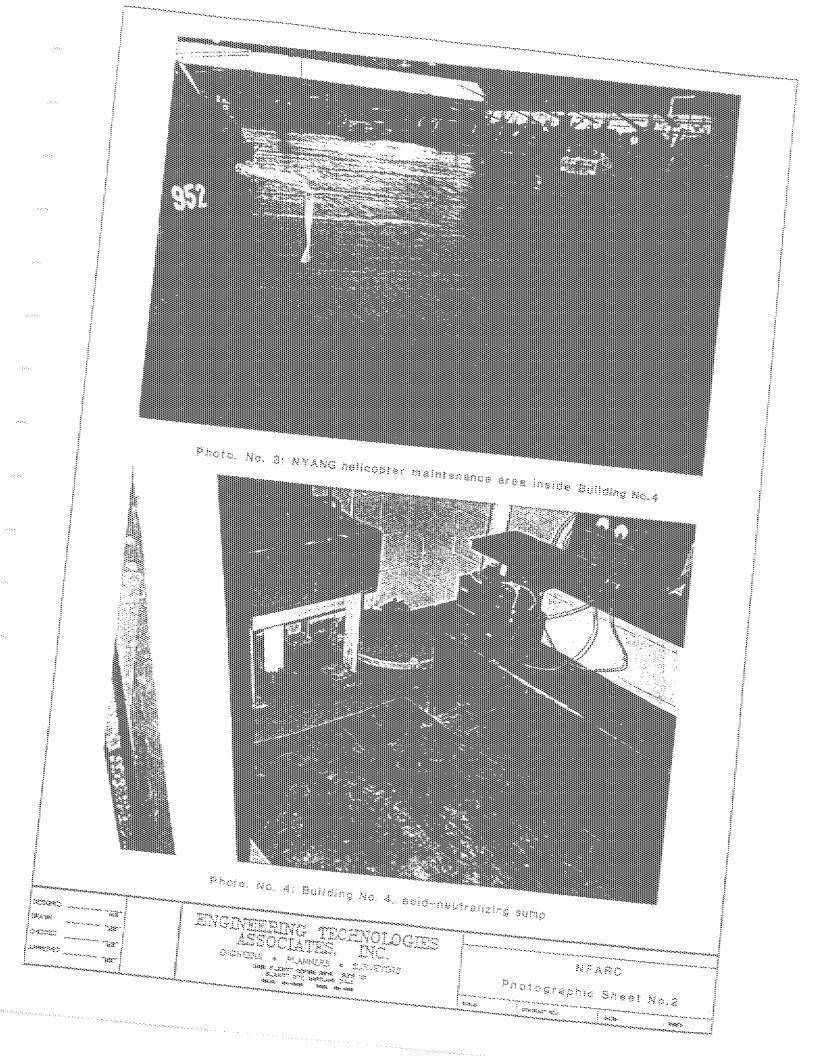
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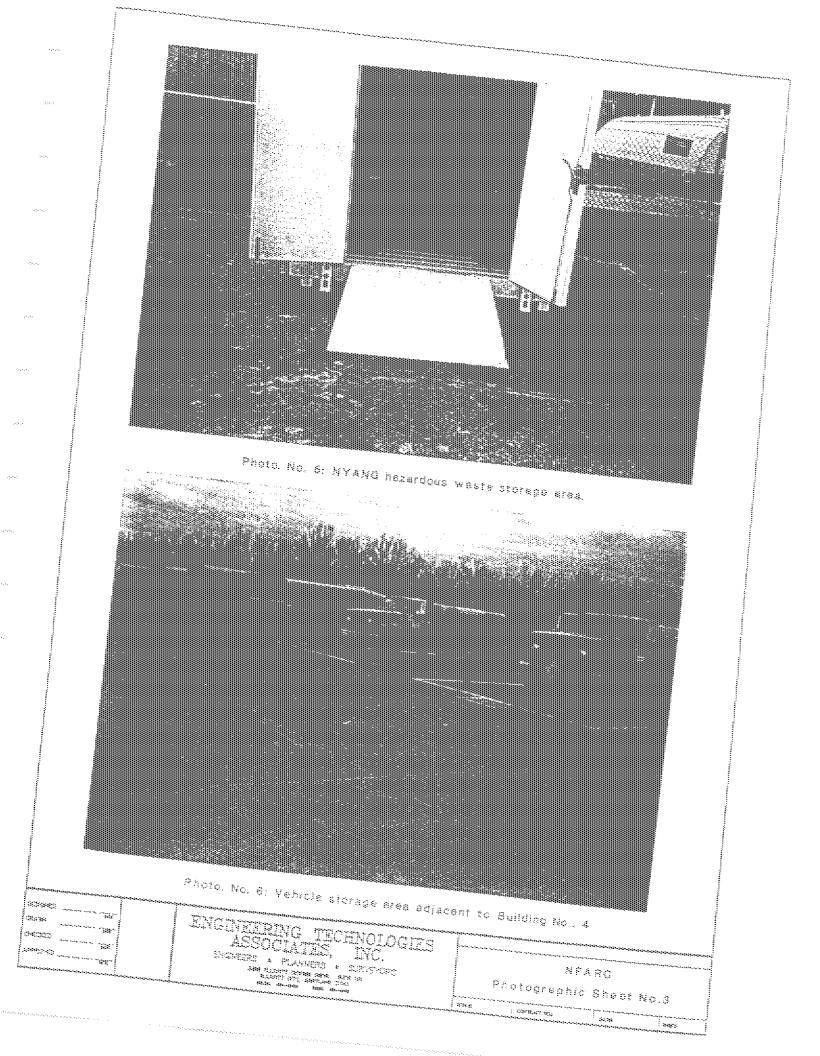
# APPENDIX C

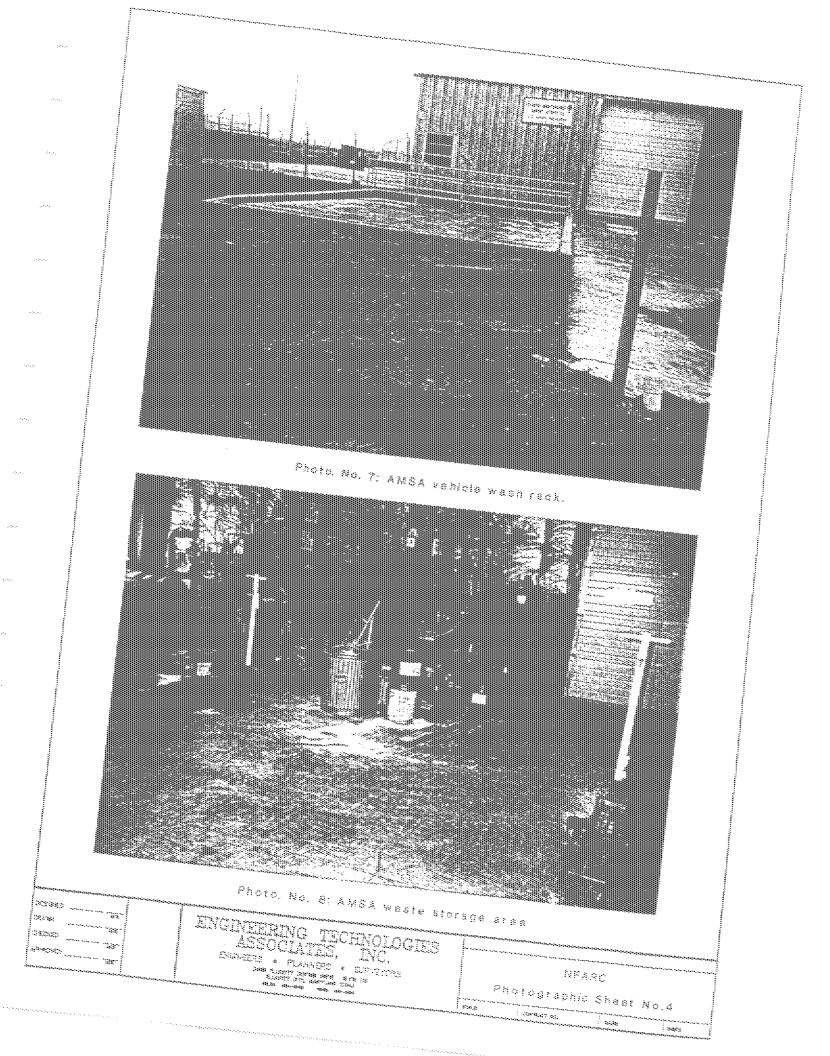
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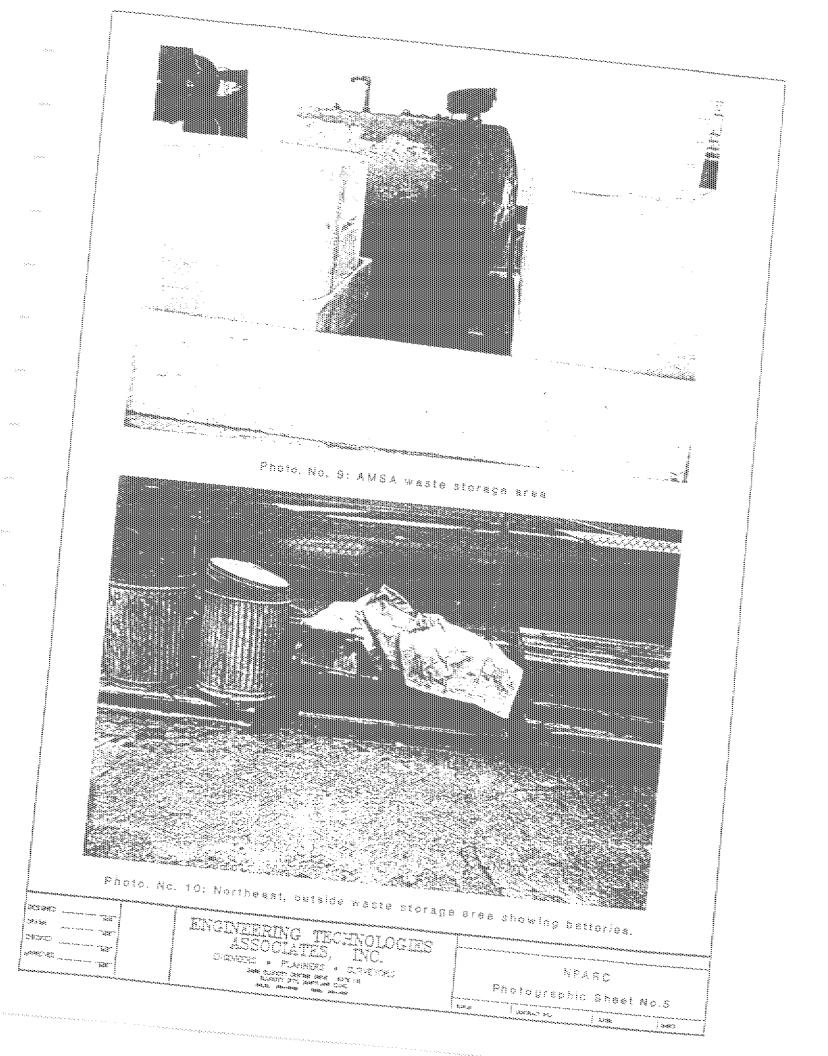
All photographs were taken during the site visit which occurred between October 18 - 22, 1993.











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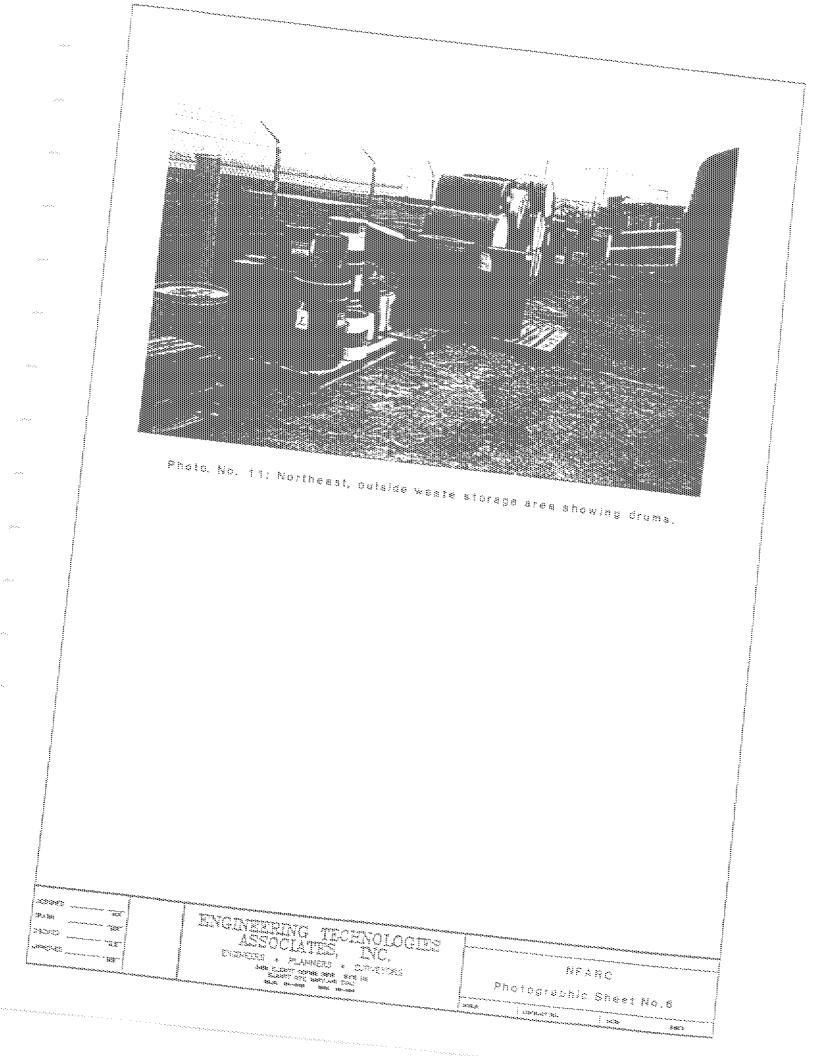
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	APPENDIX D
	Study Area Map
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## APPENDIX E

## Acronym and Abbreviation List

ACM	asbestos containing material
AMSA	Area Maintenance Support Activity
ARCOM	Army Reserve Command
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
DEH	Directorate of Engineering and Housing
ETA	Engineering Technologies Associates
HRS	Hazard Ranking System
JP4	jet fuel
MEK	Methyl ethyl ketone
NFAFRC	Niagara Falls Armed Forces Reserve Center
NYARNG	New York Army National Guard
NYDEC	New York Department of Environmental Conservation
РА	preliminary assessment
PCB	polychlorinated biphenyls
PPE	probable point of entry
SARA	Superfund Amendments and Re-authorization Act
SQG	Small Quantity Generator
USATHAMA	United States Army Toxic and Hazardous Materials Agency
USGS	United States Geological Survey
UST	underground storage tank
Zep-Z-C	soap/detergent concentrate

# **CLOSURE REPORT**

## UNDERGROUND STORAGE TANK REMOVALS

Niagara Falls United States Army Reserve Center 9400 Porter Rd. Niagara Falls, NY 14304



**Prepared for:** 

U.S. Army Corps of Engineers Baltimore District

Prepared by:

SVERDRUP ENVIRONMENTAL, INC. 575 S. CHARLES STREET, SUITE 404 BALTIMORE, MD 21201

December 14, 1999

USACE CONTRACT NO. DACA31-98-D-0035 DELIVERY ORDER NO. 0004 SVERDRUP PROJECT NO. 000223



December 23, 1999

Office of the Deputy Chief of Staff, Engineer

Andrea Skalski New York State Department of Environmental Conservation 270 Michigan Ave. Buffalo, NY 14203

RE: Underground Storage Tank Closure Reports: Amherst U.S. Army Reserve Center, 100 N. Forest Rd., Amherst; Niagara Falls Armed Forces Reserve Center, 9400 Porter Rd, Niagara Falls; and PFC Deglopper U.S. Army Reserve Center, 2393 Colvin Blvd., Tonawanda

Dear Ms. Skalski:

Enclosed please find the underground storage closure reports for the Amherst, Niagara Falls, and Tonawanda United States Army Reserve Centers. The 4 UST's were associated with oil water separators, and were removed during September. A spill was reported for the 550 gallon fiberglass UST at Niagara Falls, NYSDEC spill number 9907461, due to the groundwater coming into contact with the interior of the UST causing a visible oil sheen on the surface. All groundwater in the excavation was pumped out and drummed for later disposal and no water sample was taken. Disposal manifests are included in the report. Please contact Dick Ramsdell at (718)352-2091 if you have any questions regarding these tank reports or the reported spill.

Sincerely,

charles. Avillips, 65-12

Nickolas Christopher Colonel, U.S. Army Reserve Deputy Chief of Staff, Engineer

Enclosures

Copies Furnished:

David S. Martin Niagara County Health Department 5467 Upper Mountain Rd Lockport, NY 14094 December 23, 1999

David S. Martin Niagara County Health Department 5467 Upper Mountain Rd Lockport, NY 14094

Enclosed please find the underground storage tank Closure Report for the Niagara Falls Armed Forces Reserve Center oil water separator - UST's. These tanks were removed September 21 and 22, 1999. Please see the enclosed letter to NYSDEC as well as the report, which provides details of the spill. If you have any questions, please call me at (718) 352-2091.

Sincerely,

Dick Ramsdell Environmental Specialist, 77<sup>th</sup> RSC JM Waller Associates, Inc.

Enclosures

ANT ANT ANT AND A

Sverdrup Civil, Inc. 575 South Charles Street Suite 404 Baltimore, Maryland 21201 410 837-5840 FAX: 410 837-3277

December 20, 1999

Mr. Richard C. Ramsdell 77<sup>th</sup> Regional Support Command AFRC-CNY-EN, Building 200 Ft. Totten, NY 11359

Re: Contract DACA31-98-D-0035, Delivery Order 0004 Underground Storage Tank Removals at Six United States Army Reserve Centers - 77<sup>th</sup> RSC

Subject: Response to 77<sup>th</sup> RSC Comments on SvE Closure Reports

Dear Mr. Ramsdell:

Enclosed, please find the subject Response to Comments document dated 20 December 1999, three-hole punched copies of the associated replacement pages, and a set of floppy discs containing the electronic copies of the various Closure Reports, as requested. One copy of this submittal has been forwarded to Mr. William Ebersbach, USACE, Ft. Drum, New York.

Also enclosed, as requested 20 December 1999 via e-mail, is an additional copy of the Niagara Falls USARC, UST Removal Closure Report dated 14 December 1999.

Please contact me at (410) 837-5840 if you have any questions regarding this submittal.

Sincerely, SVERDRUP ENVIRONMENTAL, INC.

Christopher L. Stone Project Manager

CC: R. Gribben, SvE W. Ebersbach, USACE Proj File 223-04-32A STL File 223-04-32A

#### UST Closure Reports Various USARCs Response to Comments

The Sverdrup Environmental, Inc. (SvE) action taken or response to each comment pertaining to UST Closure Reports at various USARCs, received from the 77<sup>th</sup> RSC, are presented in bold type immediately following the comment.

#### A. Amherst

1. Page 2-1: The 3<sup>rd</sup> paragraph in section 2.2 should be moved up and become the first paragraph.

Page 2-1: Corrected, as requested.

 Page 4-1: All copies of the report we received have the Deglopper Section 4.0 Report Summary. Please send us the Amherst page 4-1.
 Page 4-1: Corrected, as requested.

#### **B.** Tonawanda

1. Page 2-1: Section 2.2 last paragraph should further describe that the UST was broken up due to it being under the groundwater and close to the sanitary line, as seen in the photo. This helps to explain why there was contamination in the GW and the sidewall, but not the bottom composite soil sample, since there may have been some residue in the UST bottom that contained these compounds and floated on the water.

Page 2-1: The explanation of the tank demolition has been added to the report, as requested. SvE can not, however, speculate as to why the analytical results varied between the three closure samples. It should be noted that the contaminants identified in the groundwater sample were not necessarily the same chemical compounds as those identified in the sidewall soil closure sample. Further, the contaminants identified in the groundwater sample were not detected in the sample of the UST contents collected and analyzed prior to the tank removal.

- Page 3-2: Please write out the 3 compounds found to be above the EGV in sample DLAC-GW-W-02 as done earlier in the report.
   Page 3-2: Information included, as requested.
- Page 4-1: Section 4.1 should include information about the UST being broken up to help explain the soil and GW contamination found at the site similar to above in 1.
   Page 4-1: Information included, as requested. See Response to Comment 1.

#### **C.** Niagara Falls

1. Please add a line or two that states the contamination found in the soil and water samples from both tank excavations is likely to have come from the mixing of the GW with the interior sludges from both UST's.

SvE can not speculate as to why contaminants were identified in the closure samples for the 1000-gallon UST. It should be noted that the contaminants identified in the groundwater sample were not necessarily the same chemical compounds as those

1

identified in the soil samples. Further, the contaminants identified in the groundwater sample were not detected in the sample of the UST contents collected and analyzed prior to the tank removal. In regard to the 550-gallon UST, no contaminants, listed as parameters in Table 2 of the NYSDEC STARS Memo #1, were detected at a level above the laboratory quantitation limit.

 Page 1-1: Section 1.2 second paragraph last sentence. Identify the 550 gallon UST as being "used for storage of waste oil discharged from the washrack oil/water separator," not "the facility OWS".

#### Page 1-1: Corrected, as requested.

 Page 2-1: Last paragraph needs to identify that the spill was reported by the 77<sup>th</sup> RSC, Mr. Ravi Ajodah, REMSA, Inc., and that Linda began communication with NYSDEC Region 9.

#### Page 2-1: Information provided, as requested.

4. Page 2-2: first paragraph on the page, please add that the GW was not recharging the pit and that after removing the approximately 400 gallons, the pit was dry and remained so for over 30 minutes while we waited for the Niagara County inspector and while Linda tried to contact Sal from NYSDEC.

#### Page 2-2: Information provided, as requested.

- Page 2-2: 4<sup>th</sup> paragraph down 3<sup>rd</sup> line in the paragraph. ... the UST removed from the Niagara Falls USARC was combined... not "were," change were to was.
   Page 2-2: Corrected, as requested.
- Page 2-3: Section 2.2.2, 3<sup>rd</sup> paragraph, please add a description of the 1000 UST partially filling with water and describe how it was inverted and discharged its contents as seen in the photo during removal. Also add that there was not a visible sheen or any form of sludge visibly discharged during the tank emptying into the pit.
   Page 2-3: Information provided, as requested.
- 7. Page 3-4: Table 3. Please invert the table so the top is along the binder. **Page 3-4: Corrected (also Table 4), as requested.**
- 8. Appendix B: Include copies of the disposal manifests that I sent you. Appendix B: Information provided, as requested.
- Appendix D: The samples for the 1000 gallon UST are not included. Please send sample results for the 1000 gallon UST.
   Appendix D: Information provided, as requested.
- 10. Appendix F: Include the UST summary page before the COC form for each UST pulled. Appendix F: Information provided, as requested.

2

#### **CLOSURE REPORT**

#### UNDERGROUND STORAGE TANK REMOVALS

Niagara Falls United States Army Reserve Center 9400 Porter Rd. Niagara Falls, NY 14304



Prepared for:

U.S. Army Corps of Engineers Baltimore District

Prepared by:

SVERDRUP ENVIRONMENTAL, INC. 575 S. CHARLES STREET, SUITE 404 BALTIMORE, MD 21201

December 14, 1999

USACE CONTRACT NO. DACA31-98-D-0035 DELIVERY ORDER NO. 0004 SVERDRUP PROJECT NO. 000223

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- В Bills of Lading/Manifests for Waste Disposal/Recycle
- С UST Removal Site Activity Photographs
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- Laboratory Report of Analysis for UST/OWS Contents Laboratory Report of Analysis for Project Closure Samples F
- Tank Certificate of Disposal G
- NYSDEC STARS Memo #1 Guidance Values Н
- Minutes of Spill Report L

Sverdrum

Sverdrup Civil, Inc. 575 South Charles Street Suite 404 Baltimore. Maryland 21201 410 837-5840 FAX: 410 837-3277

19 November 1999

Mr. William Ebersbach Resident Engineer CENAN-CO-WD 4895 Nininger St. Fort Drum, NY 13602

Re: Contract DACA31-98-D-0035, Delivery Order 0004 Underground Storage Tank Removal Activities at Niagara Falls USARC

Subject: Professional Engineer Certification Letter for Services Performed

Dear Mr. Ebersbach:

This letter certifies all underground storage tank removal activities performed by Sverdrup Environmental, Inc. (SvE) at Niagara Falls United States Army Reserve Center, Niagara Falls, NY have been completed in accordance with the Contract, Base Specifications, and approved work plans for this task. Furthermore, SvE has complied with all federal, state, and local regulatory requirements throughout the course of work at Niagara Falls USARC.

If you have any questions or require additional information, please contact me at (703) 790-0040.

Sincerely

Gerald C. Brown, P.E. Vice President/Program Manager

Closure Report Niagara Falls USARC December 14, 1999

#### EXECUTIVE SUMMARY

Sverdrup Environmental, Inc. (SvE), under contract with the United States Army Corps of Engineers (USACE) Baltimore District, performed the removal of two underground storage tanks (USTs) at the Niagara Falls United States Army Reserve Center (Niagara Falls USARC) located at 9400 Porter Rd. Niagara Falls, NY. A 550-gallon fiberglass UST was located beneath a concrete pad, adjacent to the facility vehicle wash rack. The fiberglass UST was 4 feet in diameter and 6 feet long. A 1,000-gallon, double wall, steel tank was located beneath asphalt, next to a concrete vault containing an oil/water separator (OWS). The steel tank was 4 feet in diameter and 10 feet 9 inches long.

Prior to the removal of the 550-gallon tank, the contents of the UST and the adjacent OWS were sampled and analyzed. A composite sample of the OWS and UST contents was collected and analyzed for waste characterization. Analytical parameters included: PAHs by Method 8270, VOAs by Method 8260, PCBs by Method 8082, TCLP Metals, Ignitability, Reactivity, and Corrosivity. Based upon TCLP analytical data for Lead, Selenium, and Cadmium, the UST and OWS contents were determined to be hazardous waste. The contents of the 550-gallon UST and associated OWS were removed using a vacuum truck. The liquid was drummed, staged, and labeled by SvE. The 77<sup>th</sup> RSC was responsible for disposal of the drummed waste. The UST was removed in sections, cleaned, and transported to the CID Chaffee Landfill in Chaffee, NY for disposal.

Prior to the removal of the 1,000-gallon UST, the tank contents were sampled and analyzed for waste characterization. Analytical parameters included: PAHs by Method 8270, VOAs by Method 8260, PCBs by Method 8082, TCLP Metals, Ignitability, Reactivity, and Corrosivity. Based upon analytical results, the UST contents were determined to be non-hazardous waste and were removed using a vacuum truck. The waste was transported to Environmental & Industrial Contracting Services (EICS) in Niagara Falls, NY, for recycling. The UST was removed, cleaned, rendered useless, and transported to Lake Erie Recycling Corp., in Buffalo, NY to be recycled as scrap steel.

During excavation, the condition of each UST and the soil in the excavation pits were observed and noted by the SvE Site Superintendent. Both tanks appeared to be in good condition, with no visible holes. The soil at the bottom of each excavation exhibited no petroleum odor or staining. During removal of the 550-gallon tank, groundwater contacted the interior of the tank, which created a visible sheen on the groundwater. A spill was reported in accordance with New York State Department of Environmental Conservation (NYSDEC) regulatory requirements. The SvE Superintendent inspected the excavated soil stockpiles. Headspace analysis of the excavated soil did not indicate the presence of volatile organic compounds (VOCs).

Subsequent to field screening activities, excavation activities were halted and closure samples were collected from both excavation pits. Since the contents of the 550-gallon

Closure Report Niagara Falls USARC December 14, 1999

UST were determined to be hazardous waste, the soil and water from the 550-Gallon UST excavation pit were sampled for NYSDEC STARS 8021 and 8270, and for hazardous waste characterization. The hazardous waste characterization sampling included: PAHs by Method 8270, VOAs by Method 8260, PCBs by Method 8082, TCLP Metals, Ignitability, Reactivity, and Corrosivity. None of the STARS 8021 or 8270 compounds were detected in the samples. Trichloroethene was detected by method 8260 at 42 ppb in sample number NFAC-SW-S-03 (composite soil sample of the excavation side-walls), and at 6.6 ppb in sample number NFAC-ES-S-04 (composite of excavation floor).

Soil and water from the 1,000-gallon UST excavation pit were sampled for NYSDEC STARS 8021 and 8270. Analytical results of the groundwater sample identified 1,2,4-Trimethylbenzene, n-Butylbenzene, and Naphthalene present in the excavation groundwater sample (NFAC-GW-W-05), at concentrations which exceeded the NYSDEC STARS Memo #1 extraction guidance values (EGV) for liguids. Analytical results identified Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Benzo(a)pyrene, Benzo(g,h,i)perylene, and Indeno(1,2,3-cd)pyrene present in soil sample NFAC-ES-S-06, at concentrations which exceeded the NYSDEC STARS Memo #1 alternative guidance values (AGV) for solids. Analytical results identified Benzo(k)fluoranthene. Benzo(a)anthracene, Benzo(b)fluoranthene, Chrvsene. Benzo(a)pyrene, and Benzo(g,h,i)perylene present in the soil sample NFAC-ES-S-07, at concentrations which exceeded the NYSDEC STARS Memo #1 alternative guidance values (AGV) for solids.

Due to the lack of petroleum contamination in the soil surrounding the 550-gallon UST and the limited nature of the petroleum contamination in the soil surrounding the 1,000-gallon UST, SvE recommends that no further action is necessary at this time. It should be noted, however, that subsequent site assessment and/or remedial action may be required by the NYSDEC for the UST closures at Niagara Falls USARC.

#### 1.0 **PROJECT BACKGROUND**

The United States Army Corps of Engineers (USACE), Baltimore District, selected Sverdrup Environmental, Inc. (SvE) to perform underground storage tank (UST) removal and installation actions, at various locations within the United States Environmental Protection Agency (USEPA) Regions I, II, and III, under the UST Removal and/or Upgrade Contract, No. DACA31-98-D-0035. SvE was tasked under Delivery Order 0004 of this contract with the removal of two USTs at the Niagara Falls United States Army Reserve Center (Niagara Falls USARC) in Niagara Falls, NY.

#### 1.1 Objectives

The primary project objective was to close the 550-gallon UST and the 1,000-gallon UST at Niagara Falls USARC by removal and to provide the USACE with a description of activities, field observations, and analytical data associated with the project. This UST Removal Closure Report summarizes information regarding the UST removals, including: narrative description of field work activities and observations; project photographs; laboratory reports associated with soil and groundwater samples collected; record drawings identifying UST and closure sample locations; and disposal documentation of waste streams generated from the removal.

The UST Removal Closure Report is intended to provide sufficient information for NYSDEC officials to determine if a more detailed investigation of site conditions is necessary, or if no further action is warranted.

#### 1.2 Site Description

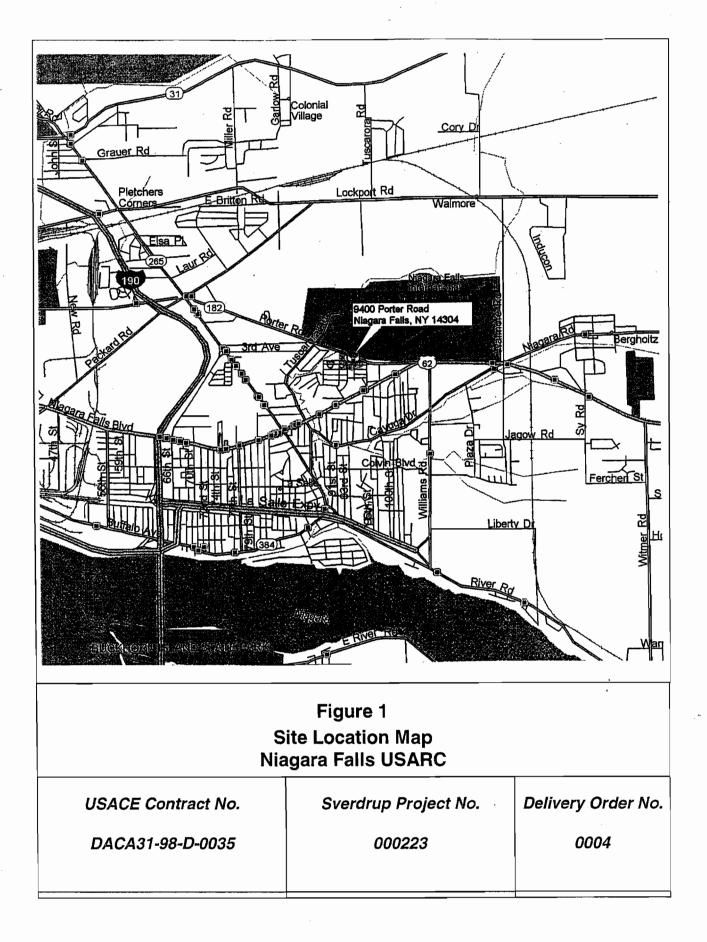
Niagara Falls USARC is located at 9400 Porter Rd. Niagara Falls, NY 14304. Figure 1 provides a map of the site and vicinity.

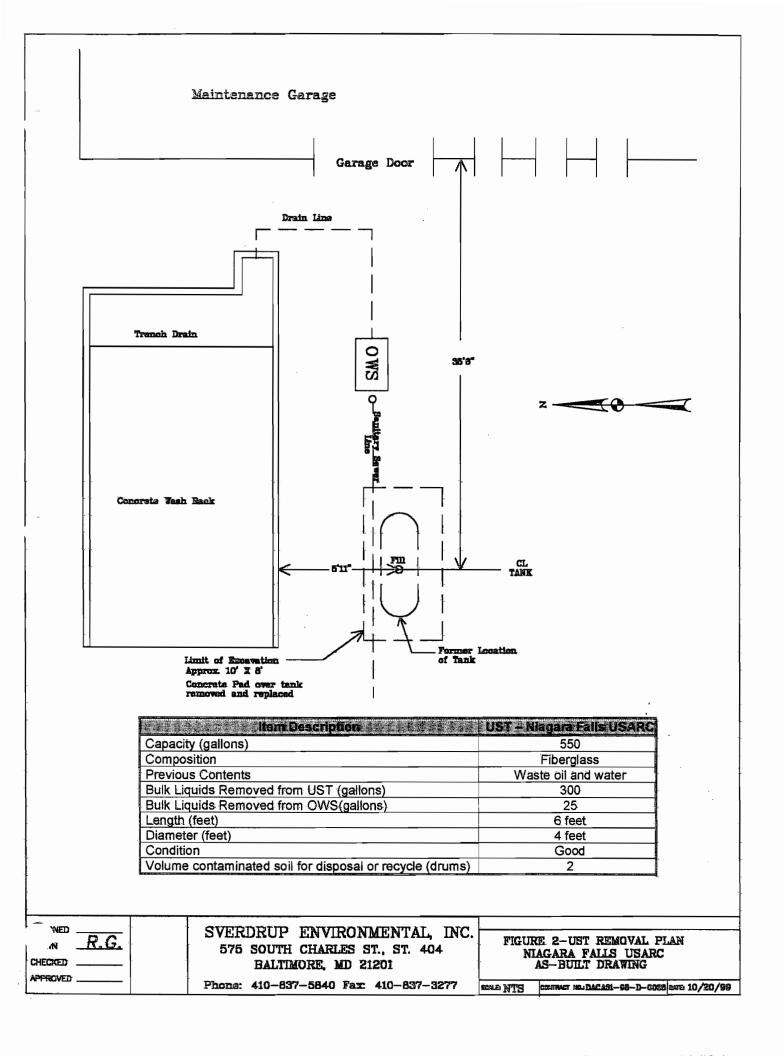
The 550-gallon fiberglass tank was located beneath a concrete pad adjacent to the facility wash rack. A diagram of the wash-rack and OWS/ UST layout is presented in Figure 2. The UST was previously used for storage of waste oil discharged from the washrack oil/water separator (OWS).

The 1,000-gallon steel tank was located beneath an asphalt parking area, adjacent to a concrete vault containing the oil/water separator. A diagram of the OWS vault and the 1,000-gallon UST layout is presented in Figure 3. The UST was previously used for storage of waste oil discharged from the oil/water separator (OWS). The oil/water separator is piped to the floor drains inside the vehicle maintenance building. The oil/water separator is also piped to the building roof drains.

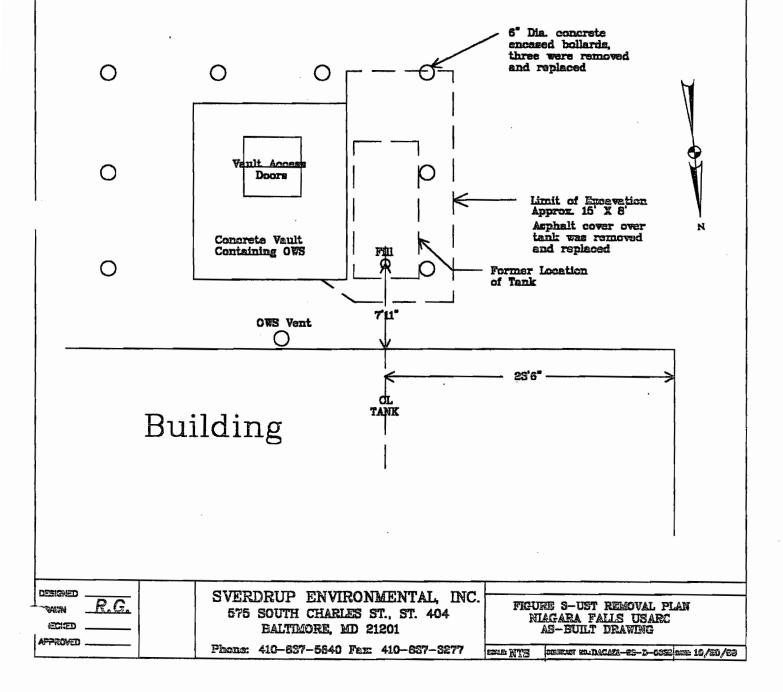
The 550-gallon UST was removed and the oil discharge line was cut at the excavation wall and plugged with hydraulic cement, and then plugged at the OWS with a 2 inch threaded galvanized steel plug. The vent line from the UST was cut and capped at the excavation wall with hydraulic cement. The vent line from the OWS was left in place.

The 1,000-Gallon UST was removed and the oil discharge line was cut inside the concrete vault and capped with hydraulic cement and a wing nut type expandable plug. The OWS and UST vent lines were originally manifolded via a tee connection. The vent line from the UST was disconnected at a 2-inch elbow fitting and capped underground with a 2 inch galvanized steel plug. The 4-inch OWS vent line was thereby isolated and left in place, and is now used to vent the OWS only.





Hem Description	UST-Magaza Fails USARC
Capacity (gallons)	1,000
Composition	Steei
Previous Contents	Waste oil and water
Bulk Liquids Removed from UST (gallons)	1,000
Bulk Liquids Removed from OWS(gallons)	1,000
Length (feet)	10.75 feet
Diameter (feet)	4 feet
Condition	Good
Volume contaminated soil for disposal or recycle (drums)	0



#### 1.3 Schedule of Activities

All work was performed in accordance with relevant provisions of the base contract (DACA31-98-D-0035) and the base specifications for the contract. The UST removal actions complied with current applicable regulations and provisions of the work plans.

SvE mobilized to the Niagara Falls USARC site on 20 September 1999 to begin UST removal activities. The general schedule of activities for the entire UST removal project consisted of:

- Preconstruction/preparatory inspection meetings;
- Submittal review and approval (USACE);
- Initiation of required NYSDEC notifications;
- Pre-Construction sampling of UST/OWS contents;
- Remove and dispose/recycle oil from the 1,000-Gallon tank;
- Acquisition of utility clearances and markings;
- Mobilization of personnel, equipment, and materials;
- Pump and drum product from the 550-Gallon UST/OWS system;
- · Excavation and removal of 550-Gallon UST;
- · Pump and drum excavation pit water;
- · Soil sample collection and analysis from 550-Gallon tank removal excavation pit;
- Demolition and disposal of UST;
- · Backfill and compaction of 550-Gallon tank excavation pit;
- Excavation and removal of 1,000-Gallon UST;
- Soil and groundwater sample collection and analysis from 1,000-Gallon tank removal excavation pit;
- Backfill and compaction of 1,000-Gallon tank excavation pit
- Concrete restoration at 550-Gallon UST removal location;
- Asphalt restoration at 1,000-Gallon UST removal location;

SvE demobilized from the Niagara Falls USARC project site on 23 September 1999. The asphalt restoration took place on 30 September 1999. The drummed product and groundwater was disposed of by the 77<sup>th</sup> RSC.

#### 2.0 TANK REMOVAL SUMMARY

#### 2.1 Notifications

SvE, in coordination with the USACE and the 77<sup>th</sup> RSC, processed all necessary NYSDEC notifications for the UST removals at Niagara Falls USARC. The notifications identified in this section are based on the requirements set forth in the NYSDEC Petroleum Bulk Storage Requirements (6 NYCRR Part 612, 613, and 614). A copy of the Niagara Falls USARC, Notification of UST Removal Form is included in Appendix A of this report.

#### 2.2 Tank Excavation and Removal

#### 2.2.1 550-Gallon Tank

On 19 August 1999, prior to construction activities at Niagara Falls USARC, SvE sampled the contents of the UST and OWS. A composite sample was acquired by combining samples collected from the contents of the UST and OWS. The composite sample (sample number NFAC-TC-P-01) was analyzed for hazardous waste parameters, in order to properly characterize the waste for disposal. The waste oil and water were determined to be RCRA hazardous, based upon a review of the resulting analytical data. A copy of the analytical data for the UST/OWS contents is included in Appendix F of this report.

On 20 September 1999, the UST and OWS contents were removed and transferred into 55-gallon drums, by Environmental Products and Services (EPS), utilizing a vacuum truck. A total of six drums were labeled and staged on site, for subsequent disposal by the 77<sup>TH</sup> RSC. The vacuum truck was decontaminated following the transfer activities.

The atmospheric conditions inside the UST were assessed with a triple gas meter prior to the removal of the tank. The tank atmosphere contained between 19.5% and 23.5% oxygen and did not exceed 10% of the Lower Explosive Limit (LEL). The atmosphere was also measured for levels of volatile organic compounds (VOCs) using a photoionization detector (PID).

On 20 September 1999, upon confirmation of satisfactory atmospheric conditions inside the tank, the tank was removed by EPS, serving as the SvE construction subcontractor. The tank was buried between a sanitary sewer line and an abandoned concrete footer. The position of the tank relative to the footer and the sanitary line made it impossible to remove the tank intact. The tank was demolished in the ground and removed in pieces. Groundwater infiltrated into the tank and mixed with tank residuals, creating a sheen on the surface of the groundwater. The spill was reported by the 77<sup>th</sup> RSC, Mr. Ravi Ajodah, REMSA, Inc. Ms. Linda Grimmer (EPS) began communication with Mr. Sal Calandra, NYSDEC Region 9 in regard to the spill. Mr. Dave Martin, of Niagara County Health Department, arrived on site to observe the excavation and its subsequent backfill. The minutes of the spill report are included in Appendix I of this report. Because the groundwater displayed a visible sheen, it was pumped from the excavation and stored in 55-gallon drums while awaiting transportation and disposal. Approximately 400 gallons (8 drums) of groundwater were removed from the excavation pit for disposal. In the 30 minutes following the collection of accumulated groundwater and prior to backfill, it was observed that the pit remained dry (groundwater did not recharge the excavation pit). The drums containing groundwater were labeled by SvE and were disposed of by the 77<sup>TH</sup> RSC.

Two drums of waste soil/debris were collected during tank removal and cleaning of the OWS and wash rack trench drain. The soil and debris appeared oily and displayed a strong petroleum odor. Both drums were labeled by SvE and were disposed of by the 77<sup>TH</sup> RSC.

The piping from the OWS was cut at the excavation wall and plugged with hydraulic cement. The feed line from the OWS to the UST was plugged at the OWS with a 2-inch, threaded, galvanized steel plug. The vent line from the UST was cut at the excavation wall and capped with hydraulic cement. The vent line from the OWS was left in place.

The UST was removed in pieces and cleaned prior to disposal at the CID Chaffee Landfill, in Chaffee, NY. The fiberglass UST removed from the Niagara Falls USARC was combined with the tanks removed from PFC Deglopper and Amherst USARCs in one roll-off container, which was transported to the CID Chaffee Landfill. A copy of the certificate of disposal for the tank is included in Appendix G of this report. A copy of the. Bill of Lading and the landfill ticket is included in Appendix B of this report.

Following collection of the groundwater, inspection of the excavation, and field screening and sampling of the soil, the excavation pit was backfilled. Section 3.0 of this report provides specific information regarding the closure samples collected during the UST removal activities.

#### 2.2.2 1,000-Gallon Tank

On 19 August 1999, prior to construction activities at Niagara Falls USARC, SvE sampled the contents of the 1,000-gallon UST. The OWS was inside a concrete vault and was not accessible for sample collection. The sample (number NFAC-TC-P-02) was analyzed for hazardous waste parameters to characterize the waste for disposal. The contents of the tank appeared to be water, containing no visible oil. The tank contents were analyzed and determined to be non-hazardous. A copy of the analytical data for the UST contents is included in Appendix E of this report.

On 14 September 1999, the UST contents were removed using the EPS vacuum truck. Approximately 1,961 gallons of liquid were collected from the UST, indicating that approximately 961 gallons of liquid was removed from the OWS, which was connected to the tank. The liquid waste was transported by Environmental Products and Services

(EPS) for treatment and disposal at Environmental & Industrial Contracting Services (EICS) in Niagara Falls, NY. An additional 250 gallons of water were removed from the tank on 20 September 1999 and transported by EPS for treatment and disposal by EICS. Copies of the Bills of Lading for 14 September 1999 and 20 September 1999 are included in Appendix B of this report.

The atmospheric conditions inside the UST were assessed with a triple gas meter prior to the removal of the tank. The tank atmosphere contained between 19.5% and 23.5% oxygen and did not exceed 10% of the Lower Explosive Limit (LEL). The atmosphere was also measured for levels of volatile organic compounds (VOCs) using a photo-ionization detector (PID).

On 22 September 1999, upon confirmation of satisfactory atmospheric conditions inside the tank, the tank was removed by EPS, serving as the SvE construction subcontractor. The tank was buried approximately 8 feet below grade, under asphalt, and next to the concrete vault. Groundwater infiltrated into the tank during removal activities, there was no visible sheen on the surface of the groundwater. The piping from the OWS was cut inside the concrete vault and plugged with hydraulic cement and a 2-inch wing nut expandable plug. The vent line from the tank, originally connected to the OWS vent line with a tee connection, was disconnected at a 2-inch elbow fitting and capped underground with a 2 inch galvanized steel plug. The 4-inch OWS vent line was thereby isolated and left in place.

During the lifting of the tank from a depth of 8 feet below grade, the tank was inadvertently turned over in the excavation pit, allowing groundwater to flow into and out of several openings in the tank. The water drained from the tank did not appear to contain sludge materials or display a petroleum sheen.

The tank was a double wall steel tank, it was in good condition, with no visible pits or holes. The tank was cut open and cleaned prior to recycling at the Lake Erie Recycling Corp. in Buffalo, NY. A copy of the certified scale ticket of recycling for the tank is included in Appendix B of this report.

Following inspection of the excavation, field screening and sampling of the soil, and groundwater sample collection, the excavation was backfilled. Section 3.0 of this report describes closure sampling activities during the UST removal.

#### 2.3 Site Restoration

#### 2.3.1 550-Gallon Tank

The excavation was backfilled with crusher run material and the excavated soil stockpiled on site. The backfill was performed in 12-inch lifts, which were compacted using the backhoe. When the excavation was filled to within four feet of grade, a walk-behind, vibratory tamper was used to compact the sub-base material. Six inches of reinforced concrete was restored over the excavation area on 23 September 1999.

#### 2.3.2 1,000-Gallon Tank

The excavation was backfilled with crusher run material and the excavated soil stockpiled on site. Backfill of the excavation was performed in 12-inch lifts, which were compacted using the backhoe. When the excavation was filled to within four feet of grade, a walk-behind, vibratory tamper was used to compact the sub-base material. Five inches of asphalt was restored over the excavation area on 30 September 1999.

#### 3.0 SITE ASSESSMENT

#### 3.1 Initial UST/OWS Sampling Activities

3.1.1 550-Gallon Tank

SvE collected a composite sample of the UST and OWS contents on 19 August 1999, prior to UST removal activities, to characterize the waste for disposal in accordance with local, state, and federal regulations. The sample from the tank was collected using a clean, six foot long sample bailer, in order to provide a representative sample from the tank contents. The tank contents appeared to be a mixture of waste oil and water. The sample from the OWS appeared to be mostly waste oil. The UST and OWS grab samples were combined to create one composite sample.

This sample was numbered NFAC-TC-P-01, where NFAC is Niagara Falls Army Center, TC is Tank Contents, P is Product, and 01 is the first sample collected at the site under this tank removal project. The sample was packed in an ice filled cooler and shipped to Specialized Assays, Inc. in Nashville, TN, to be analyzed for PAHs, VOAs, PCBs, TCLP Metals, Ignitability, Corrosivity, and Reactivity. Specialized Assays, Inc. is certified by the USACE, MRD and by the New York State Department of Health.

The resulting analytical data indicated that the UST and OWS contents were classified as hazardous waste. The TCLP Metals analytical results for Lead, Cadmium, and Selenium were reported above regulatory limits. The analytical parameters, methods, and results for the UST/OWS contents composite samples are summarized in Table 1. The analytical data for the UST/OWS contents samples, provided by Specialized Assays, Inc., are included in Appendix E of this report.

3.1.2 1,000-Gallon Tank

SvE collected a composite sample of the UST contents on 19 August 1999, prior to UST removal activities, to characterize the waste for disposal in accordance with local, state, and federal regulations. The sample from the tank was collected using a clean, six foot long sample bailer, in order to provide a representative sample of the tank. The tank contents appeared to be water, with no visible signs of oil.

This sample was numbered NFAC-TC-P-02, where NFAC is Niagara Falls Army Center, TC is Tank Contents, P is Product, and 02 is the second sample collected at the site under this tank removal project. The sample was packed in an ice filled cooler and shipped to Specialized Assays, Inc. in Nashville, TN, to be analyzed for PAHs, VOAs, PCBs, TCLP Metals, Ignitability, Corrosivity, and Reactivity.

The resulting analytical data indicated that the UST and OWS contents were classified as non-hazardous. The analytical parameters, methods, and results for this UST sample are summarized in Table 2. The analytical data for the UST contents sample, provided by Specialized Assays, Inc., are included in Appendix E of this report.

## Table 1550-Gallon Tank – Initial UST/OWS Sample # NFAC-TC-P-01Analytical Data Summary

Analytical Parameter	USEPA SW-846 Analytical Method	Concentration or Results (ppm)			
	PAHs (Hits Only)				
Fluorene	8270	1.65			
Phenanthrene	8270	3.76			
	VOAs (Hits Only)				
Naphthalene	8260	7.1			
	Miscellaneous	1. 法法判断 一次相关的			
PCBs	8082	Non-detect			
TCLP Metals-Arsenic & Mercury	1311/6010B	Non-detect			
TCLP Metals-Barium	1311/6010B	31.2			
TCLP Metals-Cadmium	1311/6010B	2.4			
TCLP Metals-Chromium	1311/6010B	3.8			
TCLP Metals-Lead	1311/6010B	24.8			
TCLP-Metals-Selenium	1311/6010B	2.0			
TCLP Metals-Silver	1311/6010B	2.2			
Corrosivity	1100	Not Corrosive			
Reactive Cyanide	USEPA SW-846	Non-detect			
Reactive Sulfide	USEPA SW-846	94.0			
Ignitability	1020M	>200 °F			

### Table 21,000-Gallon Tank – Initial UST/OWS Sample # NFAC-TC-P-02Analytical Data Summary

Analytical Parameter	USEPA SW-846 Analytical Method	Concentration or Results			
	Analytican method	ULTICSUITS			
PAHs	8270	Non-detect			
VOAs	8260	Non-detect			
PCBs	8082	Non-detect			
TCLP Metals	1311/6010B	Non-detect			
Corrosivity	1100	Not Corrosive			
Reactive Cyanide	USEPA SW-846	Non-detect			
Reactive Sulfide	USEPA SW-846	Non-detect			
Ignitability	1020M	>200 °F			

#### 3.2 UST Closure Sampling

#### 3.2.1 550-Gallon Tank

Soil excavated from around the tank was field screened for petroleum contamination through visual assessment and headspace analysis using a PID. Field samples of the excavated soil yielded non-detectable headspace VOC concentrations. The stockpiled excavated soil was deemed acceptable backfill material in accordance with NYSDEC procedures and was used in backfill operations.

All closure samples were analyzed in accordance with the NYSDEC STARS Memo #1. Since the tank contents were determined to be RCRA hazardous, the excavation soil was also sampled for hazardous waste parameters. Two composite soil samples, one from the excavation floor and one from the excavation side-walls, were collected for analysis. No groundwater closure samples were taken, since the groundwater was removed from the excavation and disposed of. Figure 4 identifies the approximate locations of the closure samples collected by SvE. The two closure samples were submitted to Specialized Assays, Inc. for analysis. Table 3 provides an analytical data summary for the closure samples taken during the removal of the 550-gallon UST and the Specialized Assays, Inc. analytical data report for the closure samples is included in Appendix F of this report.

#### 3.2.2 1,000-Gallon Tank

Soil excavated from around the tank was field screened for petroleum contamination through visual assessment and headspace analysis using a PID. Field samples of the excavated soil yielded non-detectable headspace VOC concentrations. The stockpiled excavated soil was deemed acceptable backfill material in accordance with NYSDEC procedures and was used in backfill operations.

Subsequent to field screening activities in the excavation pit, excavation activities were halted and groundwater and soil closure samples were collected. All closure samples were analyzed in accordance with the NYSDEC STARS Memo #1. Two composite soil samples, both from the excavation floor, were collected for analysis. Samples of the excavation side-walls were not collected, because the side-wall was comprised of pea-gravel. One groundwater closure sample was collected for analysis. Figure 4 identifies the approximate locations of the closure samples collected by SvE. The three closure samples were submitted to Specialized Assays, Inc. for analysis. Table 4 provides an analytical data summary for the closure samples taken during the removal of the 1,000-gallon tank and the Specialized Assays, Inc. analytical data for the closure samples is included in Appendix F of this report.

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5 States	<b>ONERVISIONEN</b>	(of the full of the second	SEDERAMONES	Second Street Street		Strate States	(CARNER)	ansinsaaroansingeroosineesawaraennimbee	AMPLE NUMBER
	E SAN	in the following of the following the follow	aceden za a mitatekh	(10) 10(5)	Mailtine 1012	ale CAV.	sector Laboratory	Intractional and a second s	NFAC:SW:S-04
Compound .	Method	Solid	all liquid as	ASY (app)	EGV (ppb)	(qala)		(qdd)	(ppb)
Benzene	8021	2	1	14	0.7	2.40E+04	-	ND	ND
Ethylbenzene	8021	2	-	100	5	8.00E+06	Ŧ	ND	ND
Toluene	8021	2	1	100	5	2.00E+07	1	DN	ND
o-Xylene	8021	2	2	100	5	2.00E+08	1	ND	ND
m,p-Xylenes	8021	2	2	100	5	2.00E+08	1	DN	ND
Isopropylbenzene	8021	1	-	100	5	***	1	ND	ND
n-Propylbenzene	8021	-	-	100	5	***	1	DN	ND
4-Isopropyltoluene	8021	-	-	100	5	:	1	DN	DN
1,2,4-Trimethylbenzene	8021	-	+	100	5		1	DN	ND
1,3,5-Trimethylbenzene	8021	Ŧ	-	100	5	**	1	DN	ND
n-Butylbenzene	8021	٢	1	100	5	***	1	DN	ND
sec-Butylbenzene	8021	Ŧ	1	100	5		1	DN	ND
t-Butylbenzene	8021	Ŧ	-	100	5		1	QN	ND
Naphthalene	8021		-	200	10	3.00E+05	÷	QN	QN
A STATE OF A	and the second se		Contraction of the second		A State of the second state	ALAS AND AND A CONTRACT	Contraction of the second s	11日日の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日	
Anthracene	8270	330	330	1,000	50	2.00E+07	165	DN	ND
Fluorene	8270	330	330	1,000	50	3.00E+06	165	DN	ND
Phenanthrene	8270	330	330	1,000	50	***	165	DN	ND
Pyrene	8270	330	330	1,000	50	2.00E+06	165	DN	ND
Acenaphthene	8270	330	330	400	20	5.00E+06	165	DN	ND
Benzo(a)anthracene	8270	330	330	0.04	0.002	220	165	QN	ND
Fluoranthene	8270	330	330	1,000	50	3.00E+06	165	QN	ND
Benzo(b)fluoranthene	8270	330	330	0.04	0.002	220	165	DN DN	ND
Benzo(k)fluoranthene	8270	330	330	0.04	0.002	220	165	QN	ND
Chrysene	8270	330	330	0.04	0.002		165	ND	ND
Benzo(a)pyrene	8270	330	330	0.04	0.002	61	165	DN	ND
Benzo(g,h,i)perylene	8270	330	330	0.04	0.002	***	165	ND	QN
Indeno(1,2,3-cd)pyrene	8270	330	330	0.04	0.002	***	165	ND	ND
Naphthalene	8270	330	9	200	10	3.00E+05	165	ND	ND
Dibenz(a,h)anthracene	8270	330	330	1,000	50	14	165	DN	ND
HHGV=Human Health Guidance Value	idance Vali		AGV=Alternative Guidance Value	ve Guidance /		EGV=Extraction Guidance Value	3uidance Value		
ND=Not Detected at report limit	rt limit		NR=Not reported	ted	•	***=None identifie	***=None identified in EPA HEARST Report		
Bold indicates contaminant concentrations greater than the TCLP AGV or the TCLP EGV for a solid or liquid matrix, respectively	nt concentra	ations greater	than the TCL	P AGV or the 1	ICLP EGV fo	r a solid or liquid	matrix, respectively.		

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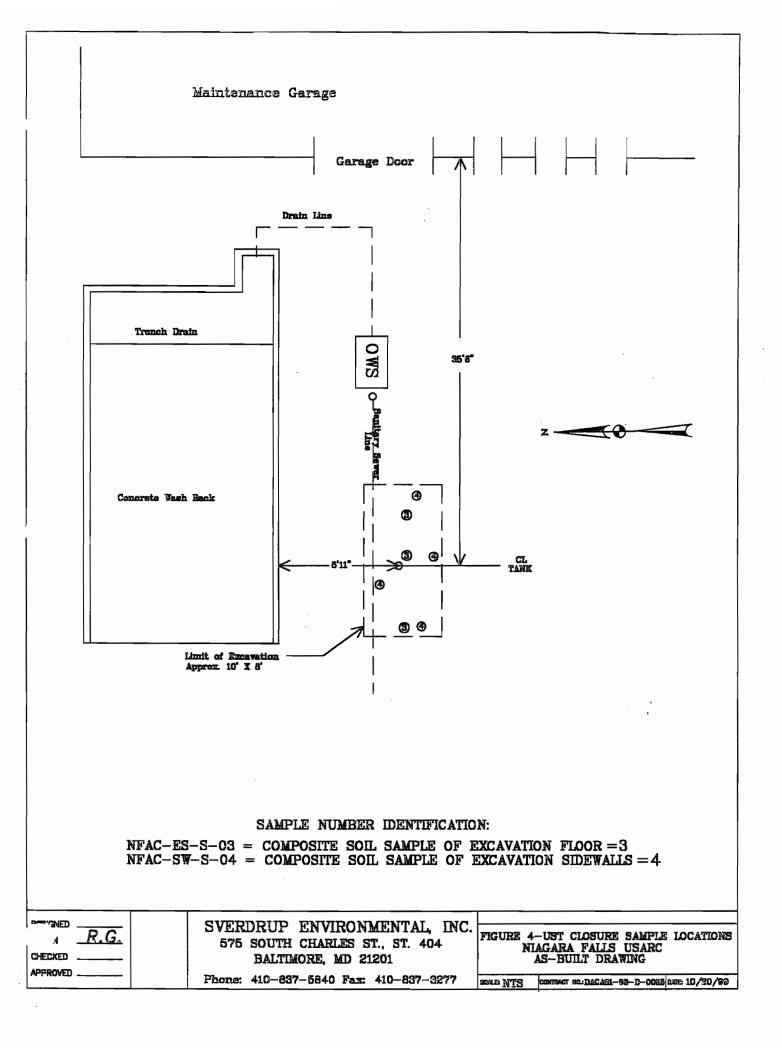
TABLe 4

# NIAGARA FALLS USARC - UST CLOSURE SUMMARY 1,000-GALLON TANK ANALYTICAL DATA SUMMARY

MBER NFACES-S-07 (ppb)	QN	DN	ND	QN	ND	DN	DN	QN	QN	ND	QN	Q	Q	QN		QN	DN	561	726	DN	396	957	264	363	429	396	198	Q	QN	DN	
VIAGARA FALLS USARC-UST CLOSURE SAMPLE NUMBER NFAC-CWW-05- CO0010 INFAC-ES-S-06 NFAC (ppb) LIMIt (ppb) (ppb)	ND	DN	ND	DN	DN	1.1	QN	2.4	2.4	2.2	4.6	2.2	QN	3.8	「日本」となっていたのであるとなった。	DN	QN	561	594	DD	297	792	231	264	297	297	165	165	QN	QN	
ARC-UST CLOSUF Laboratory   NF , Quant Lamit (ppb)	-	-	1	+	-	-	1	-	+	-	-	-	-	-	States of the second	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	
IAGARAFALLSUSA NFAC-OWW255 ((000)		QN	DD	QN	1.3	ND	1.0	2.3	6.9	2.8	12.4	2.1	1.2	17.5	State of the second sec	QN	DN	6.0	DD	DN	DN	6.0	DN	ND	DN	DN	DN	QN	QN	QN	ST Report ely.
AIN Alphototyy August (dugn) (dugn)	-	-	1	-	1	-	-	-	+	-	-	-	-	-	Strating services	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	EGV=Extraction Guidance Value ***=None identified in EPA HEARST Report * a solid or liquid matrix, respectively.
	2.40E+04	8.00E+06	2.00E+07	2.00E+08	2.00E+08	***	***	***	:	:	:	***		3.00E+05		2.00E+07	3.00E+06	:	2.00E+06	5.00E+06	220	3.00E+06	220	220	***	61	***	:	3.00E+05	14	EGV=Extraction ***=None identifi r a solid or liquid
Waley (10)UP (EGV (ppb)	0.7	5	5	5	5	5	5	5	5	5	S	5	5	10		50	50	50	50	20	0.002	50	0.002	0.002	0.002	0.002	0.002	0.002	10	50	Value CLP EGV fo
Soil) (Cap) AGV (ppb)	14	100	100	100	100	100	100	100	100	100	100 ·	100	100	200		1,000	1,000	1,000	1,000	400	0.04	1,000	0.04	0.04	0.04	0.04	0.04	0.04	200	1,000	ve Guidance Value ted AGV or the TCLP f
CE_VALUES II(0) DDD	-	-	1	2	2	-	-	-	-	-	-	-	÷	-		330	330	330	330	330	330	330	330	330	330	330	330	330	6	330	AGV=Alternative NR=Not reported than the TCLP AG
CTARE (ATAKO SAGOIDANCE VALOES) TERA TERA Mourodi EVA	2	2	2	2	2	1	-	-	-	-	-	-	-	-		330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	e / / /
ATEM BANK	8021	8021	8021	8021	8021	8021	8021	8021	8021	8021	8021	8021	8021	8021		8270	8270	8270	8270	8270	8270	8270	8270	8270	8270	8270	8270	8270	8270	8270	idance Valu t limit it concentrat
Supported to the second se	Benzene	Ethylbenzene	Toluene	o-Xylene	m,p-Xylenes	Isopropylbenzene	n-Propylbenzene	4-Isopropyltoluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	n-Butylbenzene	sec-Butylbenzene	t-Butylbenzene	Naphthalene		Anthracene	Fluorene	Phenanthrene	Pyrene	Acenaphthene	Benzo(a)anthracene	Fluoranthene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Benzo(a)pyrene	Benzo(g,h,i)perylene	Indeno(1,2,3-cd)pyrene	Naphthalene	Dibenz(a,h)anthracene	HHGV=Human Health Guidance Value AGV=Alternative Guidance Value EGV=Extraction Guidance Value ND=Not Detected at report limit NR=Not reported

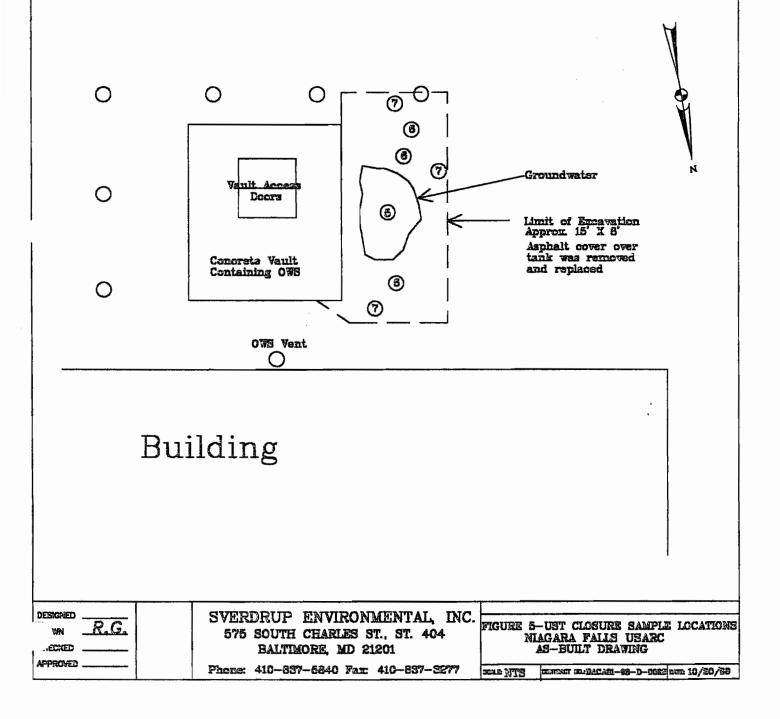
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#### SAMPLE NUMBER IDENTIFICATION:

NFAC-GV-W-05 = GRAB SAMPLE OF EXCAVATION GROUNDWATER = 5 NFAC-ES-S-C6 = COMPOSITE SOIL SAMPLE OF EXCAVATION FLOOR = 6 NFAC-ES-S-07 = COMPOSITE SOIL SAMPLE OF EXCAVATION FLOOR = 7



#### 3.3 Sample Labeling, Custody, and Shipment

Laboratory supplied certified clean containers with Teflon-lined caps were used for each sample collected during the UST Removal activities at Niagara Falls USARC. Sample containers were labeled with water-resistant adhesive labels. The following information was recorded on each sample label, with black permanent ink:

- Project name (Niagara Falls UST Removal)
- Date and time of collection;
- Sampler's name;
- Unique sample number;
- Indication of sample type and method of preservation (if applicable); and
- Requested analysis.

Chain-of-custody (COC) forms and custody seals were used to document that samples were released and received by the proper individuals and that shipping containers were not tampered with during transport to Specialized Assays, Inc. Chain of custody began at the time of sampling and ended upon receipt at the laboratory. The COC forms provide a record of the unique information given on each sample label and any remarks for each sample collected. The COC forms also provide a record of the signatures of persons who released and received the samples. Each COC form was completed and signed by the sampler and then signed again by the receiving individual at Specialized Assays, Inc. A copy of the COC form can be found in Appendix D of the report.

Sample bottles were carefully prepared and packaged for shipment to minimize bottle breakage and provide adequate sample temperature. Sample packages were delivered via Federal Express overnight service to the Specialized Assays, Inc. laboratory in Nashville, TN. Upon receiving the shipped coolers, Specialized Assays, Inc. personnel verified the following:

- The coolers were not damaged or leaking and the tamper-proof seals were not broken;
- Contents of cooler reflect the information provided on the chain-of-custody;
- Sample jars were not damaged or leaking; and
- The temperature of the cooler contents was below 4°C;

Any discrepancies between cooler contents and chain-of-custody forms and comments regarding damaged samples were noted in the "Remarks" section of the chain-of-custody form. The date, time, and signature were recorded on the chain-of-custody form acknowledging the condition and receipt of samples. Once the laboratory signed the chain-of-custody, it assumed responsibility for the proper storage, analysis and disposal of the samples.

#### 4.0 REPORT SUMMARY

#### 4.1 Conclusions, and Recommendations

#### 4.1.1 550-Gallon Tank

Analytical results of the closure samples collected from the excavation of the 550-gallon UST, reported no compounds at concentrations above the NYSDEC STARS Memo #1 alternative guidance values (AGV) for solids. The SvE recommendation for closure of the 550-gallon UST, is that no further action is necessary at this time.

#### 4.1.2 1,000-Gallon Tank

Analytical results of the groundwater sample identified 1,2,4-Trimethylbenzene, n-Butylbenzene, and Naphthalene present in the excavation groundwater sample (NFAC-GW-W-05), at concentrations which exceeded the NYSDEC STARS Memo #1 extraction guidance values (EGV) for liquids.

Analytical results identified Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Benzo(a)pyrene, Benzo(g,h,i)perylene, and Indeno(1,2,3-cd)pyrene present in soil sample NFAC-ES-S-06, at concentrations which exceeded the NYSDEC STARS Memo #1 alternative guidance values (AGV) for solids. Analytical identified Benzo(a)anthracene, Benzo(b)fluoranthene. results Benzo(k)fluoranthene, Chrysene, Benzo(a)pyrene, and Benzo(g,h,i)pervlene present in the soil sample NFAC-ES-S-07, at concentrations which exceeded the NYSDEC STARS Memo #1 alternative guidance values (AGV) for solids.

Although the excavation closure samples contained compounds at concentration levels above the NYSDEC AGV and EGV, the petroleum-impacted soil and water appears to be confined to a limited area and the probable sources of contamination, the UST and product piping, have been removed. Further, It is possible that the contaminants identified in the groundwater sample resulted from the mingling of residual waste oil inside the tank with the groundwater in the excavation, during tank removal. SvE, therefore, recommends that no further action be taken at this time.

It should be noted, however, that since these closure samples contained contaminant concentrations at levels above the NYSDEC STARS Memo #1 guidance values, subsequent site assessment and/or remedial action may be required by NYSDEC Region 9.

#### 4.2 General Summary

Table 5 summarizes general project information regarding the removals of the 550-gallon and 1,000-gallon USTs at Niagara Falls USARC.

Item Description	550-Gallon UST	1,000-Gallon UST
Capacity (gallons)	550	1,000
Composition	Fiberglass	Steel
Previous Contents	Waste oil/water	Waste oil/water
Bulk Liquids Removed from UST (gal)	300	1,000
Bulk Liquids Removed from OWS(gal)	25	1,000
Length (feet)	6.0	10.75
Diameter (feet)	4.0	4.0
Condition	Good	Good
Contaminated soil disposal/recycle (drums)	2	0

#### Table 5 UST Closure Information Summary

#### 4.3 Contractor List

Table 6 provides a contractor list that identifies all of the contractors who participated in the UST removal activities at Niagara Falls USARC. The table provides the contractor name, project role, location, and telephone number.

Table 6 Project Contractor List

Contractor	Project Role	Location	Telephone Number
Sverdrup Environmental, Inc.	Prime Contractor	Baltimore, MD	(410) 837-5840
Environmental Products and Services, Inc.	Subcontractor for construction activities	Buffalo, NY	(716) 447-4700
Specialized Assays, Inc.	Laboratory Analytical Services	Nashville, TN	(615) 726-0177

#### 4.4 Post Closure

A copy of the Post Closure Summary Report, completed by SvE and submitted to the USACE and the 77<sup>TH</sup> RSC, is included in Appendix D of this report.

Closure Report Niagara Falls USARC December 14, 1999

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#### Appendix A

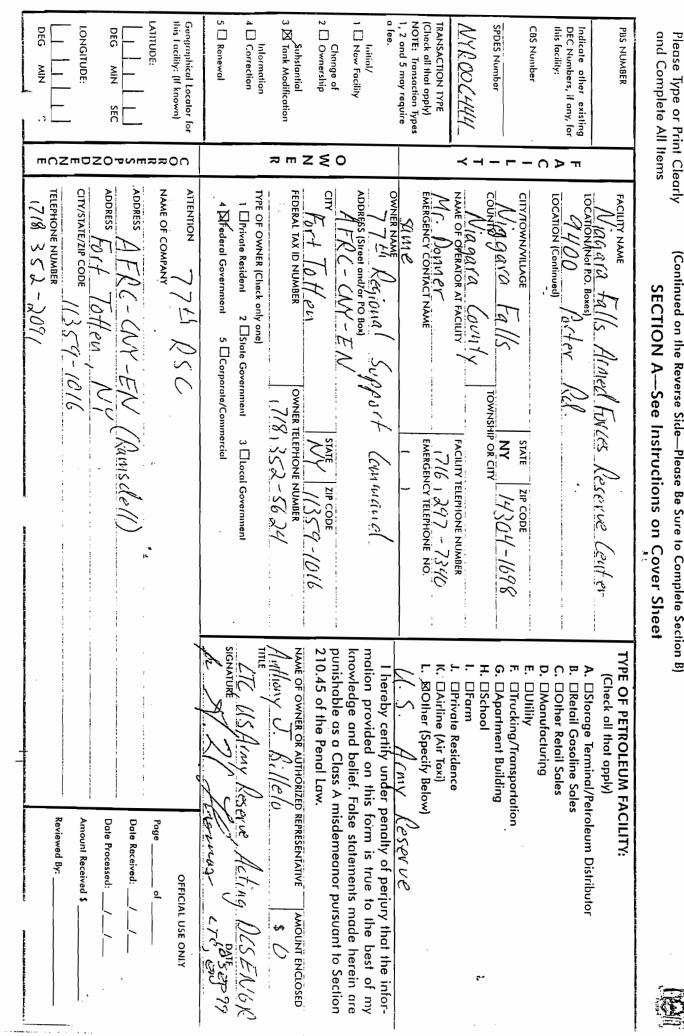
#### **NYSDEC Notification Forms**

93-19-1 (1/97)--q

NEW YORK STATE DEFARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF ENVIRONMENTAL REMEDIATION

# PETROLEUM BULK STORAGE APPLICATION

Pursuant to the Petroleum Bulk Storage Law, Article 17, Title 10 of ECL; 6 NYCRR 612-614 and 6 NYCRR, Subpart 360-14 (Continued on the Reverse Side—Please Be Sure to Complete Section B)



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<ul> <li>PIFING LOCATION</li> <li>O. None</li> <li>1. Aboveground</li> <li>2. Underground/</li> <li>3. Aboveground/</li> <li>Underground Combination</li> <li>SECONDARY CONTAINMENT</li> <li>Underground Combination</li> <li>SECONDARY CONTAINMENT</li> <li>O. None</li> <li>I. Vault</li> <li>2. Double-Walled Tank</li> <li>3. Excavation Liner</li> <li>4. Cut-off Walls</li> <li>5. Inspervious Underlayment</li> <li>6. Earthen Dike</li> <li>7. Prefabicaled Steel Dike</li> <li>8. Concrete Dike</li> <li>9. Concrete Dike</li> <li>9. Concrete Dike</li> <li>9. Natural Liner</li> <li>7. Synthetic Liner</li> <li>8. Natural Liner</li> </ul>						     	2	Piping Location Piping Type	Cover Sheet
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ection switering Well w/channels	 				•	0	0	Leok Spill/ Detection Preveation	
9PIL/OVERFIL PREVEN 0. None 1. Float Vent Valve 2. High Level Alarm 3. Automatic Shut-off 4. Product Level Gaugo 5. Catch Basin 6. Vant Whistle 9. Other 9. Other 1. Submersible 2. Suction 3. Gravity 3. Gravity								Dispenser	Page _
SPILL/OVERFIL PREVENTION None Float Vent Valve High Level Alarm Automatic Shut-off Product Level Gauga Catch Basin Vent Whistle Other* Other* DispENSER Submersible Suction Gravity			 					Losi Test Dole (Underground Tonks) (MO) (YR)	of .

Closure Report Niagara Fails USARC December 14, 1999

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#### Appendix B

#### Bills of Lading/Manifests for Waste Disposal/Recycling

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GENERATOR NUMBER: 32412.000

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10860 OLEAN ND CHAFFEE, NY 14030

TRUCK NUMBER: 402902 ROUTE MUNDER;

ENVIRONMENTAL PROD. & SERVICE

-9400 PORTER AVE. NIAGARA FALLS, NY 14304

WASTE TYPE: GRAVEL HISC. -APPLICATION #:

THEIR TICKET #: 10708 LOCATION: 6F1610 MANIFEST NUMBER: MISC QUANTITY: 3.00 CONTRINER TYPE: 30 30 YD OPEN TOP YARDAGES 30.00

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10860 Olean Road Chaffee, NY 14030-9799 (716) 496-5000 (800) 422-4040 (718) 496-5500 Fax

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icket: 10708 Date Requested: 10/11/199: pened by: MLATES Date Dispatched: 10/11/199 ustomer: 342-32412 ENVIRONMENTAL PROD. & SERVICE 9400 PORTER AVE NIAGARA FALLS NY 14304 716-447-4700 ttn.: LINDA GRIMMER sawested by: FFY

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292-7172 (case of an emergency or split immediately call the state the emergency occurred in and the N.J. Dept. of Environmental Protection and Energy. (609) 292-7172

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State of New Jersey Department of Environmental Protection Hazardous Waste Regulation Program Manifest Section CN 421, Trenton, NJ 08625-0421

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# Appendix C

# **UST Removal Site Activity Photographs**

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### 550-Gallon UST Removal

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9/20/99 - Transfer of waste liquid from UST and OWS into 55-gallon drums, placed on staging pad.



9/20/99 - Transfer of waste soil/debris material from trench drain and OWS into 55-gallon drums.



9/20/99 - Hydraulic concrete breaker demolishing concrete cover above UST.



9/20/99 - UST ripped during excavation (groundwater entering). Sanitary line visible above the tank.



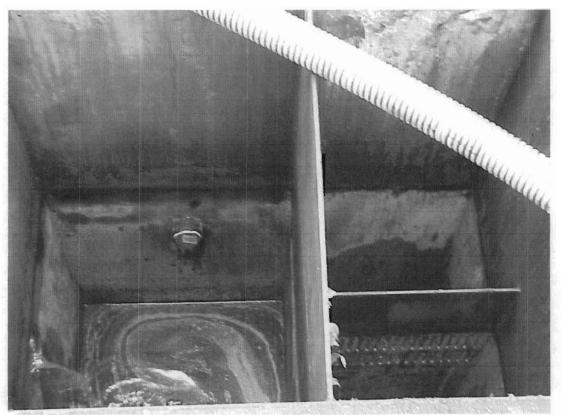
9/20/99 - Tank and piping removed and staged in pieces on plastic.



9/20/99 - Excavation pit following UST removal. Concrete footer and pooled groundwater are visible



9/20/99 - Transfer of groundwater from the excavation into 55-gallon drums.



9/20/99 - Outlet from OWS to UST is plugged with a threaded, two-inch, galvanized steel plug.





9/20/99 - Collecting samples of excavated soil.



9/21/99 - Compaction of sub-base material prior to installation of concrete.

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9/23/99 - Concrete restoration following UST removal activities.



9/24/99 - Staged and labeled 55-gallon drums containing UST and OWS liquids, water, and soil/debris.

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# 1,000-Gallon UST Removal

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9/14/99 - Removing liquids from UST/OWS and concrete vault.



9/20/99 - Removing residual liquids from the UST, prior to tank removal.



9/22/99 - Hydraulic breaker demolishing asphalt cover above the UST.

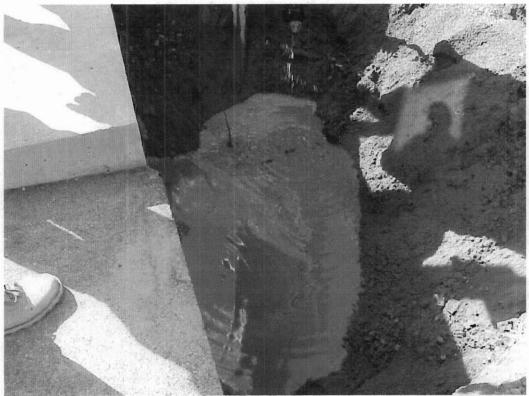


9/22/99 - Top of UST exposed during excavation. Oil feed line from OWS to the UST is visible.





9/22/99 - UST rendered useless prior to transportation to scrap yard.



9/22/99 - Excavation pit following UST removal. Groundwater contained no visible sheen.



9/23/99 - New OWS manway gasket and bolts. Piping from OWS to UST is cut/capped inside vault.



9/22/99 - Groundwater sample collection from the excavation pit.



9/22/99 - Collecting soil sample for VOC field screening via headspace analysis with a PID



9/22/99 - Preparation for asphalt restoration. Compacted sub-base with bollards reset and repainted.



9/30/99 - Completed asphalt and site restoration.

# Appendix D

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# **Post Closure Summary Report**

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#### UST-POST CLOSURE SUMMARY

Closure Date: 09/21/99

Regulatory Authority:

NYSDEC-Region 9 270 Michigan Ave. Buffalo, NY 14203-2999

Site Name and Address:

<u>Niagara Falls United States Army Reserve Center</u> 9400 Porter Rd. Niagara Falls, NY 14304

Owner's Name, Address: And Phone Number

Nickolas Christopher-Colonel, DCSENGR AFRC-CNY-EN Fort Totten, NY 11359-1016 (718)352-5624

Tank Size	Tank Mat'l	Tank Product	No. of Samples Taken	Contaminated *Soil Disposed (Quantity)	Contaminated Groundwater Disposed (Quantity)	Condition Of Tank
550 G	FRP-SW	WO	1-EF 1-ESW	0	325 G	G

Key:

G=Gallons FRP=Fiberglass Reinforced Plastic STL=Steel SW=Single Wall DW=Double Wall WO=Waste Oil and Water mixture EF=Excavation Floor ESW=Excavation Sidewall GW=Groundwater G=Good F=Fair P=Poor

Sample Numbering Key:

The samples are numbered in a format as follows: AAAA-BB-C-01, where AAAA=Facility identification, BB=Sample type, C=sample matrix, 01=sample number. The following key may be helpful when reviewing sample results: MCAC=McConnell Army Reserve Center ES=Excavation sample SW=Sidewall sample GW=Groundwater S=Soil W=Water

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#### Remarks:

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Soil Samples were composites. Groundwater was drummed for disposal, therefore no samples were taken. Sample results are attached. A spill was reported during this UST removal due to groundwater mixing with tank residue and creating a sheen on the groundwater. Please see the attached notes regarding the details of the spill report.

g/21/99 NIMPAR Falls USARC 2'30 Linos German aller Sol CHANISCH, NYSDEC AND left message 2:45 Sal pagend Linon Germanic 2:46 Linos G. colled SAL. LINT WAS 2:46-3:05 LINST G. Lenthrue Attempts Sios Sil page lines 6. 3:06 - Linox 6. spoke to sal. He was mare that spill was when in + thought Dave Drust From Ningar County Healty Dept. with coming ant. - Sal asked if exclusion was breakfilled - I INFRUID BACILFILING UN started I ASKED IF he wonth we to stop BACKFILING HE SAID NO. - Sal ASKer ABUT CIRCUMSTAXES OF spill report. I wduted that slight sheen was Noted. Sheen was seleved to Be Friend grown water mixing with town in residuce. I worked his that water was pumper into isrums mo that there had seen drawed

prior to attempting to pull - I INFORME Sol That soil samples how been collected I also Asked. IF HE world nequine a sumowates SAMPLE. HE SAID SOIL SAMPLES were sufficient .... - Sal stated that he would attempt. . ..... to reach Dave Drust mis confirm he was coming to the site 3:15 Drot Martin of Marant County Huth Dept. Areived onsite ----my net with Dick. • · · · · · · · · · 



PAUL R. DICKY Assistant Public Health Engineer NIAGARA COUNTY HEALTH DEPARTMENT ENVIRONMENTAL HEALTH DIVISION 5467 UPPER MT. ROAD LOCKPORT, NY 14094 OFFICE (716) 439-7444 FAX (716) 439-7440 REET 24-HOUR EMERGENCY NO. (716) 439-7430 ·

Dave Marting Her Hubbys Dave Marting 439- 7444

NYSDEC

New York State Department of **Environmental Conservation** 



**MARVIN PRINGLE** Environmental Engineering Technician II Spill Response Unit Region 9

270 Michigan Avenue Buffalo, NY 14203-2999 (716) 851-7220

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ROLODEX

24-Hour Spill Hotline 1 (800) 457-7362

> REFILL NO. 330 & SB3 PATENTED

SDEC 851-7220 Sal Calmora Environmental Engineer I SAL CILMORA

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SPECIALIZED ASSAYS, INC. 2960 Foster Creighton Drive • Nashville, TN 37204 [800] 765-0980 • [615] 726-0177 • Fax [615] 726-3404	Inc C St Ste 40 2120 Bi Borter Kd Fave Kd	PRODUCT OTHER	X	X		X			IN LIMITS	49 REQUIREMENTS	Leg Sample II			
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	·	Lin	ection hit <sup>111</sup> pb)	TCLP Extraction Guidance Value <sup>121</sup>	TCLP Alternative Guidance Value	Human Health Guidance Value	Va	ment ance lue ppb}
Compound	EPA Method	Liquid	Solid	C <sub>w</sub> (ppb)	C <sub>a</sub> (ppb)	С <sub>ћ</sub> (ррb)	Fresh (	Marine
Benzene	8021 (8020)	1	2	0.7	14	2.4 x 10 <sup>4</sup>		
Ethylbenzene	8021 (8020)	1	2	5	100	8.0 x 10⁵		
Toluene	8021 (8020)	1	2	5	100	2.0 x 10 <sup>7</sup>		
o-Xylene	8021 (8020)	2	2	5	100	2.0 x 10 <sup>8</sup>		
m-Xylene	8021 (8020)	2	2	· 5 :	100	2.0 x 10 <sup>8</sup>		
p-Xylene	8021 (8020)	2	2	5	100.	•••		
Mixed Xylenes	8021 (8020)	2	2	5	100-	2.0 x 10 <sup>8</sup>		
Isopropylbenzene	8021	1	1	5	100	•••	•	
n-Propylbenzene	8021	1	1	5	100	•••		
p-isopropyitoluene	8021	1	1	5	100	•••		
1,2,4-Trimethylbenzene	8021	1	1	5	100	• • •		
1,3,5-Trimethylbenzene	8021	1	1	5	100	•••		
n-Butylbenzene	8021	1 -	1	5	100	•••		
sec-Butylbenzene	8021	1	1	5	100	***		
t-Butyl benzene	8021	1	1	5	100	•••		
Naphthalene <sup>(3)</sup>	8021 (8270)	1 {6}	1 (330)	10	200	3.0 x 10 <sup>5</sup>		
Anthracene	8270	8	330	50	1,000	2.0 x 10 <sup>7</sup>		
Fluorene	8270	8	330	50	1,000	3.0 x 10 <sup>6</sup>		
Phenanthrene	8270	22	330	50	1,000			
Pyrene	8270	8	330	БÓ	1,000	2.0 x 10 <sup>6</sup>		
Acenaphthene	8270	8	330	20	400	5.0 x 10 <sup>6</sup>		
Benzo(a)anthracene	8270	31	330	.002	.04(4)	220	33	18
Fluoranthene	8270	9	330	50 .	1,000	3.0 x 10 <sup>5</sup>		

# TABLE 2

(CONTINUED ON THE NEXT PAGE)

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(B=2)

	•	Detection Limit (ppb)		TCLP Extraction Guidance Value <sup>(31</sup>	TCLP Alternative Guidance Value	Human Health Guidance Value	Sediment Guidance Value C <sub>s</sub> (ppb)	
Compound	EPA Method	Liquid	Solid	C <sub>w</sub> (ppb)	C <sub>s</sub> (ppb)	C <sub>h</sub> (ppb)	Fresh	Marine (
Benzo(b)fiuoranthene	8270	19	330	.002	.04(4)	220	33	18
Benzo(k)fluoranthene	8270	10	330	.002	.04 (41)	220	33	18
Chrysene	8270	10	330	.002	.04(4)	•••	33	18
Benzo(a)pyrene	8270	10	330	.002	.04(4)	61	33	18
Benzo(g,h,i)perylene	8270	10	330	.002	.04(4)	•••		
Indeno(1,2,3-cd)pyrene	8270	10	330	.002	.04(4)	•••		
Dibenz(a,h)anthracene	8270	10	330	50	1,000	14		

TABLE 2 (Cont'd) Guidance Values for Fuel Oil Contaminated Soil\*

\* Nuisance Characteristics Guidance:

No Petroleum-type odors.

No individual contaminant in soil at greater than 10,000 ppb.

- <sup>(1)</sup> The listed Detection Limits are Practical Quantitation Limits (PQL's). The Method Detection Limit (MDL) is the best possible detection. Laboratories report the Practical Quantitation Limit (PQL), which is generally 4 times the MDL. Efforts should be made to obtain the best detection possible when selecting a laboratory. When the Guidance Value or standard is below the detection limit, achieving the detection limit will be considered acceptable for meeting the Guidance Value or standard.
- <sup>121</sup> The TCLP Extraction Guidance Values are equal to the NYSDEC groundwater quality standards or Guidance Values, or the NYSDOH drinking water quality standards or Guidance Values, whichever is more stringent.
- <sup>(3)</sup> For naphthalene analysis in a liquid matrix, both Method 8021 and Method 8270 can provide satisfactory levels for comparison to the  $C_{w}$  of 10 ppb.

For naphthalene analysis in a solid matrix, Method 8021 is preferred over Method 8270 for comparison to the C<sub>a</sub> of 200 ppb. If the C<sub>a</sub> Guidance Value is not being used in the soil evaluation, then both Method 8021 and 8270 can provide satisfactory detection levels for comparison to the C<sub>b</sub> of 3.0 x  $10^5$ , and nuisance characteristic of 10,000 ppb.

<sup>[4]</sup> Due to the high detection limit for a solid matrix, the TCLP Extraction. Method must be used to demonstrate groundwater quality protection for these compounds.

\*\*\* No Guidance Value identified in EPA HEAST Report.



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2960 Foster Creighton Dr. P.O. Box 40566 Nashville, TN 37204-0566 Phone 1-615-726-0177

SVERDRUP CIVIL, INC 7212 ROBERT GRIBBEN 575 S. CHARLES ST, STE 404 BALTIMORE, MD 21201

Project: 000223-D04 Project Name: NIAGRA FALLS USARC(1) Sampler: ROBERT GRIBBEN ANALYTICAL REPORT

Lab Number: 79-A144500 Sample ID: NFAC-ES-S-00 Sample Type: Soil Site ID:

Date Collected: 9/21/99 Time Collected: 11:30 Date Received: 9/22/99 Time Received: 9:00

			Report	Quaa	Dil					
Rnalgte	Result	Upits	Linit	Lisit	Factor	936Q	Tine 	Analyst	lethod 	Katel
AVOLATILE DISGNITCS*										
Acetone	20	114. 8.9	8.0100	8,5100	1	9/26/99	\$:17	R. Kard	82695	7924
Berzene	HT.	ng/kg	0,0078	0.0026	1	9/26/99	8:17	R. Hard	62695	7924
Branobenzene	ΧD	ng/kg	6.0829	0.0020	1	9/26/99	8:17	5. 8374	82685	7924
(renuchlorenethane	ND .	ng/kg	8. 0020	0.0020	1	7/26/99	8:17	R. Nore	\$26 <b>0</b> 6	7724
lironoforn	ND (M	ng/kg	0 0020	0.0020	3	9/26/99	8:17	R. Na74	87600	7524
Bronomethage	HD	tige'k g	0.0020	0.0029	1	9/26/99	8:17	R. Bard	83599	7924
2-Butanone	КD	ng/kg	0.3100	0.0100	1	9/26/99	8:17	R. Hard	32698	7929
a-Butglbeazene	ND	ng/kg	0.0020	0.0323	1	9/25/99	8:17	R. Hare	82500	7924
sec-Rutylbenzene	ND.	ng/kg	0.0020	6.0020	1	9/26/99	8:17	E. Hard	62600	7924
t-Nutylbearene	ND	ng/kg	0.0020	0.6020	1	9/26/99	3:17	R. Nard	82608	7924
Caraca disulfide	HD	ng/kg	0.0020	0.0020	1	\$/26/79	8:17	R. Hard	82598	7924
Cerbon tetrachloride	ND CH	ng/kg	0.0020	0.0020	i	9726199	8:17	E. Hard	8250B	7724
Chlorobeszene	NO	ng/kg	0.0828	0.0020	1	9/26/99	8:17	E. Hard	82500	7924
Chloroethane	HD	ng/kg	0. <b>0</b> 520	0.0020	1	9/28/99	8:17	R. Norg	8240B	7924
2-Chlorosthylvingletber	KD	ng/kg	0.0920	8.0020	1	9/26/93	8:17	R. Nard	82608	7724
Chloroforn	RD	rg/83	0.0020	9.0926		- 9/26/99		R. Har'd	82608	7924
Caloromethame	HD	ngʻirg	0.0020	6.8020	1	\$/26/99	8:17	S. Kari	82508	7924
2-Chlorotoluene	50 10	Hg/kg	0. 6020	0.0020	1	9/26/99	8:17	E. Hard	82500	7924
4-Chlorotoluene	HD	HG/X 6	0.0020	0.0023	1	9/26/99	8:17	R. Hard	82800	7924
1,2-Dibrono-3-chloropropane	ND	ну/ку ну/ку	0.0100	0.0100	1	9/26/99	8:17	5. Hert	02600	7929
Dibromochloronethane	HD .	Hg/kg	0.0020	0.0020	1	9726799	8:17	R. Hard	826059	7724
1,2-Dibronoethake	ND CS	મુપ્ર તુરા કુર્ય તુરા	0.0820	0.0020	1	9726799	8:17	R. Sard	72503	7724
Pibrononettase	ND	ng/kg	0.0020	0.0010	1	9/28/99	S: 17	E. Hard	32600	7974
1,2-Dicklorobeareae	ND ND	ng/kg	6.0020	0.0020	1	9/26/99	8:17	n. Harc	82.50B	7924
1,3-Dichlarobeszene	ND ND	ngr 6 g Ngr 6 g	0.0020	0.0020	1	9/26/99	8:17	R. Hard	52600 52600	7924
1,4-Dicblurgeenzepe	ж <b>с</b>	ng/kg	0.0010	0.0020	1	9726799	5:17	r. Həre	67693	7924
Dichlorodifluoromethane	20 20	ng/kg	0.0020	0.0020	1	9/26/99	5:17 5:17	r. Hard R. Hard	67.688 52.698	7924
1,1-Bichioroethane	NE	ngrkg Ng/kg	0.0020	0.0020 9.0020	1	9/26/97	8:17	R. Hard	82668 82668	7924
1,2-Dichlopsethine	ж.	ngrkg Ng/kg	0.0020	0.0028	1	9/26/99	8:17	т. нася 5. Ноха	62.600 62.600	7924
1,1-Dichlurgethese	80	ng/kg	0.0020	0.0020	1	9/25/99	8:17	r. Hərd E. Nərd	82.668 82.608	7924
cis-1.2-Dictiororthese	80 80	ngrng	0.0020	0.0025	1	5/26/99	6:17 8:17	r. Hard	62605	7924
trans-1,2-Dichloroftheac	27 23	nyrny Nyrny	0.0020	0.0020	1	9724/93 9724/93	5.17 8:17			7924
1,2-Dicklorepropage	nd ND	ngeng ngeng	0-0620	0.0025 9.0025		9726799 9726799	·.,	R. 8470 R. 8470	62.600	7924
1,3-Dichleropropa <del>n</del>	nd ND	ryrry Tyrrg-	0.0020	8.0020 8.0020	1	9726799	B: 17 8: 17	R. Karé – R. Karé –	82690 82608	(724 7924
2,2-Dickloropropens	82) 83)	HQ/KG Ng/KG	0.0020	0.0020 0.0020	1	77 207 3 3 7/76/33	8:1? 8:17	r. Hard R. Hard	02000 32608	7924 7924

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#### ANALYTICAL REPORT

Laboratory Number: 97-A144500 Sample ID: NFAC-E8-5-02

Page 2

			Report	Ritan	Dil					
Analyte	Besult	Brits	Limit	Linit	Factor	Pate	ine	Analyst	Rethod	Batol
1,1-Dichloropropese	አው	ng/kg	Q. <b>002</b> 9	0. 0020	1	9/26/99	8:17	R. Hard	82650	7924
cis-1,3-Dickloropropra	XC A	ng/kg	0.0020	0.0020	1	5/26/79	8:17	r. Hapó	52690	7924
trans-1,3-Vichloroprepene	ND ND	લપુર હયુ શહુર હયુ	R. 6526	0.0020	1	9725/99	8:17	R. Karu	52600 52600	7924
Ethylbenzene	ND ND	rig: 29 HG/Ky	0.0020	0.0020	1	7/16/99	8:17	R. Nard	91640 87699	
Nexachlorobutadiene	K0	89/Kg 89/Kg	0. 8020 0. 8020	0.0010	7.	9/26/99	6:17	r. Hars	82608	7724 7524
2-Hexaasse	жD	મહુત હતુ મહુત હતુ	0.0193	0.0020 0.0100	ĩ	9/26/99	8:17	ri. Maru R. Kard	02.000 32.608	7924
l nexadure Isopropylbeszene	NC NC	ngr v.g Ng/kg	0.0130 0.0020	0.0020	1	9/26/99	8:17	r. Horu B. Hord	37.600 37.608	7924
4-Isopropyltoluene	80) 80)	ng/kg tg/kg	0.0020	0.0020	1	9/26/99	8:17 8:17	Б. <b>К</b> ара	6260B	7524
4-Nethul-2-peotzaooe	ND ND	ngeng ng/kg	6. 0196	0.0010 0.0100	1	9/26/79	8:17	R. Kard	82608 82608	7924
9 nechgi 2 procender Nethglane chloride		ng/kg	6. <b>619</b> 6	0.0100	1	9/26/99	8:17			
Naphthalene		•						R. Hard	82600 52400	7925
n-Propylbenzene	ku Nd	tig/kg	0.0020 0.0620	0.0029 0.0020	1	9/26/99 9/26/99	8:17	R. Hard	5260B	7924
sterene		ng/kg			1		3:17	8. Nard R. Nard	82600 02600	7924
•	ND ND	ng/kg	0.0020	9.0029	1	9726799	8:17	彩. Sard S. Nard	8260B	7524
1,1,1,2-Tetrachloroethane	80 80	H <b>y</b> /kg	0.0020	8.0029	1	9/26/97	8:17	R. Hard	82680	7924
1,1,2,2-Tetrachloroethane Tetrachloroethene	80 87	<b>મહુ</b> /દિદ્ 	8.8920 6.8920	8,0920	1	9/26/99	8:17	R. Hard	82609	7924
	XD XD	ng/kg	9.0029	0.0020	ī. •	9/26/99	8:17	R. Ward	82608	7924
	ND ND	Hy/kg	0.0020	0.9020	1	9726799	9.17	R. Hard	87508	7924
1,2,3-Trichlorokenzese	XD ND	ng/Xg	0.0020	0.0020	1	9/26/99	8: 17	B. Rard	82500	7924
1,2,4-Trichlarobeazeae	32	Ky/ky	0.0020	0.0020	1	9/26/99	8:17	R. Hard	8269B	7924
1,1,1-Trichloroethage	HD ND	ng/kg	0.0020	0.0020	1	9/26/99	8:17	r. Hərd	62490	7924
1,1,2-Trichloroethage	XE.	ng/kg	0.0020	0.0020	1	9/26/99	S: 17	R. Hərd	62608	7924
Trickloroethene	0.0476	ng/kg	0.0020	0.0020	1	9726/99	8:17	B. Hard	826010	7924
1,2,3-Trichlorogropane	9D	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Hard	62608	7\$24
1,2,4-Trinethylbenzene	238	ng kg	0.0020	0.0020	1	9/26/99	8:17	R. Nará	026 <b>0</b> 8	7924
1,3,5-Trinethyldenzene	nd	ng/kg	0.0020	0.0020	1	- 9/26/79		R. Nar'd	32408	7920
Visyl chloride	斑	89/kg	0.0020	9.0023	1	9/26/79	8:17	r. Həfd	82600	7924
Xylenes	нd	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Hord	82508	7924
Brunodichloromethame	Я¢	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Hard	82306	7924
Trichlorofluoronethaae	nd	ng/kg	0.0020	0.0020	1	9726799	8:17	R. Hard	\$260D	7924
*PESTICIDE/PCP'S/NERDICIDE										
Aroulor 1618	ND.	rg/xy	0. 0200	0.0200	1	9/25/99		Carnickael	8882	9365
Arocler 1221	ND	ng/k g	0.0209	0.0200	1	9/25/99	15: 32	Carnicaael	2032	9335
Arecler 1232	NC .	ng/kg	0. 6206	0.0200	1	9/25/99		Carmichael	8032	9335
Aroclar 1242	ND.	ng/kg	0. 8260	8.0200	1	9/25/99	15: 32	Carnicbael	8082	9335
Aroslor 1248	祀	ng/kg	0.0200	0.8200	1	8725/99	15: 32	Carrichael	6662	9335
Arocler 1254	HD	ng/kg	0.8200	0.9200	1	8725/99	15: 32	Carnichael	8087	9335
Broclor 1260	мD	ne/kg	8.0200	0,0200	1	9725799	15: 32	Carnichaeli	508Z	7335
NGENERAL CHENISTRY PARAMET	ERSX									
Reactive Cyanide	89 87	ng/kg	2.0	2.0	. 1	9/28/79	13:80	CHollings	512-646	1302
Reactive Sulfide	K0	ng/kg -	28.0	20.0 🌫	1	9/28/99	15:00	CHolliggs	34-846	1382
Corresivity	NET CORRES					9/23/95	18: 35	McFarland	1110	8562
Ignitability	Not Lagitz	ble up to	208 F			9/29/99	34-57	5. Brener	10102	7956

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#### ANALYTICAL REPORT

Laboratory Number: 99-A144500 Sample ID: NFAC-ES-5-03

Page 3

TCLF Results

			1	Natrix Spike		
Aaalgte	Result	Units	Reg Linit	Recovery (%)	pate	Netbos
and any any division was not any set of a set of						
Brsesio	< 0.18	.ng/1	5.0	107	8/30/99	60100
Rarium	1.18	ng/1	100	<b>5</b> 3	\$/30/99	62100
Comiton	< 0.100	ng/3	1.0	101	9/30/99	é <b>010</b> 8
Chronius	( 0.58	Hg/1	5.0	93	9/30/99	60100
read	4 0.500	mg/1	5.0	105	9/30/99	6016K
Nercurg	< 0.910	ng/1	0.20	107	9/27/99	7470A
Seleaiss	< 0.199	Hg/1	1.0	108	\$730799	60108
Silver	< 0.10	H§/1	5.0	87	9/36/99	6010D
TCLP Extraction	Initiated	3			9/22/99	1311
				· •		

HD = Hot detected at the report limit.

Flash poist/ignitability reported to the nearest 10 deg F.

Sample Extraction Data

 Vi/Vol

 Parameter
 Vi/Vol

 Parameter
 Extract Vol

 Date
 Amalyst

 Method

 PED's
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ANALYTICAL REPORT

Laboratory Number: 99-A144500 Sample ID: NFAC-E5-S-03

Page 4

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Report Approved By:

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COPY 3

Report Date: 5/30/99

Theodore J. Duello, Ph.D., Lab Director Richael H. Dunn, R.S., Technical Director Johnny A. Mitchell, Dir. Technical Services Eric Saith, Assistant Technical Director Sail A Lage, Technical Services

Laboratory Certification Number: 11342



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SVERDRUP CIVIL, INC 9212 ROBERT GRIBBEN 575 S. CHARLES ST, STE 404 BALTIMORE, MD 21201

Project: 000223-D04 Project Name: NIAGRA FALLS USARC(1) Sampler: RDEERT GRIBBEN ANALYTICAL REPORT

Lab Number: 99-A144501 Sample ID: NFAC-SN-5-04 Sample Type: Soil Site ID:

Date Collected: 9/21/99 Time Collected: 11:30 Date Received: 9/22/99 Time Received: 9:00

fiaalyte	Result	Units	Report Linit	Ryan Linit	Dil Factor	Date	Tine	Analyst	Rethod	Batel
Acetone	ND	ng/kg	0.0100	0.0100	1	9726799	-8:58	R. Hard	32606	7924
Senzene	ND	ng/kg	0.0020	0.0020	1	9/26/99	8: 53	E. Hard	82608	79Z4
Uronosenzene	HD)	ng/kg	0.0020	0.0070	1	9/26/99	8:58	R. Hard	82666	7928
Broncohloromethane	HD .	ne/ke	0.0020	0.0020	1	9/26/99	8:58	R. Hard	9760R	7924
Bronofern	ND	ng/kg	0.0020	0.0020	1	9726799	8: 58	2. Hard	87 <b>69</b> 10	7924
Brononethane	ND CH	ng/kg	5. 0025	0.0620	1	9/26/99	8:58	R. Hard	826 <b>0</b> %	7924
2-Eutanone	ND	ng/kg	8,9109	6.0100	1	9/26/99	9: 58	R. Nord	826 <b>0</b> F	7724
n-lutul bearene	ND	ng/kg	0.0820	6, 0820	1	9/26/93	8: 58	R. Nard	37690	7924
sec-Butglbeczene	80	ng/kg	0.9020	8,0020	1	9/26/99	8: 56	R. Hard	82668	7924
t-Butsibenzene	ND	. ngelleg	0.0020	0.0020	1	\$126/99	8:58	2. Hard	82605	7929
Carbon disulfide	ND.	ng/kg	0.0020	6.8020	1	9/26/99	8: 58	R. Hard	87606	7926
Carbon tetrachloride	ND	ng/kg	C. 0020	0.8020	1	9/26/99	8: 58	E. Hard	\$26GD	7924
Chlorobenzene	ND .	ng/kg	0.0020	9.0820	1	9/26/99	8:58	S. Hard	82603	7924
Chloroethase	KD	ng/kg	0.0020	0.0020	1	9/26/99	8:58	8. 4276	\$2500	7524
2-Chlorosthylvinglether	ND	ng/kg	0.0029	0.0020	1	9/26/99	8:58	R. Nard	\$2608	7924
Chloroforn	ND	ny/kg	9.0020	6.0020	1	- 9/26/99		R. Hard	8240B	7924
Chloromethame	80	ng/ky	0.0020	0.0020	1	9/26/99	8: 38	R. Hard	82608	7924
2-Chlorobolueae	HD	ng/kg	0.0928	9.9820	1	9/26/99	8:58	E. Hard	82600	7924
4-Chlorotoluege	<b>HD</b>	ng/kg	8.0020	0.0020	1	9/26/99	8:58	6. Hard	62608	7924
1,2-Dibrono-3-chloropropage	ND	ng/kg	8. 8100	0.0100	1	9/26/99	8: 58	R. Nard	82606	7924
Pibronochloronethane	80	ng/kg	0.0020	6.0029	1	9/26/99	8:58	R. Hard	82608	7924
1,2-Dibromoethage	80	ng/kg	0.0020	0.0020	1	9/26/97	8:58	R. Hard	52685	7924
Pibronenethane	ND	ng/kg	0.0020	0.0020	1	9/26/39	8: 58	R. Hard	82608	7924
1,2-Dichlorobenzene	NO	ng/kg	0.0020	0.0020	ĩ	9/26/99	8:58	R. Nard	32538	7924
1,3-Dichlorobenzene	NO	ng/kg	0.0020	0.0020	1	9/26/99	8:58	R. Nard	8260W	7924
1,4-Dichlorobenzeas	X0	ng/kg	8.0020	0.0020	1	9/26/99	8:58	R. Haré	82600	7924
Dichlorodifluoromethane	ND	#g/Kg	6.0020	6.0020	1	9/26/99	8: 58	R. Nard	82600	7924
1,1-Dichloroetham	NP	ng/kg	0.0020	0.0020	1	9/26/99	8:58	B. Nard	3260N	7923
1,2-Dichloroethame	ND	ng/kg	6.0020	0.0020	1	9/26/99	8:58	R. Hart	3260B	7524
1,1-Dichloroetheme	RO	ng/kg	0.0020	0.0020	1	9/26/99	8: 58	R. Hard	82500	7924
cis-1,2-Dichloroethese	ND	ng/kg	0.0020	0.9026	1	9/26/99	8:58	R. Kard	823 <b>05</b>	7924
trans-1,2-Dicalorostheme	KO	ng/kg	0.0020	0.0020	1	9/26/99	8:58	R. Mard	\$2506	7924
1,2-Dickloropropate	ND	ng/kg	- 8- 8929	8.0029		9/26/99	8:58	R. Hard	732686	7929
1,3-Dickloropropane	ND	ng/kg-	3.6026	6.0020	1	9/25/99	8:58	R. 8224	82608	7924
2,2-Dickloropropage	ND	115/2.9	0.0020	0.0020	1	9/26/99	8:56	R. Rard	\$2500	7924

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#### ANALYTICAL REPORT

Laboratory Number: 99-A144501 Sample ID: NFAC-SN-S-04

Page 2

			Report	Rugi	911					
Auzlyte	Result	Units	Linit	Linit	Factor	Date	Tine	ten lear	nethod	Bato
	W7.		a 0000	= 0 <b>000</b>		0.227.100	<b>D</b> . F.D	R Hand	73/07	7074
1,1-Sichloropropene	ND	::::::::::::::::::::::::::::::::::::::	8.6820 9.8820	0.0020	1	9/26/99	8:58	R. Hard D. Hard	32600	7924
cis-1,3-Dichloropropene	朷	สญ.รีสฐ	0.0020	8.0020	1	9/26/99	8:58	R. Hare	62608	7924
traes-1,3-Dichloropropese	XD ND	ng/kg	9,0020	0.6020	1.	9/26/99	8:58	R. Usrd	82609	7924
Ethylbenzene	25 25	ng/kg	8,0020	0.0020	1	9/26/99	8:58	R. Hard	826 <b>0</b> 8	7924
Herachlorobuczóiene	XD	hg/kg	0.0020	C. 0020	1	5/26/99	B: 5E	R. Hard	82638	7929
2-Rexanose	HE-	ngvikg	0.0100	0.2100	1	9/26/99	8:58	R. Hard	82480	7924
Isopropylbeazere	HU .	ng/kg	0.6729	8,0020	1	9/25/79	8:58	8. Hard	32698	7929
4-Isopropyltoluene	225	ng/kg	0.0020	0.0020	1	9/26/99	8:58	R. Karé	S2408	7924
4-Nethyl-2-pentanose	X0	Hg/kg	0.0100	0.0100	1	9726799	8:58	R. Həfd	2740K	7924
Nethylene chloride	HD	Hg, kg	0.0200	0.0100	1	9/26/99	8:53	V. Kard	37669	7924
Naphthalese	ΧΩ.	ng/kg	0.0020	0.9020	1	3/26/99	8: 58	E. Nard	\$2693	7724
n-Propylhenzeae	ю	Hg/¥g	0.0020	0.0020	1	9/26/99	8:56	R. Hard	82690	7924
Styrene	XD	ng/kg	0.0020	0.0020	1	9/26/93	8:58	R. Hand	32600	7924
1,1,1,2-Tetrachloroethane	ND .	ng/kg	6.0020	0.0620	1	9726799	8: 58	B. Norá	8760K	7724
1,1,2,2-Tetrackloroethane	80	ng/kg	0.0020	0.0020	1	9/26/99	8:58	E. Hard	\$2608	7924
Tetrachloroethene	KD	11g/kg	0,9620	6.0020	1	9/26/99	8:58	ñ. Hard	8260B	7924
Tolwese	HD	ng/kg	0.0026	0.0020	1	9726/99	8: 58	E. Hard	87608	7929
1,2,3-Tricklorobenzese	ND	ng/kg	0.0020	0.0020	1	9/26/99	8: 58	R. Hard	82.608	7924
i,2,4-Trichlorobenzene	KD	ng/kg	9.0020	8.0820	1	9/26/99	S: 56	E. Hard	82608	7924
1,1,1-Trichloroethaac	RD	ng/kg	0.6020	0.0020	1	9/26/99	6:58	R. Hard	6260D	7924
1,1,2-Trichloroethaae	KT/	ng/kg	8.0020	0.0020	1	\$726/99	8:56	R. Hard	82638	7924
Trickloroethene	0.0066	ng/kg	0.0020	0.0020	1	9726799	8:55	n. Hard E. Hard	82609	7924
	80 80			0.8029						
1,2,3-Trichloropropase		ng/kg	0.0920		1	9/26/99	6:58 0:56	R. Hard	3260B	7924
1,2,4-Trinsthylbenzeps	ни MD	ng/kg	8,0920	0.0020	1	9/26/99	8: 56 9: 50	R. Hard	8260B	7924
1,3,5-Trimethylbenzene	ND	ng/kg	0.0626	0.0620	1	- 9/26/99	8:59	R. Hard	82600	7924
Visyl chloride	ND ND	ng/kg	0.0020	0.0020	1	9/26/39	8: 58	R. Hərd	8730R	7924
Xulenes	жD	ng/kg	0.0020	0.0020	1	9/26/99	8:58	B. Kard	8230R	7924
Bronodichloronethane	XD	ng/kg	0.0020	0.0020	1	9/26/99	9: 58	R. Hard	62608	7924
Trichlorofluoronethaae	<b>H</b> D	ngrkg	0.0020	0.0020	1	9/26/99	8:58	R. Hard	62688	7929
NPESTICIDE/PCB/5/HERMICIDE	SK									
Arcelor 1016	ND OX	H9/kg	0.0200	8.0200	1	9/25/99	15:59	Carnichael	8662	7333
Aroclor 1221	ND	ng/kg	0.0206	0.0208	1	9/25/99	15:55	Carniobael	3082	9933
Aroclor 1232	XD.	ng/kg	0.0200	0.0200	1	9/25/99	15:54	Carnichael	3082	9335
Aroclar 1242	ND.	ng/kç	0.0200	8.8298	3	9/25/99	15:54	Carnichael	8382	9335
Aroclor 1248	ND.	ng/kg	0.0203	8.8299	1	9/25/99	15:54	Carnichael	\$982	9335
Areclor 1254	HD.	ngrikg	0.0200	8.0200	1	9/25/99	15:54	Carnichael	8082	9335
Aroclor 1260	XD	Hg/kg	0.0200	0, 0200	1	9725/99		Carnichae]		9335
RECNERAL CHERISTICY PARAMETI	<u> 115</u> 4									
Reactive Cyanide	ND.	ng/kg	2.0	2.8	1	9/26/99	15:00	CHallingse	314-546	1302
Reactive Sulfide	ND	Hg/2g	-26.8 -	20.0 =		9/28/99	e.	CHolliness		1302
Corresivity	NET CORRES					9/23/99		NeFarland	1110	8582
lgkitadility	Not ignita		200 F			9/23/99		S. Brever	10100	8437
÷	t			COPY	0					



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ANALYTICAL REPORT

Laboratory Number: 77-A144501 Sample ID: NFAC-SN-S-04

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Page 3

TCLP Results

	Ratrix Spike									
Avalyte	Result	Units	Reg Limit	Recovery (X)	Date	Sethod				
	an a									
Arsealo	< 8/10	. ng/1.	5.0	167	9/30/99	60108				
Bariun	( 1.00	419/1	168	78	9/30/97	5010F				
Cadmium	< 8, 100	ng/]	1.6	101	9/30/79	60105				
Chronium	( 9, 58	ra/1	5.0	<b>7</b> 8	9/30/79	\$010H				
Lead	< 0.560	HQ/1	5.6	108	\$238793	58108				
Nercurg	0.610	ng/1	0.20	107	9/27/89	7471)a				
Selecium	< 0.139	Na/1	1.8	1115	9/30/99	6010P				
Silver	< 0.16	ng/1	5.0	87	\$730/79	65100				
TCLP Extraction	Initisted	1			9/22/99	1311				

HD = Hot detected at the report limit.

Flash point/ignitability reported to the searest 10 deg F.

 Sample Extraction Data

 Ht/Vol

 Parameter
 Extract Vol
 Date
 Analyst
 Nethod

 FCD's
 30.5 gn
 10.0 ml
 9/23/99
 Fitzuater
 3550

Surrogate	% Recovery	Farget Range
surr-1,2-Dicklorcethame, d4	<b>95</b> .	48 160.
surr-Tcluene d8	118.	79 119.
surr-4-lironofluorobeszene	97.	67 135.
surr-Dibronofluoromethane	111.	63 135.
BCD SUTT-TONN	112.	16 138.
ped surr-PCB	114.	15 130.

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SPECIALIZ ASSAYS, INC.

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ANALYTICAL REPORT

Laboratory Number: 97-A144501 Sample ID: NFAC-SN-S-04

Page 4

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Report Approved By:

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Report Date: 5/30/98

Theodore J. Duello, Ph.D., Lab Director Michael H. Dunn, M.S., Technical Director Johnny A. Mitchell, Dir. Technical Services Eric Smith, Assistant Technical Director Bail A Lage, Technical Services

Laboratory Certification Number: 11342

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### SPECIAL CED ASSAYS, INC.

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SVERDRUP CIVIL, INC 9212 ROBERT GRIBBEN 575 S. CHARLES 5T, STE 404 BALTIMORE, MD 21201

Project: OCO223-DO4 Project Name: NIAGRA FALLS USARC(1) Sampler: ROBERT GRIEBEN 

#### ANALYTICAL REPORT

Lab Number: 99-A144502 Sample ID: NFAC-ES-S-00 Sample Type: Soil Site ID:

Date Collected: 9/21/97 Time Collected: 11:30 Date Received: 9/22/79 Time Received: 9:00

			Eeport	ละเม	Dil					
Aaslyte	Result	Units	Linit	Linit	Factor	Date 	Time	Applyst	Netkod 	Untob
*Organic: Parameters*										
Naphthalese	80	ng/kg	6.155	8, 195	1	9/29/99	12:43	N. Cobb	82760	521 <del>4</del>
Acenapthene	HP.	તપુ: તપુ તપુ: તપુ	0.145	0.165	1	\$/24/99	12:43	a. Cobb	82700	9214
Acthracene	ND ND	ng/xg	0.165	0.165	1	9/24/99	12:43	n. Cobb	S270C	9214
Fluoranthene	HD HD	ng/kg	0.165	8.165	1	7/24/99	12:43	a. Cobb	52700	921.4
Fluoreae	ND	ngakg	9,165	0.155	1	9/24/99	12:43	R. Cobb	G270C	9214
Fyrece	ND:	ng/kg	0.165	0.165	1	9/24/99	12:43	N. Coth	82700	9214
Beazo(a)anthraceae	25	ng/kg	0.165	8.165	1	9/24/99	12:43	R. Cobb	82700	5214
Rezzo(a) pyrese	ND	ng/kg	0.155	S. 165	1	7/24/99	12:43	7. Cobb	82700	5714
Heszo(E)fluerzstbese	20	ng/kg	0.265	8, 165	1	9/24/99	12:43	n. Cobb	\$278C	9214
Begzo(k)Fluoraatheae	RD	HG/K3	0.165	0.165	1	9/24/99	12:43	N. Cobb	6270C	9214
Chrysene	ND	ngrikg	8.165	0.165	1	9/24/99	12:43	n. Cobb	62700	7714
Dibenzo(a,b)anthracene	ND	ng/kg	0.165	0.145	1	9/24/99	12:43	n. Cobb	82760	9714
Indepo(1,2,3-cd)syreae	ND	ng/kg	0.165	0.165	1	9/24/99	12:43	H. Cobb	5278C	9214
Benzo(g,h,i)perylene	ND	ug/ka	0.165	0.145	1	9/24/99	12:43	n. Cobs	82700	9214
Phensothreae	HI)	ng/kg	0, 165	0.165	1	9/24/99	12:43	n. Codb	627 <b>0</b> 0	921.4
WELATILE DEGREGATICS by GCM								·		
Benzene	KD (SA	ng/kg	0.0010	0.0010	1	9/23/99	15:15	T McCollum	36218	9480
a-Butylbenzene	RÐ	ng/kg	0.0318	0.0910	1	9/23/99	15:15	T NcCollum	2021B	9480
sec-Buitglbeazeae	NU	ng/kg	0.0018	0.0010	1	9/23/99	15:15	T McCollum	8021B	9486
tert-Butylbenzene	HD .	ng/4.3	0.0010	9.0010	1	9/23/99	15:15	T McColler	80218	9450
Ethylbenzese	と	Hg/kg	6.001.0	0.0010	1	9723/99	15:15	T NoCollum	80218	9480
Isopropylbenzene	わ	ng/kg	0.0010	0.0001	1	9/23/99	15:15	T McCollum	86215	9460
4-Isopropyltaluene	<b>81</b> 9	ng/xy	0.0010	0.0010	1	9/23/99	15:15	T ReCollum	90216	9480
n-Propylbenzene	ND.	ng/kg	0.0010	5.0010	1	9/23/99	15:15	T NcCollum	80210	9480
Tolvese	RD:	ng/kg	0.0010	8.0010	1	9/23/97	15:15	7 NoCollum	80210	9480
1,2,4-Trinethylbenzene	20	ng/kg	0.0010	0.0010	1	9/23/99	15:15	T McCollum	30218	9435
1,3,5-Trimethylbenzese	ND	nyckg	8.0019	0.0010	1	9/23/99	15:15	7 McCollum	80210	9489
H,p-Xylenes	KD	ng/kg	8,0010	0.0010	ĩ	9/23/99	15:15	T McCollum	80218	9466
8-Xylese	和	ng/kg	0.0010	0.0010	1	9/23/99	15:15	1 DeCollum	80218	7480

HD = Not detected at the report limit.

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#### ANALYTICAL REPORT

Laboratory Number: 97-A144302 Sample 1D: NFAC-E5-S-03

Paga 2

Sample Extraction Data

Paraneter	Nt/Val Extracted	Extract Val	Date	Analyst	Nethod
 Ю%'я		1.0.81	9/23/79	Fitzuater	3559
· · · · · · · · · · · · · · · · · · ·					
Surrogate			% Recovery	Targ	rt Rango
77D C			20	E.	150.
FID Surr., 2,2,2 surr-Mitrodeszer		16	99. 47.		120. 128.
surr-2-Fluorobig surr-Terpheagl (	-		52. 56.		118. 128.
Hall Surr. , ohld	nobleve	•#*	98.	67	- 125.
Hall Surr., 1-of	lero-3-fiverode	nzere	85.	64	1 137.

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Report Approved By:

and A run

Report Date: 9/30/99

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Theodore J. Duello, Ph.D., Lab Director Michael H. Dunn, M.S., Technical Director Johnny A. Mitchell, Dir. Technical Services Eric Smith, Assistant Technical Director Sail A Lage, Technical Services

Laboratory Certification Number: 11342

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# SPECIA! CED ASSAYS, INC.

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SVERDRUP CIVIL, INC 7212 ROBERT GRIBBEN 575 S. CHARLES ST, STE 404 BALTIMORE, MD 21201

Project: 000223-D04 Project Name: NIAGRA FALLS USARC(1) Sampler: ROBERT GRIBBEN Lab Number: 77-A144503 Sample ID: NFAC-SN-5-04 Sample Type: Soil Site ID:

ANALYTICAL REPORT

Date Collected: 9/21/99 Time Collected: 11.30 Date Received: 9/22/99 Time Received: 9:00

			Report	ริษาว	bil					
Analyte	Result	Units	Linit	Linit	Factor	Date	Tine	Analyst	Nethod	Katok
FORGARIC PARAMETERSH										
Naphthalese	ND	ng/kg	0.165	0.135	1	9/24/99	13:21	R. Cods	82790	9714
Acenapthene	路	ngikg	0.165	8,165	1	9/24/99	15.21	N. Cost	02705	9224
Anthracene	HÐ	ng/kg	0.165	8.165	1	9/24/99	13:21	N. Cobb	02795	7214
Fluoraathene	HD	ng/kg	0.157	8. 165	1	9/24/99	13:21	n. Cobb	82700	721.4
Fluorese	25	ng/kg	0.165	0.165	1	9/24/99	13:21	fi. Cost	82700	7714
Purere	ND.	ng/kg	0.165	9,145	1	9/24/99	13:21	n. Cobb	87780	9714
Benzo(a)anthracene	ND	ng/kg	0.165	0.165	1	8/24/59	13:21	N. Cobb	82790	9214
Вевдо (э) ругезе	4D	ng/kg	8.155	0.155	1	5/24/99	13: 71	n Cobb	82700	SZ14
Reazo(b)fluorantheme	短	ng/kg	8.165	0.165	1	9/24/99	13:21	n. Cobb	8270C	9214
Heszo(k)Fluorasthese	NÐ	ny/ky	9.165	8.165	1	9729/99	13: 21	n. Cobb	\$2780	9714
Chrysene	RD	ng/kg	0.165	0.165	1	9/24/99	13:21	H. Cobb	8278C	7214
Bibenzo(a,b)anthracene	HD:	ng/kg	8.165	6.155	1	9/24/99	13:21	n. Cobb	827BE	9214
Indemo(1,2,3-cd)pyreae	KD	ng/kg	0. 145	0.165	1	9/24/99	13:21	n. Cobb	\$2700	9214
Senzo(g,h,i)perglene	き	ng/kg	0,165	0.165	1	\$/24/97	13:22	fl. Cobb	82700	9214
Phenanthrene	RD	ng/kg	0.165	0.165	1	9/24/35	13: 21	n. Cobb	\$270C	9215
*VOLATILE DECANICS by SC*						-		·		
Beazeae	8D	ng/kg	0.0010	0.0010	1	9723799	15:15	T NcCollun	86216	<b>5480</b>
a-Butylbenzene	80	ng/kg	0.0010	0.0010	1	9/23/99	15:15	T McCallur	88218	9400
sec-futulbeszene	HD	ng/kg	0.0010	0.0010	1	9/23/99	15:15	T McCollos	80210	9438
tert-Nutelbenzene	XD	ng/kg	8.0010	0.0010	1	9/23/99	15:15	7 McColles	8671B	9480
Ethylbenzeoe	ne.	ng/kg	0.0010	0.0010	1	9/23/99	15:15	T McCollum	80215	9460
Isopropulbenzene	<b>8</b> £	ng/kg	8.0010	0.0081	1	\$/23/99	15:15	T McCollum	8021B	948C
4-Isopropultoluene	阳	ng/kg	0.6010	0.0610	<u>1</u>	9/23/99	15:15	7 McCollow	80217	9480
n-Propulbenzene	КD	Hg/kg	9.0016	0.9016	1	9/23/99	15:15	T McCollon	85218	748C
Tolvene	AD CK	ng/kg	0.0016	0.0010	1	9/23/99	15:15	T NoCollus	80218	9480
1,2,4-Trinstbylbenzene	RD	ngrixg	8.0016	0.0010	1	9/23/93	15:15	T McCollum	80218	9480
1,3,5-TrinetSubbeszene	ND	ng/kg	6. 8010	0.0010	1	9/23/99	15:15	T McCollum	80718	9480
n,p-Xylenet	商	Hg/kg	8.0019	6.8010	1	9/23/99	15:15	T McCollum	8021N	9430
e-Xylene	影	Hy/kg	0.0010	0. 821.0	1	9/23/99	15:15	7 NoCollon	\$021K	7580

HD = Not detected at the report limit.

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 $\lambda_{\rm eff} = 1$ 

#### ANALYTICAL REPORT

Laboratory Number: 99-A144503 Sample ID: NFAC-5N-8-04

Page 2

Sample Extraction Data

Paraneter	Rt/Vol Extracted	Extract Vol	Date	Auglyst	nethod 
DXX15	29.7 gH	1.8 11	9/23/99	Fitzwater	3550
Surrogate			7. Secovery	Terget	-

PID Surr., 3,3,3-trifluorotolueme	58.	56 156.
surr-Hitrobenzene-d5	56.	20 118
surr-2-Fluorcdiphengl	61.	18 110.
surr-Terphenyl 614	63.	27 128.
Hall Surr., chloroprene	96.	67. <b>- 125</b> .
Hall Surr., 1-chloro-3-fluorobeszene	39.	<b>6</b> 8 137.

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Report Approved By:

Henry A marine

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Report Date: 9/30/99

Theodore J. Duello, Ph.D., Lab Director Michael H. Dunn, M.S., Technical Director Johnny A. Mitchell, Dir. Technical Services Eric Smith, Assistant Technical Director Gail A Lage, Technical Services

Laboratory Certification Number: 11342

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### SPECIA ZED ASSAYS, INC.

2960 Foster Creighton Dr. P.O. Box 40566 Nashville, TN 37204-0566 Phone 1-615-726-0177

#### PROJECT QUALITY CONTROL DATA

#### Matrix Spike Recovery

Aazlyte	units	Urig. Vəl.	83 Vil	Spike Conc	Recovery	Target Bange	Q.C. Batch
Nabytheleve	ng/kg	6 0.165	( 0.165	3, 33	X/A	54 128.	5214
Acesapthese	Ng/kg	( 9.165	1.52	3. 33	<b>4</b> 67	52 128.	9714
Activacene	ng/kg	< D.165	( 0.165	3.33	祝酒	53 132.	9214
Fluor anthene	ng/kg	6 0.165	\$ 8,165	3, 33	8./e	58 139.	7714
Fluorene	NG/KG	< 0.165	\$ \$.185	3. 33	影響	<u> 53 133</u>	9214
Fyreae	ng/ky	0.165	1.62	3.35	47	27 137.	573.4
Denzo(1)anthracene	ng/kg	< 0.165	\$ 0.165	3, 33	8/A	59 120.	7214
Benzo(a)pyrene	ng/kg	6 8, 165	< D. 265	3, 33	876	42 142.	\$214
Renzo(b)Fluoranthene	897Kg	< 0.185	< 8.165	3, 33	N/8	47 128.	9714
Searo(k)fluorantheme	ng/kg	0.165	< 0.165	3,33	8/a	32 146.	\$214
Chrysene	ng/kg	( 0.165	< 0.165	3, 33	N/8	68 132.	9214
Dibeszo(z,b)anthracene	ng/kg	< 8, 145	\$ 8.165	3. 53	- 8/8	51 119	9214
Indeno(1,2,3-cd)pprene	ng/kg	\$ 9,165	( 0.165	3, 33	H/A	53 153.	9214
Benzo(g,h,i)gerulege	ng/kg	< 0.165	< 0.165	3.33	<b>%/</b> 8	58 112.	\$214
Phenaethrese	ng/ke	< 8. 163	< 0.165	3, 33	11/R	87 127.	9214
Denreas	ng/kg	< 0.0920	0.0589	0.0500	107	δ2 14?.	7324
Chlorobeazene	ng/kg	< 0.0020	0.0524	8.0508	165	59 141.	7924
1,1-Dichlorcetheme	ng/kg	< 8,0028	0.0542	0.0500	103	61. ~ 143.	7724
Toluene	ng/kg	( 0.0920	0.0521	0.0500	- 104	57 156.	7924
Trichloroethece	ng/kg	< 0.0020	0.0533	6.0506	107	60 158.	7924
Benzeas	ng/kg	< 0.0010	0.0175	0.5200	96	67 137.	7460
loinese	ng/kg	{ 0.0010	0.0173	0.0200	56	65 139.	9460
n,p-Xglemes	ng/kg	< 0.0010	0.0390	8.6400	<b>9</b> 5	58 136.	9480
Aroclor 1260	ng/kg	€ 0.0200	0.1828	0.1667	115	17 145.	9335

#### Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	879	LixIt	Q.C. Batch
Kaphtbalene	ng/kg	< D. 165	< 8.165	¥/A	15.	9214
Acenapthene	ng/kg	1.52	1.37	8.93	18.	9214
Astbracese	ng/kg	< 0.165	( 0.165	H/A	17.	9214
Fluoranthese	ng/kg	< 0.185	< 0.165	税/ <del>前</del>	15.	9214
Fluoreae	ng/kg	< 0.165	( 0.165	R/P.	16.	9214
Fyrene	Ng/kg	1.62	1.32	20, 41	20.	7214
Reazo(a) aathracene	Hg/kg	< 0.165	< 0.165	R/A	21.	921.4
Beazo( a) pyreae	ngring	4 D. 185	( 0.165	<b>N/</b> A	20.	9214
Benzo(b)fluoranthese	ng/kg	6 8,185	< 0.165	8/A	25.	9214
Denzo(k)Fluoraethene	ng/kg	< 8.165	< 0.165	<b>X/</b> A	43.	9214
Chryseae	ng/kg	< C. 165	< 8.165	<del>N</del> /8	11.	9214
Dibenzo(a,A)anthracene	ng/kg	< 0.165	( 0.165	<b>N/A</b>	37.	\$214
Indeno(1,2,3-od)pgrene	ng/kg	< 0.165	( 8.165	¥/A	43.	9714
Benzo(g,h,i)perglene	ng/kg	< 0.165	( 0.165	8/9	<b>4</b> 6.	7214
Phenaothrone	ng/kg -		< 8.185°	N/A	17.	3214
êr hirene	nglikg	- 0.0533	9.0559	3.14	20.	7525
Chlorobenzene	ng/Kg	6.0324	0.0519	0.96	30.	7924



SPECIA ZED ASSAYS, INC. 2960 Foster Creighton Dr. P.O. Box 40566 Nashville, TN 37204-0566 Phone 1-615-726-0177

#### PROJECT QUALITY CONTROL DATA

Natrix Spike Duplicate

Akalyte	voits	Brig. 401.	Duplicate	7.ªp	Linit	R.C. Batch
1,1-Dichloroethene	ng/kg	8.0542	9.8545	5.18	21.	7924
Tolvene	ng/kg	8.0521	9, 9538	3. 21	23.	7924
Trichloroetions	ngreg.	0.0533	0.0542	1.67	22.	7924
Penzese	ng/kg	0.0193	0.0203	5.65	19.	9480
Tolwene	ng/Rg	0.0193	0.0201	4.06	19.	9430
r,p-Xylenes	ng/kg	0.0390	0.0410	5.00	20.	7489
Aroclar 1259	ng/Kg	0.15ZE	8.1961	1.77	<u>a</u> £.	P335

#### Laboratory Control Data

Realyte	units	Knoun Val.	Analyzeć Vzl	Z Recovery	Target Range	8.C. Bateb
Kaphthaleas	ng/kç	1.67	1.22	73	68 - 140	9214
Acceptione	ng kg	1.67	1.85	63	60 - 149	9214
Rathracena	HQ/Kg	1.67	1.16	69	60 - 140	9214
Fluoranthese	ng/kg	1.67	1.29	77	65 - 140	9214
Fluorene	ng/kg	1.57	1.22	73	60 - 140	7714
Parene	ngring	1, 67	1.35	81	68 - 140	7214
Seczo(a) anthracene	ng/kg	1.67	1.35	81 -	69 - 148	9214
Benzo(a) purene	ng/kg	1.67	1.22	73	68 - 140	925.4
Renzo(b)Fluoranthene	ng/kg	1.67	1.12	67	50 - 140	9214
Senzo(k)fluorantheme	ngikg	1.67	1.48	87	60 - 140	7214
Chrysone	ny/kg	1.67	1.45	87	60 - 140	7714
Dibenzo(z,b)anthracene	ng/ka	1. 57	1.52	91	60 - 140	9714
Indeao(1,2,3-cd)pyrene	Hu/kg	1.67	1.42	85	60 - 140	\$214
Beszo(g,t,1)perglese	ng/kg	1.67	1.42	85	60 - 140	\$214
Phenasthread	ng/kg	1.67	1.19	- 71	60 - 140	7214
Acetone	ng/kg	0.2500	0.4000	160 1	70 - 130	7924
Beazene	ng/kg	0.0500	0.0537	107	70 - 130	7924
Bronobeazeae	ng/kg	0.0500	0.0502	3.80	70 - 130	7929
Bronocalorometaane	ngeng	8. 0500	8.6327	165	70 - 130	7724
Bronoforn	ng/kg	0.0509	8.9512	1.02	70 - 130	7924
Brononethaae	ng/kg	0.0500	0.7589	117	70 - 130	7924
2-Rutasone	ng/kg	0.2500	0.3610	र्यद 🛊	70 - 130	7974
a-intyldenzene	ngikg	0, 6500	0.0531	106	70 - 130	7924
sec-Butglbeazene	ng/kg	6.8509	0.0511	102	78 - 130	7524
t-Sutylbenzene	ng/kg	0. 6200	0.0514	103	76 - 130	7724
Carbon disulfise	ng/kg	0.0500	0.0557	111	70 - 130	7924
Carbon tetrachloride	ng/kg	8, 0568	0.0549	3.10	70 - 130	7924
Chlorobenzene	ngerkg	0.0500	B.0506	101	76 - 130	7928
Chloroethane	ng/kg	6.0506	0.0573	119	76 - 138	7724
2-Chloroethylvinylether	ng, kg	0.2369	0.2723	109	70 - 130	7924
Chloroform	HÇ/KÇ	0.0500	0.0368	113	70 - 130	7924
Chlorowsthana	ng/kg -	6-6599	8:0578	115	70 - 138	7725
7-Chiorotolusae	ng/kg	- 0.0590	9.0500	100	70 - 130	7924
4-Chlorotoluene	ną/kg	0.0500	0.8530	106	78 - 130	7724

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#### SPECIA ZED ASSAYS, INC. 2960 Foster Creighton Dr. P.O. Box 40566 Nashville, TN 37204-0566 Phone 1-615-726-0177

#### PROJECT QUALITY CONTROL DATA

#### Laboratory Control Data

Aralyte	units	Kaoka Val.	Razlyzed Val	% Secovery	Target Runge	R.C. Catch
1,2-Dibromo-3-chioropropane	itg/Kg	0.0500	8.0567	113	70 - 130	7924
Dibronochleromethane	ng/kg	0.0500	0.0515	103	76 - 130	7774
1,2-Dibronoethame	ng/kg.	0.6500	0.0554	171	70 - 130	7324
0ibronomethane	ng/kç	0.0503	0.0532	105	78 - 130	7325
1,2-Dichloropenzene	iig/kg	0.0300	0.0513	103	70 - 130	7724
1,3-bichloroleazene	ng/kg	6.6500	0.0515	103	70 - 130	7924
1,4-bichlorobeazeae	ny ka	0.0590	8.0564	101	70 - 130	7524
Dichlorodifluoromethane	ng/ky	9.6580	0. 8566	113	70 - 130	7924
1,1-Dickloresthage	ng/kg	0.0560	0.0541	108	70 - 130	7774
1,Z-Dickloroethane	mg/kg	0.0500	0.0541	193	70 - 130	7924
1,1-Dichlorostheme	ng/kg	0.0500	0.0547	110	70 - 130	7924
cis-1,2-Dickloroethene	ng/kg	0. 0500	0.0525	105 -	70 - 130	7924
trans-1,2-Bishloroetheae	ng/kg	0.0508	0.0559	108	70 - 130	7924
1,2-Dichloropropase	ng/ky	0.8500	0.0545	110	76 - 130	7974
1,3-Dichloropropase	ng/kg .	0.0500	0. 9534	107	70 - 130	7974
2,2-Dichlorogropase	nw/kg	0.0300	8. 0545	107	70 - 135	7924
1,1-Dickloropropene	ng/kg	6, 0500	0.0554	111	70 - 130	7724
cis-1,3-Bickloropropeae	ng/kg	D. 6589	0.0525	185	70 - 130	7924
trass-1,3-Dickloropropene	ng/kg	2.0500	0.0530	186 -	70 - 130	7924
Ethylbenzene	ny/kg	0.0500	0.0519	104	70 - 130	7924
Hexachlorobytadiese	ng/kg	0, 0500	9.0457	71	78 - 136	7924
2-Hexanone	ng/kg	0.2506	0.3400	136 8	70 - 130	7524
Isopropylbeazeae	ng/kg	0.0500	8.0523	105	76 - 130	7924
-Tsopropultaluene	ng/kg	0.0520	0.0453	99	70 - 130	7524
4-Methyl-2-pentanone	Ng/Kg	0.2309	0. 3190	123	70 - 130	7924
Nethglens chloride	ng/kg	6.0568	0.0545	109	70 - 130	7529
Naphthaleae	ng ke	0.0500	0.0529	166	70 - 120	7924
a-Progulberzeae	ng/kg	0.0500	6.0521	104	70 - 130	7524
Styrese	ng/ky	0.0500	0.0504	101	70 - 130	7924
1,1,1,2-Tetrachloroethane	ng/kg	C. 07560	0.0312	162	70 - 130	7924
1,1,2,2-Tetrachloroethase	ne/kg	0.0506	0.0542	108	70 - 130	7926
Tetracilorosthene	ng/kg	0. 0506	0.0567	101	70 - 130	7924
Tolucae	ng/kg	0.0500	9.0520	184	70 - 130	7924
1,2,3-Tricklorobeszene	Hg/Kg	0. 0500	0.8422	84	70 - 130	7924
1,2,4-Tricklørokepzene	ng/kg	6.0500	0.0396	79	70 - 130	7924
1,1,1-7picklurostkame	ny/kg	0, 0500	0.0563	113	70 - 130	7924
1,1.2-Trichloroethame	ng/kg	0.0500	0.0548	110	70 - 130	7924
Trichloroethene	ng/kg	0, 0500	0.0527	105	70 - 130	7924
1,2,3-Trichlorepropane	ng/kg	6.0500	0.0582	116	70 - 130	7924
1,2,4-Trineibilbebzear	ng/kg	0.0500	0. 0492	78	70 - 130	7524
1,3,5-Trinethylbenzene	ng/ku	0.0500	0.0478	100	70 - 130	7924
Vingi chloride	ng/kg	0.0500	0.0554	111	70 - 130	7924
Xglenes	ng/kg	0.1500	8.1513	101	70 - 130	7123
Brenedichleronathane	na kg –	9-8500	5.11544	139	70 - 130	7724
Trichlorsfluoromethame	Ng/Rg	- 0.0500	0.0563	113	70 - 130	7924
llenzene	ng/kg	0.0200	0.6200	100	70 - 130	7480

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#### SPECIA ZED ASSAYS, INC. 2960 Foster Creighton Dr. P.O. Box 40566 Nashville, TN 37204-0566 Phone 1-615-726-0177

#### PROJECT QUALITY CONTROL DATA

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#### Laboratory Control Data

scalyte	units	Known Val.	Analyzed Val	7 Recovery	larget Bange	Q.C. Batch
a Rubul isana a		C. G200	0.0215	1.00		
a-Butylienzene	rg/kg		0.0215	106	70 - 130	9490
sec-lutylberzene	Hg/Kg	Ŭ. 8203	8.0175	<b>7</b> 3	70 - 138	9480
tert-Butylbeezee	ng/kg -	0,8200	0.0194	\$7	70 - 130	9480
Ethylbenzene	ng/kg	6, 5200	6. 9198	78	71 - 130	9420
Isopropylbeszens	ng/kg	0.0200	0.0195	<b>78</b>	70 - 130	9483
4-Isopropultoluene	tyky	0.0206	8.8268	100	78 - 139	9420
a-Propylbanzeae	หฐะวันฐ	9.0200	0.0173	76	76 - 136	5489
Telvene	ng/kg	8.0200	0.01.97	98	70 - 130	7480
1,2,4-Trinethylbenzese	ng/ky	9.6263	0.8229	110	70 - 130	9490
1,3,5-Trimethylbenzene	ng/kg	0, 8200	0.0Z14	197	70 - 130	7450
n,#-Xglenes	ng/kg	0.0400	0.0388	<del>9</del> 7	76 - 130	9400 <u>.</u>
o-Xyleee	ng/kg	0.6250	0.0191	<b>76</b> -	70 - 130	9460
Arocler 1916	ng/kg	0.1657	0.1578	96	60 - 140	7625
Aroclor 1268	ng/kg	0.1667	8.1978	119	60 - 140	9355

Blank Data

Analyte	Blank Value	Units	R.C. Batch
Kaphthalene	( 8.145	ng/kg	9214
Reenapthene	< 8.165	ng/kg	9214
Anthracena	( 0.165	ng/kg	9214
Fluoranthene	< 0.165	ng/kg	9214
Fluorene	< 0.165	ne/kg	9214
Fyrena	< D. 165	nç/kg	9214
Benzo(a) asthracene	( 0.155	ng/kg	9214
Benzo(a)pyreas	( 0.165	neks	9214
Menzo(b)Fluorantheme	< 0.155	He/Xg	9214
Menzo(k)fluoranthese	( 0.165	ng/kg	5214
Chrysene	( 0.165	ng/kg	9214
Dibenzo(a,h)anthracene	( 0.165	ng/kg	9214
Indepo(1,2,3-od)pyrene	( 0.165	ng/kg	9214
Benzo(g,b,i)perglene	( 0.185	ng/kg	9214
Phenanthrene	( 0.165	no/kg	5214
Arsenic	< 9.18	HQ/1	1615
Carion	( 1.00	ne/3	1615
Cadnium	< 8.100	19/3	1615
Chronium	K 0.50	11g/3	1615
Teaq	< 0.500	ng/3	1615
nercurs	< 0.010	ng/1	8805
Seleaiun	< 0.100	ng/1	1615
Silver	( 0.10	ne/1	1615
Acetone	< 0.0100	ng/kg	7924
Renzers	< 8.0020	ng/kg	- 7924
Kronobenzese	< 8.0020	ne/kg	7924
Promochieromethane	< 0.0020	ng/kg	7324

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### SPECIA ZED ASSAYS, INC. 2960 Foster Creighton Dr.

2960 Foster Creighton Dr. P.O. Box 40566 Nashville, TN 37204-0566 Phone 1-615-726-0177

#### PROJECT QUALITY CONTROL DATA

#### Black Data

Analyte	Blank Volue	Units	S.C. Batch
Bronoform	( 0.0020	ng/kg	7724
Bronomethase	( 0.8920	ng/kg	7924
2-Nutanose	< 0.0100	ng/kg	7924
a-lutylbenzene	( 0.0020	81 <b>6</b> 4 <b>.</b> K g	7924
sec-liviyibeazem	0.0020	ng/kg	7924
t-Hutylbenzene	< C. 0620	нв/кд	7924
Carbon disulfide	< 0.0020	≈g/kg	7924
Carbon tetrachloride	( 0.0520	ng/kg	7729
Chlorokenzene	< 0.0010	Hg/kg	7924
Chloroethace	< 9.0929	kg/kg	7924
2-Chloroethylvinglether	< 9.0620	ng/kg	7924
Chleroform	< 0.0020	ng/kg	7924
Chloronethade	( 0.6628	Hg/kg	7324
2-Calorotoluese	< 0.6020	ng/kg	7924
4-Celoratolsene	< 0.0620	ng/kg	7924
1,2-Dibrons-3-chloroprop	ane ( 0.0100	ne/kg	7924
Dibronachloronethase	4 8,0020	ng/kg	7724
1,2-Dibronoetbane	< 8,0028	ng/kg	7924
Dibrononethane	< 8.0020	ng/kg	7924
1,2-Dichlorobenzene	4 6.0026	Hg/Kg	7924
1,3-Dichiorobenzese	< 8.0020	nerze	7924
1,4-Dichlorobeszese	< 0.0020	Hg/kg	7924
Dicklorodifluoromethase	< 0.0020	ng/kg	7924
1,1-Dichloraethane	<b>(</b> 0.0020	ng/kg	7924
1,2-Dickloreethane	< 0.0020	Hg/kg	7924
1,1-Dichloroetbene	( 0.0020	ng/kg	7924
cis-1,2-Dickloroethene	( 0.0020	ng/kg	7924
traes-1,2-Dickloroethene	( 0.0020	H§/kg	7924
1,2-DickLoropropase	< 0.0020	ng/kg	7924
1,3-Dichleropropage	< 8.0620	ng/kg	7924
2,2-Dichloropropage	< 0.0020	ng/kg	7924
1.1-Dichloropropene	< 8.0020	ng/kg	7924
cis-1,3-Dickloropropene	< 0.0020	ng/kg	7924
trans-1,3-bichloropropen	e ( 0.0020	ng/kg	7924
Ethelberzene	< 0, 2020	ng/kg	7924
Hexachlorobutadiese	< 0.0020	ng/kg	7924
2-Nex anose	< 0.0100	ng/kg	7924
Isopropylbenzene	< 0.0020	ne/kg	7924
4-Isopropyltolvene	< 0.0020	ng/kg	7924
4-Nethyl-2-pentamone	< 0.0100	ng/kg	7924
Methylene obloride	< 8.0020	HG/Kg	7924
Naphthalene	( 0.0020	ng/kg	7924
a-Propylbeszene	( 0.0629	ng/kg	7924
Styrene	< 0.0020	-HG/Kg	- 7924
1,1,1,2-TetrachLoroethan		ng/kg	7924
1,1,2,2-Tetrachlorocthan		ng/kg	7924

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### SPECIA' ZED ASSAYS, INC.

2960 Foster Creighton Dr. P.O. Box 40566 Nashville, TN 37204-0566 Phone 1-615-726-0177

#### PROJECT QUALITY CONTROL DATA

Blank Dota

Asal <u>u</u> te	Blank Aalne	Units	6.C. Batch
Tetrachloroethese	( 0.0020	ng/kg	7924
Toluene	< 0.0820	ng/kg	7924
1,2,3-Tricklorobeszene	( 0.0020	Hg/Kg	7724
1,2,4-Tricklorokeazene	( 0.8828	hg/kg	7924
1,1,1-Trickloroetkame	< 0.0020	HG/RB	7924
1,1,2-Tricklersethame	< 0.0020	ng/kg	7924
Trickloroetheme	< 0.0020	ng/kg	7924
1,2,3-Trickloropropane	< C.082C	Hg/kg	?724
1,2,4-Trimethylbeczene	< 0.0020	ng/kg	7724
1,3,5-Trinstaglbeazese	( 0.0020	Hg/kg	7924
Vissl chloride	< 0.0620	ng/kg	7924
Xylenes	< 0.0020	ng/Kg	7924
Bronodichloromethane	( 0.0020	ngikg	7924
Trichlorofluoromethane	( 0.0020	ngikg	7924
lenze me	< 0.0010	ng,"kg	9480
n-futylienzene	< 0.0310	ng/kg	9480
sec-lutylbenzene	< 8.0010	ng/kg	7480
tert-Butylbenzene	< 0.0010	ну/Кд	9480
Ethylbenzene	( 0.0010	ng/kg	9480
Isopropyldenzene	( 0.0010	ng/kg	9480
4-Isopropyltolueae	< 8.0010	ng/kg	7480
n-Proyylbenzene	< 9.0810	ng/kg	9480
Tolvene	< 0.0010	ng/kg	9480
1,2,4-Trinethylbenzene	< 9.0010	ng/kg	9450
1,3,5-Trinethylbenzene	< 0.0010	ng/kg	9480
n,p-Xglenes	< 0.0010	ng/kg	9490
o-Xylene	( 0.0010	ngika	9480
Aroclor 1016	< 0.6290	ngærg	7335
Araclor 1221	{ 0.0200	ng/kg	8332
Aroclar 1232	< 0.0200	ng/kg	<b>?</b> 335
Arocler 1242	< 0.0200	ng/kg	F335
Aroclor 1248	< 0.0200	ng/kg	9335
Arocler 1254	< 0.0200	ng/kg	9335
Arocler 1260	< 0.6299	หลู/โะ.ชู	9335

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Closure Report Niagara Falls USARC December 14, 1999

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# Appendix D

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## **Post Closure Summary Report**

#### UST-POST CLOSURE SUMMARY

Closure Date: 09/22/99

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Regulatory Authority:	<u>NYSDEC-Region 9</u> <u>270 Michigan Ave.</u> Buffalo, NY 14203-2999
Site Name and Address:	<u>Niagara Falls United States Army Reserve Center</u> 9400 Porter Rd. Niagara Falls, NY 14304
Owner's Name, Address:	<u>Nickolas Christopher-Colonel, DCSENGR</u> <u>AFRC-CNY-EN</u> Fort Totten, NY 11359-1016

(718)352-5624

Tank Size	Tank Mat'l	Tank Product	No. of Samples Taken	Contaminated Soil Disposed (Quantity)	Contaminated Groundwater Disposed (Quantity)	Condition Of Tank
1,000 G	STL-DW	wo	1-GW 1-EF 1-ESW	0	0	G

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Key:

G=Gallons FRP=Fiberglass Reinforced Plastic STL=Steel SW=Single Wall DW=Double Wall WO=Waste Oil and Water mixture EF=Excavation Floor ESW=Excavation Sidewall GW=Groundwater G=Good F=Fair P=Poor

Sample Numbering Key:

The samples are numbered in a format as follows:

AAAA-BB-C-01, where AAAA=Facility identification, BB=Sample type, C=sample matrix, 01=sample number. The following key may be helpful when reviewing sample results: MCAC=McConnell Army Reserve Center ES=Excavation sample SW=Sidewall sample GW=Groundwater S=Soil W=Water

t	•	<b>b</b>						,,								$\bigcirc$							
		RECORD	CUSTONY	Other:		Standard 🙀 3-Day 🖸	TAT ,				NFAC-ES-S-07	NAC-ES-S-CL	NFAC-Gru-W-05	NFACCIV-W05	Field Sample ID	B.C. # 16 1669 (Lab Use Only)	Phone Number	Project Manager.	Facility Location (City, St)	oler Sign/P	Address <u>575</u> Citv Balt	CompanySverdrup	2
	Relinguished by:	Relinquished by:	Ballinguished by Sampler	جر جر جر	Action Column REQUIREMENTS	NYSDEC	SPECIAL DETECTION LIMITS			-	1416 25 2	34 2	33 1	146632 2	SAI Lab# (Lab Use Only) #		0-837-5840	A	11	R TC-1	57 <u>5 S. Charles</u> Baltimore, MD 2	lrup Civil,	Specializer 2960 Foster Creightor [800] 765-0980 • [615]
		/	annover://	Catherine	- PLC 15 LEAD	STARS	N LIMITS				~	×		X	WATER SOIL AIR SLUDGE PRODUCT OTHER HCI	Matrix	Fax Number	Synne	1 Rd	W / / Cohert	St Ste 404	Inc C	Specialized Assays, Inc. 2960 Foster Creighton Drive • Nashville, TN 37204 [800] 765-0980 • [615] 726-0177 • Fax [615] 726-3404
				lerenser	<b>1</b> ,					-	×	X	X		HOI HNO, H,SO, NaOH ICE UNPRESERVED OTHER (SPECIFY)	Method Preserved	er 410-837		Nigging Fails	<u>ן</u> וּדָן ב	4 Zin	Client Number	NC. N 37204 26-3404
14.0	Date	Date	9-21.79	(to insure correc	SAI PROJECT		REMARKS								DATE - TIME	Sampling	7-3277		5	A-Dou		9212	
	TIme	Time	J:30 MM	(to Insure correct Analysis and Billing)	or QUOTE NU											Grab C= ( MTBE C PE C MASS	60 802			her			
	Received by: Laboratory	Received by:	Received by:	<sup>w</sup> NA	MBER											8.1 D TX rease 413 907	3.1 D 70/1 D	0 16 Oth	64 🗆 ier 🗅	)			
	AN.		-				ľ								Purgeable Purgeable Lead 60 <sup>-</sup> PAH (GC, PAH (HPL	Aromati 10 🗔 20 GC/MS)	ics 20.7 🗅 610 🗆	602 Oth 0 625	2 🗆 8 Ner 🗅 1 81			ANALYSI	
24 ,	Burly /			Airbill Number	Temperature		-								Metals VOA 624 Extractab	PP 82 108 108 10 8, Organo	RCRA 60 82 8082 <b>bchlori</b>	270 C	TAL [	808			
	प{24/भ३	Date	Date		Received 4						 				Herbicide TCLP Reactivity Flash Poi	s 2,4- Metals D Lead D Con int Close	D, 2,4,5 VO SVO rosivity d Cup		P/ Fu Ignitz		ist 🖸		8B-02258
	Time V∤∶¢c	Time	Time						-		 XX	XX		X	NYSDE	C ST	_	-	1002 27				585

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SPECIALIZED AS. 7S, INC.

2960 Foster Creighton Dr. P.O. Box 40566 Nashville, TN 37204-0566 Phone 1-615-726-0177

ANALYTICAL REPORT

SVERDRUP CIVIL, INC 9212 ROBERT GRIBBEN 575 S. CHARLES ST, STE 404 BALTIMORE, MD 21201

Project: 000223-004 Project Name: NIAGARA FALLS USARC Sampler: ROBERT GRIBBEN, JR. Lab Number: 77-A146632 Sample ID: NFAC-GW-W-O5 Sample Type: Water Site ID:

Date Collected: Time Collected: Date Received: 9/24/99 Time Received: 9:00

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Analyte	Eesult	Units	Linit	Linit	Factor	Date	Time	Analyst	Nethod	Batch
*UDLATILE DREAMICS by GC*										
lienzene	ND	ng/1	0.0010	0.0010	1	9/26/99	8:12	N. Hinelick	80218	48
n-lutylbenzene	0.0124	HG/1	0.0010	0.0010	1	9/26/99	8:12	M. Hinelick	80210	40
sec-Butylbeszese	0.0021	ng/1	0.0010	0.0010	1	9/26/99	8:12	N. Hinelick	80218	40
tert-Butyldenzene	0.0012	Hg/1	0.0010	0.0010	1	9/26/99	8:12	M. Hinelick	80210	40
Ethylbenzene	ND	HQ/1	0.0010	0.0010	1	9/26/99	8:12	M. Hinelick	802110	40
Isopropylbenzene	ND	Hg/1	0.0010	0.0010	- 1	9/26/99	8:12	M. Hinelick	80218	40
4-Isopropultoluese	0.0023	ng/1	0.0010	0.0010	1	9/26/99	8:12	M. Hinelick	80210	40
Haphthalene	0.0175	ng/l	8.0010	0.0010	1	9/26/99	8:12	N.Hinelick	<b>8021</b> B	40
n-Propylbenzene	0.0010	ng/1	0.0010	0.0010	1	9/26/99	8:12	N. Himelick	80218	40
Toluene	КD	HQ/1	0.0010	0.0010	1	9/26/99	8:12	M. Hinelick	802110	40
1,2,4-Trimethglbenzene	0.0069	ng/1	0.0010	0.0010	1	9/26/99	8:12	N. Hinelick	80218	40
1,3,5-Trinethylbenzene	0.0028	ng/1	0.0010	0.0010	1	9/26/99	8:12	N.Himelick	80210	40
H,p-Xylenes	0.0013	ng/l	0.0010	0.0010	1	9/26/99	8:12	N.Himelick	8021B	40
o-Xglene	ND.	нą/1	0.0010	0.0010	1	9/26/99	8:12	ñ.Hinelick	8021B	48

ND = Not detected at the report limit.

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Report Approved By:

Report Date: 10/ 1/99

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Theodore J. Duello, Ph.D., Lab Director Michael H. Dunn, M.S., Technical Director Johnny A. Mitchell, Dir. Technical Services Eric Smith, Assistant Technical Director Gail A Lage, Technical Services

Laboratory Certification Number: 11342





2960 Foster Creighton Dr. P.O. Box 40566 Nashville, TN 37204-0566 Phone 1-615-726-0177

#### ANALYTICAL REPORT

SVERDRUP CIVIL, INC 9212 ROBERT GRIBBEN 575 S. CHARLES ST, STE 404 BALTIMORE, MD 21201

Project: 000223-D04 Project Name: NIAGARA FALLS USARC Sampler: ROBERT GRIBBEN, JR.

Lab Number: 99-A146633 Sample ID: NFAC-GW-W-05 Sample Type: Water Site ID:

Date Collected: Time Collected: Date Received: 9/24/99 Time Received: 9:00

Analyte	Result	Units	Report Limit	Ruan Limit	Dil Factor	Date	Time	Analyst	Nethod	Batch
*Organic Parameters*										
Raphthalene	ЖÐ	Hg/1	0.005	0,005	1	9/28/99	22: 39	D. Fountain	8270C	453
Acenapthese	ЯD	Hg/1	8.005	0.005	1	9/26/99	22: 39	D.Fountain	82700	453
Anthracene	KD	ng/1	0.005	0.005	1	9/26/99	22: 39	D.Fountain	8270C	453
Fluoranthene	0.006	ng/1	0.005	8,005	1	9/26/99	22: 39	D.Fountain	8270C	453
Fluorene	XD	ng/1	0.005	0.005	1	9/26/99	22: 39	D.Fountain	82700	453
Purene	ND	Hg/1	0.005	0.005	- 1	9/28/99	22: 39	D.Fountain	8270C	453
Benzo(a)anthracene	XD	ng/1	0.005	0.005	1	9/26/99	22: 39	D.Fouataia	82700	453
Benzo(a)pyrene	AD.	ng/1	0.005	0.005	1	9/26/99	22: 39	D.Fountain	82700	453
Nenzo(b)fluoranthene	НD	ng/1	0.005	0.005	1	9726799	22: 39	D.Foustain	82700	453
Benzo(k)Fluoranthene	KD	ng/l	8.005	0.005	1	9/26/99	22: 39	D.Fountain	82780	453
Chrysene	HD	ng/1	0.005	0.005	1	9/26/99	22: 39	D.Fouataia	82780	453
Dibenzo(a,h)anthracene	HD-	ng/1	0.005	0.005	1	9/26/99	22:39	D.Fouataia	82700	453
Indeno(1,2,3-cd)pyrene	NO	ng/l	0.005	0.005	1	9/26/99	22: 39	D.Fountain	8279C	453
Benzo(g,h,i)perglene	HD	ną/1	0.005	0.005	1	9/26/99	22: 39	D.Fountain	8270C	453
Phenasthrese	0.006	Hg/1	8,005	8.605	1	9/26/99	22: 39	D.Fountain	8270C	453

ND = Not detected at the report limit.

Sample Extraction Data

Paraneter	Nt/Vol Extracted	Extract Vol	Date	Analyst	Nethod
BNA's	1000 ml	1.0 nl	9/25/99	Fitzwater	3510

Surrogate	% Recovery	Target Range
surr-Hitrobenzene-d5	50.	15 105.
surr-2-Fluorobiphenul	42.	17 110.
surr-Terphenyl d14	16.	10 116.



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#### ANALYTICAL REPORT

Laboratory Number: 99-A146633 Sample ID: NFAC-GW-W-05

Page 2

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Report Approved By:

Report Date: 10/ 1/99

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Theodore J. Duello, Ph.D., Lab Director Michael H. Dunn, M.S., Technical Director Johnny A. Mitchell, Dir. Technical Services Eric Smith, Assistant Technical Director Gail A Lage, Technical Services

Laboratory Certification Number: 11342



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#### ANALYTICAL REPORT

SVERDRUP CIVIL, INC 7212 ROBERT GRIEBEN 575 S. CHARLES ST, STE 404 BALTIMORE, MD 21201

Project: 000223-D04 Project Name: NIAGARA FALLS USARC Sampler: ROBERT GRIBBEN, JR. Lab Number: 97-A146634 Sample ID: NFAC-ES-S-06 Sample Type: Soil Site ID:

Date Collected: Time Collected: Date Received: 9/24/99 Time Received: 9:00

			Report	สีบอก	Dil					
Analyte	Result	Units	Limit	Linit	Factor	Date 	Time	Analyst	Nethod	Ratch 
*Urganic parameters*										
Acenapthene	<b>GK</b>	ng/kg	0.165	0.165	1	9/29/99	7:43	M. Cobb	8270C	1807
Anthracene	ND	Hgrikg	0.165	0.165	1	9/29/99	9:43	N. Cobb	3278C	1807
Fluoranthese	8.79Z	ng/kg	8.165	8.165	1	9/29/99	9:43	M. Cobb	82700	1997
Fluorese	нD	ng/kg	9.165	0.165	1	9/29/99	9:43	fi. Cobb	8270C	1807
₽urene	8.594	itg/kg	0.165	0.155	1	9/29/99	9:43	M. Codb	8270C	1807
Nenzo(a)anthracene	0. 297	ng/kg	8.165	0.165	- 1	9/29/99	9:43	M. Cobb	8270C	1807
Nenzo(a)pyrene	0.297	ng/kg	8.155	8.165	1	9/29/99	9:43	N. Cobb	8270C	1907
Venzo(b)fluoranthese	0.231	ng/kg	0.165	0.165	1	9/29/99	9:43	H. Cobb	8270C	1807
Banzo(k)fluoranthene	0.264	ng/kg	0.165	0.165	1	9/29/99	9:43	N. Cobb	8270C	1807
Chrysene	0.297	ng/kg	0.165	0.165	1	9/29/99	9:43	N. Cobb	8270C	1807
bibenzo(a,h)anthracene	НÐ	HQ/kg	0.135	0.135	1	9/29/99	9:43	N. Cobb	8270C	1807
Indemo(1,2,3-cd)pyrese	0.165	ng/ka	0.165	8.165	1	9/29/99	9:43	H. Cobb	8270C	1807
Benzo(g,h,i)perulene	0.165	ng/kg	0.155	0.165	1	9/29/99	9:43	N. Cobb	8270C	1807
Phenanthrene	0.56i	ng/kg	0.165	0.165	1	9/29/99	9:43	n. Cobb	82700	1887
NUBLATILE DEGRANICS by SCM	E									
Reszene	ND	भू भू भू भू भू	0.0010	0.0010	1	9/27/99	15: 32	T McCollum	80210	1620
n-Autylbenzene	0.0046	Hg/kg	0.0010	0.0010	1	9/27/99	15: 32	T NcCollum	80210	1620
sec-Butulbenzene	0.0022	Hg/kg	0.0010	0.0010	1	9/27/99	15: 32	T NcCollum	80218	1620
tert-Butylbenzene	XD	ng/ka	0.0010	0.0010	1	9/27/99	15:32	T McCollum	80218	1620
Ethylbenzene	ND	ng/kg	0.0010	0.0010	1	9/27/99	15:32	T NcCollum	60218	1620
Isopropylbenzene	0.0011	ng/kg	8.0010	0.0001	1	9/27/99	15:32	T McCollun	80218	1620
4-Isopropultoluene	0.0024	ng/kg	0.0010	0.0010	1	9/27/99	15:32	T NcCollum	80218	1620
Xaphthalene	0.0038	ng/kg	8.0010	0.0010	1	8/27/99	15:32	T NcCollum	80216	1628
a-Propylbenzene	HD-	ng/ka	0.0010	0.0010	1	9/27/99	15:32	T NcCollum	8021B	1620
Toluene	ND	ng/kg	0.0010	0.0010	1	9/27/99	15:32	T McCollum	80218	1620
1,2,4-Trinethylbenzene	0.0024	ng/kg	0.0010	0.0010	1	9/27/99	15: 32	T NcCollum	80218	1620
1,3,5-Trimethylbenzene	0.0022	ng/kg	0.0010	0.0010	1	9/27/99	15:32	T McCollum	8021B	1620
n,p-Xylenes	ND	ng/kg	8.0018	8.0010	1	9/27/99	15: 32	T McCollum	8021B	1620
o-Xylene	ND.	ng/kg	0.0010	0.0010	1	9/27/99	15:32	T NcCollum	80218	1620

MD = Mot detected at the report limit.



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#### ANALYTICAL REPORT

Laboratory Number: 97-A146634 Sample ID: NFAC-ES-S-06

Page 2

Sample Extraction Data

	#t/Vol		• •	• . · •	M-46-4
Paraneter	Extracted	Extract Vol	Date 	Analyst	Nethod
BHA's	30.6 gr	1.0_nl	9/27/99	Fitzuater	3550
Surrogate			% Recovery	Target	Range
PIB Surr., a,a,a-tr	ifluorotolue	ae	97.	50.	- 150.
surr-Mitrobenzene-d			40.	20.	- 110.
surr-2-Fluorobiphen	yl		37.	18.	- 118.
surr-Terpheayl d14			54.	27.	- 128.
Hall Surr., chlorop	rene		93.	67.	- 125.
Hall Surr. , 1-chlor	o-3-fluorobe	azene	92.	- 60.	- 137.

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Report Approved By:

Malchell

Report Date: 10/ 1/99

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Theodore J. Duello, Ph.D., Lab Director Michael H. Dunn, M.S., Technical Director Johnny A. Mitchell, Dir. Technical Services Eric Smith, Assistant Technical Director Gail A Lage, Technical Services

Laboratory Certification Number: 11342



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#### ANALYTICAL REPORT

SVERDRUP CIVIL, INC 9212 ROBERT GRIEBEN 575 S. CHARLES ST, STE 404 BALTIMORE, MD 21201

Project: 000223-D04 Project Name: NIAGARA FALLS USARC Sampler: ROBERT GRIBBEN, JR. Lab Number: 97-A146635 Sample ID: NFAC-ES-S-07 Sample Type: Soil Site ID:

Date Collected: Time Collected: Date Received: 9/24/99 Time Received: 9:00

			Report	Quan	Dil					
Analgte	Result	Uaits	Linit	Linit	Factor	Date	Tine	Analyst	Nethod	Batch
XURGANIC PARAMETERSX										
Acenapthene	HĐ	ng/kg	8.165	0.165	1	9/29/99	10:20	N. Cobb	8270C	1807
Anthracene	нd	ng/kg	8.165	0.165	1	9/29/99	10:20	ff. Cobb	8270C	1807
Fluoranthene	0.957	ng/kg	8.165	8.165	1	9/29/99	10:20	R. Cobb	8270C	1807
Fluoreae	ND	ng/kg	0.165	0.165	1	9/29/99	10:20	N. Cobb	8270C	1807
<sup>r</sup> yrene	0.726	ng/ky	0.165	0.165	1	9/29/99	10:20	N. Cobb	8278C	1807
lenzo(a)anthracene	0.396	ng/kg	8.165	0.165	· 1	9/29/99	10:20	N. Cobb	82760	1807
Kenzo( a) pyrene	0. 396	ng/kg	0.165	0.165	1	9/29/99	10:20	M. Cobb	8270C	1807
Benzo(b)fluoranthene	0.264	ng/kg	0.165	0.165	1	9/29/99	10:20	ñ. Cobb	8278C	1807
Nenzo(k)fluoranthene	0.363	Hg/kg	0.165	0.165	1	9/29/99	10:20	H. Cobb	8270C	1807
Chrusene	0.429	ng/kg	0.165	8.165	1	9/29/99	10:20	N. Cobb	8270C	1807
Dibenzo(a,b)anthracene	ЖD	Hg/kg	0.165	0.165	1	9/29/99	10:20	H. Cobb	8270C	1807
Indeno(1,2,3-cd)pyrene	ND	ng/kg	0.165	0.165	1	9/29/99	10:20	M. Cobb	8270C	1807
Benzo(g,h,i)perglene	0.198	ng/kg	0.165	0.145	1	9/29/99	10:20	N. Cobb	8278C	1807
Phenanthrene	0.561	ng/kg	0.165	0.165	1	9/29/99	18:29	N. Cobb	82700	1807
*VOLATILE DEGARICS by GC*	:									
Senzene	ND	ng/kg	0.0010	0.0010	1	9/27/99	15: 32	T McCollum	80218	1620
n-Kutylbenzene	DK	ng/kg	8.8010	0.0010	1	9/27/99	15: 32	T McCollum	8021K	1520
sec-Butylbenzene	ЯD	ng/kg	0.0010	8.0010	1	9/27/99	15: 32	T McCollum	80218	1620
tert-Butglbeazene	NC	ng/kg	0.0010	0.0010	1	9/27/99	15: 32	T NcCollum	80218	1620
Ethylbenzene	ND	ng/kg	0.0010	0.0010	1	9/27/99	15: 32	T NcCollum	8021B	1620
Isopropylbenzene	HD	ng/kg	0.0010	0.0001	1	9/27/99	15: 32	T NcCollum	8021B	1620
4-Isopropyltolueae	ND CH	ný/ky	0.0010	0.0010	1	9/27/99	15: 32	T NcCollum	80218	1620
Haphthalene	HD:	ng/kg	0.0010	0.0010	1	9/27/99	15: 32	T NcCollum	5021B	1620
a-Propulbenzeae	ND	ng/kg	8.0019	0.0010	1	9/27/99	15: 32	T NcCollun	80218	1620
Toluene	ND	ng/kg	0.0010	0.0010	1	9/27/99	15: 32	T McCollum	80218	1620
1,2,4-Trinethulbenzene	ND	Hg/kg	0.0010	0.0010	1	9/27/99	15: 32	T McCollum	8021B	1620
1,3,5-Trimethylbenzene	HD-	ng/kg	8.8810	0.0010	1	9/27/99	15: 32	T NcCollum	80216	1620
n,p-Xylenes	ND	ng/kg	0.0010	0.0010	1	9/27/99	15: 32	T McCollum	80216	1620
o-Xylene	ND	ng/kg	0.0010	0.0010	1	9/27/99	15: 32	T NcCollum	8021K	1620

HD = Not detected at the report limit.



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#### ANALYTICAL REPORT

Laboratory Number: 99-A146635 Sample ID: NFAC-ES-S-07

Page 2

Sample Extraction Data

Paraxeter	Ht/Vol Extracted	Extract Vol	Date	Analyst	Nethod
exa's	30. 3 gn	1.0 nl	9/27/99	Fitzuater	3550
Surrogate			X Recovery	Target	Sange
			······································		
PID Surr., a,a,a-ti	rifluorotolue	ne	97.	50.	- 150.
surr-Mitrobenzene-			47.	20.	- 110.
surr-2-Fluorobipher	en la companya de la companya d		47.	13.	- 110.
surr-Terphenyl d14	-		69.	27.	- 128.
Hall Surr. , chlorog	prese		118.	67.	- 125.
Hall Surr., 1-chlor	ro-3-fluorobe	nzene	138.	67.	- 137.

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Report Approved By:

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Michel

Report Date: 10/ 1/99

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Theodore J. Duello, Fh.B., Lab Director Michael H. Dunn, M.S., Technical Director Johnny A. Mitchell, Dir. Technical Services Eric Smith, Assistant Technical Director Gail A Lage, Technical Services

Laboratory Certification Number: 11342

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#### PROJECT QUALITY CONTROL DATA

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#### Natrix Spike Recovery

Analyte	units	Orig. Val.	Tev SN	Spike Conc	Recovery	Target Range	R.C. Batch
Maphthalene	ng/l	< 0.005	< 0.005	0.100	H/A	26 139.	453
Acenapthene	Hg/1	( 0.005	0.036	0.100	368	58 140.	453
Anthracene	Hg/1	< 0.005	< 0.005	0.100	8/A	60 127.	453
Fluoranthene	Hg/1	< 9.005	< 0.005	0.100	R/A	68 135.	453
Fluoreae	Hg/1	< 0.005	< 0.065	0.190	N/R	68 122.	453
Pyrene	HQ/1	< 8.005	0.041	0.100	414	59 118.	453
Senzo(a) anthracene	Hg/I	< 0. <b>005</b>	< 0.005	0.100	X/A	72 130.	453
Nenzo(a)pyrene	ng/l	< 0.005	< 0.005	0.100	X/A	72 132.	453
Benzo(b)fluoranthene	ng/1	< 0.005	< 0.005	0.100	¥/A	<b>68 135</b> .	453
Benzo(k)fluoranthene	Hg/1	< 0.005	< 0.005	0.100	¥/8	81 133.	453
Chrysene	ng/l	< 0.005	< 0.005	0.100	¥/A	10 180.	453
Dibenzo(a,b)anthracene	r12	< 0.005	< 8.005	0.100	r/a	69 124.	453
Indeno(1,2,3-cd)pyrene	ng/1	< 8.005	< 0.005	0.100	X/A	Z6 143.	453
Benzo(g,h,i)perylene	Hg/1	< 8.005	< 0.005	0.100	¥/A	24 145.	453
Phenanthreae	r1g/1	< 8.905	< 0.005	0.100	<del>8</del> /A	81 111.	453
Renzene	ng/l	( 0.0010	0.0174	0.0200	97	76 122.	40
llenzene	ng/kg	< 0.0019	0.0192	0.0200	96	67 137.	1620
Toluene	ng/l	( 8.0010	0.0195	0.0200	98	74 127.	40
Toluene	ng/kg	< 0.0010	0.0195	0.8280	98	65 139.	1620
H,p-Xylenes	Hg/1	< 0.0010	0.0394	0.0400	98	75 133.	40
H,p-Xylenes	Hg/kg	< 0.0010	0.0432	0.0400	103	58 136.	1620

#### Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	rpd	Linit	Q.C. Batch
Naphthalene	ng/1	< 0.005	< 0.005	¥/A	- 32.	453
Acenapthene	ng/1	0.036	0.039	8.00	15.	453
Asthracese	Hg/1	< 0.005	< 0.005	X/8	14.	453
Fluoranthene	Hg/1	< 0.805	( 0.005	X/A	15.	453
Fluorene	Hg/1	< 0.005	< 0.005	N/A	31.	453
Pyreae	ng/l	0.041	0.043	4.76	8.	453
Benzo(a)anthracene	ng/l	< 0.005	< 0.005	<b>H/A</b>	21.	453
Benzo(a)pyreae	ng/1	< 0.005	< 0.005	X/A	16.	453
Benzo(b)fluorantheae	ng/l	< 0.005	< 0.005	H/A	26.	453
Benzo(k)fluoranthene	ng/1	< 0.005	< 0.005	8/8	30.	453
Carysene	Hg/1	< 8,905	< 8.005	N/A	16.	453
Dibenzo(a,h)anthracene	ng/1	< 0.005	< 0.805	¥/8	38.	433
Indeno(1,2,3-cd)purene	ng/1	< 0.005	< 0.005	N/A	39.	453
Benzo(g,h,i)perylene	Hg/1	< 0.005	< 0.005	8/A	43.	453
Phenanthrene	ng/1	< 0.005	< 0.005	X/A	16.	423
Venzene	ng/l	0.0174	0.0200	3.05	12.	40
llenzene	ng/kg	0.0192	0.0190	1.05	17.	1620
Toluene	ng/1	0.0195	0.0200	2.53	11.	40
Toluene	ng/kg	0.0175	0.6191	2.87	19.	1620
n,p-Xylenes	ng/l	0.0374	0.0407	3.25	12.	40





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#### PROJECT QUALITY CONTROL DATA

Matrix Spike Duplicate

Analyte	units	Brig. Val.	Duplicate	RPD	Linit	R.C. Batch
	~~~~~					
n,p-Xylenes	ng/ky	0.0432	0.0422	2.34	20.	1620

#### Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	R.C. Batch
Acenapthene	ngring	1.67	1.68	181	68 - 140	1807
Anthracene	ng/kg	1.67	1.75	105	60 - 140	1807
Fluoranthene	ng/kg	1.67	1.72	103	68 - 140	1807
Fluoreae	ng/kg	1.67	1.65	<b>99</b>	60 - 140	1807
Pyrene	ng/kg	1.67	1.65	99	60 - 140	1807
Beazo(a)anthracene	ng/kg	1.67	1.72	103	60 - 140	1807
Benzo(a)pyreae	ng/kg	1.67	1.78	107	68 - 140	1807
Renzo(b)fluoranthese	ng/kg	1. 67	1.78	107	60 - 140	1807
Renzo(k)fluoranthene	ng/kg	1.67	1.78	107	60 - 140	1807
Chrysene	ng/kg	1.67	1.88	113	60 - 140	1807
Dibenzo(a,h)antbracene	ng/kg	1.67	1.58	95	60 - 140	1807
Indeno(1,2,3-od)pyrene	ng/kg	1.67	1.45	87	60 - 140	1807
Benzo(g,h,i)perglene	ng/kg	1.67	1.25	75	60 - 140	1807
Phenanthrene	ng/kg	1. 67	1.78	107	60 - 140	1807
Haphthalene	Hg/1	0.050	0.030	60	60 - 140	453
Acenapthene	ng/1	0.050	0.034	\$8	<b>60 - 140</b>	453
Anthracene	ng/1	0.050	0.043	86	60 - 140	453
Fluoranthene	Hg/l	0, 050	0.044	88	<b>SC - 140</b>	453
Fluorene	ng/1	0.050	0.037	74	60 - 140	453
fyreae	Hg/1	0.050	0.044	88	60 - 140	453
Benzo(a)anthracene	ng/1	0.050	0.045	90	60 - 140	- 453
Benzo(a)pyrene	ng/l	6.050	0.042	84	60 - 140	453
Benzo(b)fluoranthene	ng/l	0.050	8.035	70	68 - 148	453
Benzo(k)fluoranthene	Hg/1	0.050	0.064	128	60 - 140	453
Chrysene	Hg/1	0.050	0.043	86	60 - 140	453
Dibenzo(a,h)anthracene	ng/1	0.050	0.051	102	60 - 140	453
Indeno(1,2,3-od)pyreae	mg/1	0.050	0.048	96	60 - 140	453
Benzo(g,h,i)perglene	ng/l	0.050	0.047	94	68 - 140	453
Phenanthrene	ng/1	8.050	0.042	84	60 - 140	453
Reszene	ng/1	0.0200	0.0201	100	70 - 130	48
Beazeae	ng/kg	0.0200	0.0178	<b>9</b> 9	70 - 130	1620
n-Butylbenzene	ng/1	0.0200	0.0205	102	70 - 130	40
n-Butylbenzene	ng/kg	0.0200	0.0217	108	70 - 130	1620
sec-Butylbenzene	ng/1	0.0200	0.0206	103	70 - 130	40
sec-Butylbenzene	ng/kg	0.6260	0.0186	94	70 - 130	1620
tert-Butylbenzene	Hg/1	0.0200	0.0206	103	70 - 130	40
tert-Butylbenzene	ng/kg	0.0200	0.0202	101	70 - 130	1620
Ethglbenzene	Hğ∕1	0.6200	0.0206	103	70 - 130	40
Ethylbenzene	ng/kg	0.0200	0.0225	112	70 - 130	1620
Isopropylbenzene	Hg/1	0.0200	0.0206	103	70 - 130	40

SPECIALIZED AS YS, INC.



2960 Foster Creighton Dr. P.O. Box 40566 Nashville, TN 37204-0566 Phone 1-615-726-0177

#### PROJECT QUALITY CONTROL DATA

#### Laboratory Control Data

Analyte	units	Клоня Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Isopropylbenzene	ng/kg	0. 0200	0.0174	97	70 - 130	1620
4-Isopropyltoluene	ng/1	8.6200	0.0206	183	70 - 130	40
4-Isopropyltoluene	ng/kg	0.0200	0.0186	93	70 - 130	1620
Naphthalene	ng/1	0, 0200	0.0201	100	70 - 130	40
Naphthalene	Hg/kg_	0.0200	0.0203	102	70 - 130	1620
n-Propylbenzene	ng/1	0.6200	0.0206	103	70 - 130	40
n-Propylbenzene	ng/kg	0.0200	0.0194	97	70 - 130	1620
Tolueme	ng/1	0.0200	0.0201	100	70 - 130	40
Toluene	ng/kg	0.0200	9.0200	100	70 - 130	1520
1,Z,4-Trinethylbenzene	ng/1	0.0200	0.0206	103	70 - 130	40
1,2,4-Trimethylbenzene	ng/kg	0.0200	8.0220	110	70 - 130	1620
1,3,5-Trinethylbenzene	ng/1	0.0200	0.0296	103	70 - 130	40
1,3,5-Trimethglbenzene	tig/kg	0.0200	0.0222	111	70 - 130	1620
n,p-Xylenes	ng/1	0.0400	0.0411	103	70 - 130	40
n,p-Xylenes	ng/kg	0.0400	8.9457	114	70 - 130	1620
o-Xglene	ng/1	0.0200	0.0206	103	70 - 130	40
o-Xylene	ng/kg	0.0200	0.0198	99	70 - 130	1620

Blank Data

Analytz	Blank Value	Units	Q.C. Batch
Acerapthene	( 0.165	ng/kg	1807
Aathracene	< 0.165	ng/kg	1807
Fluoranthene	< 0.165	ng/kg	1807
Fluorene	< 0.165	ng/kg	1807
Pyrene	< 0.165	ng/kg	1807
Benzo(a)anthracene	( 8,165	ng/kg	1807
Benzo(a)pyrene	< 0.165	ng/kg	1807
Renzo(b)fluoranthene	< 0.165	ng/kg	1807
Benzo(k)fluoranthese	( 0.165	ng/kg	1307
Chrysese	< 8.165	ng/kg	1807
Dibenzo(a,h)anthracene	< 0.135	ng/kg	1307
Indeno(1,2,3-cd)pyrene	< 0.165	ng/kg	1807
<pre>Benzo(g,h,i)perylene</pre>	< 0.165	ng/kg	1307
Phesanthrene	¢ 0.165	ng/kg	1807
Haphthalene	< 0.005	ng/1	453
Acenapthene	< 0.005	ng/l	453
Anthracene	< 0.005	Hg/]	453
Fluoranthese	< 8,005	ng/1	453
Fluorene	< 0.005	ng/1	453
Pgrene	< 0.005	ng/1	453
(lenzo(a)anthracene	< 0.005	ng/l	453
Nenzo(a) pyrene	< 0.005	ng/1	453
Denzo(b)fluoranthese	< 0.005	ng/1	453
Benzo(k)fluoranthene	< 0.005	Hg/l	453

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SPECIALIZED AS 7S, INC.



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2960 Foster Creighton Dr. P.O. Box 40566 Nashville, TN 37204-0566 Phone 1-615-726-0177

#### PROJECT QUALITY CONTROL DATA

Blank Data

Apalyte	Klank Value	Units	A.C. Batch
Chrysene	< 0.805	ng/1	453
Dibenzo(a,b)anthracene	< 0.005	Hg/1	453
Indeno(1,2,3-cd)pyrene	< 0.005	ng/l	453
Benzo(g,h,i)perglene	< 0.005	H9/1	453
Phenasthrese	< 0.005	HQ/1	453
Benzene	< 0.0010	H\$/1	40
Benzene	< 0.0010	Hg/kg	1620
n-Kutylbenzene	< 0.0010	Hg/1	40
n-Rutylbenzene	< 0.0010	ng/kg	1620
sec-Nutyl benzene	< 0.0010	ng/1	40
sec-Butylbenzene	< 8,8018	ng/Rg	1620
tert-Butylbenzene	< 0.0010	1/21	40
tert-Butylbenzene	< 0.0610	ng/kg	1620
Ethylbenzene	< 0.0010	Hg/1	40
Ethylbenzene	< 0.0010	ng/kg	1620
Isopropylbenzene	< 0.0010	ng/1	40
Isopropylbenzene	< 0.0010	ng/kg	1620
4-Isopropyltoluene	< 0.0010	Hg/1	40
4-Isopropyltoluene	< 0.0610	ng/kg	1620
Kaphthalene	< 0.0010	H9/1	40
Naphthalene	< 0.0010	ng/kg	1620
n-Propylbenzene	< 0.0010	ng/l	40
n-Propylbenzene	( 0.0010	ng/kg	1620
Tolvene	( 0,0010	ng/1	40
Tolvene	< 0.0010	Hg/kg	1620
1,2,4-Trinethylbenzene	< 0.0010	ng/l	40
1,2,4-Trimethylbenzene	< 0.0010	ng/kg	1620
1,3,5-Trinethylbenzene	< 0.0010	ng∕1	40
1,3,5-Trimethylbenzene	< 0.0010	Hg/kg	1620
n,p-Xylenes	< 0.0010	rig/1	40
m,p-Xylenes	< 0.0010	H⊊⁄kg	1620
o-Xglene	< 0.0010	Hg/1	40
o-Xylene	< 0.0010	Hg/kg	1620

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Closure Report Niagara Falls USARC December 14, 1999

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# Appendix E

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# Laboratory Report of Analysis for UST/OWS Contents



SPECIALIZED ASSAYS, INC.

2960 Foster Creighton Dr. P.O. Box 40566 Nashville, TN 37204-0566 Phone 1-615-726-0177

SVERDRUP CIVIL, INC 9212 ROBERT GRIBBEN 373 S. CHARLES ST, STE 404 BALTIMORE, MD 21201

Project: 000223-D04 Project Name: NIAGARA FALLS USARC Sampler: ROBERT G.

ANALYTICAL REPORT

4

Lab Number: 97-A126763 Sample ID: NFAC-TC-P-01 Sample Type: Ground water Site ID:

Date Collected: 8/19/99 Time Collected: 14:35 Date Received: 8/20/99 Time Received: 7:00

Analyte	Result	Units	Report Limit	Ruan Linit	Dil Factor	Date	Tine	Analyst	fietho4	Bato
			**							
HORGANIC PARAMETERS#										
Kaphthalene	XD	ng/1	1.18	8.805	20	8/25/99	1:18	J. Gott	82790	1890
Aceaaptheae	ND	ng/1	1.18	0.005	29	8/23/99	1:18	J. Sott	8279C	187
Anthracene	ЖЪ	ng/1	1.18	0.005	20	8/25/99	1:10	J. Gott	8279C	1894
Fluorasthese	ND	H9/1	1.13	0.005	26	8/25/99	1:13	J. Gott	82760	187
Fluorene	1.63	ng/1	1.18	0.605 -	20	8/25/99	1:18	J. Gott	82790	189
Fyrene	ND	ng/1	1.18	0.005	20	8/25/99	1:10	J. Sott	8279C	187
Senzo(a)anthracene	<b>H</b> \$	ng/1	1.18	0.605	29	8/25/99	1:10	J. Gott	82700	1894
eazo(a)pyrene	80 A.	ng/1	1.18	8.005	20	8/25/99	1:10	J. Gott	8270C	187
Weazo(a)fluoranthese	ND	89/1	1.18	0.005	28	8/25/99	1:10	J. Gott	82790	189
(enzo(k)fluoranthene	ND	Hg/1	1.18	0.005	20	8/25/99	1:10	J. Sott	8278C	187
Chrysene	ND	ng/1	1.15	0.805	28	8/25/99	1:18	J. Gott	8276C	187
Dibenzo(a,h)anthracene	ND	ng/1	1.18 .	8.905	20	8/25/99	1:10	J.Gott	82700	187
Indeno(1,2,3-cd)pyrene	ЖD	Hg/1	1.18	8.005	29	8/25/99	1:10	J. Sott	8270C	187
Acenașthylene	жÐ	Hg/1	1.13	6.605	20	8/25/99	1:10	J. Sott	8278C	187
Senzo(g,à,i)perglene	80	ng/1	1.15	0.005	28	8/25/99	1:10	J. Sott	82700	189
Phenanthrene	3.76	ng/1	1.18	0.005	20	8/25/99	1:19	J.Gott	82700	189
*VOLATILE DRSANICS×										
Acetone	ЖÐ	ng/1	5.000	0.0100	588	8/38/99	7:59	K. Hill	82600	258
Kebrebe	dk	ng/]	1.000	0.0020	508	8/38/99	7:59	K. 9111	82600	758
Bronobenzeae	ND	ng/1	1.000	0.0020	500	8/30/97	7:59	K. Hill	82608	258
Srowochloromethane	ND	ng/1	1.000	0.0820	500	8/30/99	7:59	K.HIII	82688	253
Bronoforn	ND	ng/1	1.000	8.0020	500	8/30/99	7:59	K. Hill	82608	258
irononethane	HD HD	Hg/1	1.300	0.0029	500	8/30/99	7:59	X. H111	82600	258
2-Butanone	80	ng/1	5.000	0.0100	568	8/30/99	7:59	K.Hi11	82608	258
a-Butylbenzene	ND	ng/1	1.000	0.0020	566	8/30/99	7:59	K.Hill	62608	258
sec-Butylbenzene	HD	ng/1	1.000	0.0020	500	8/30/99	7:59	K.Hill	82608	258
t-Rutulbenzene	CK CK	Hg/1	1.000	0.0028	500	8/38/99	7:59	K. H111	82608	253
Carboa disulfida	XD	ng/1	1.000	0.0010	588	8/30/99	7:59	K.Hill	82608	258
Cardon tetrachloride	HD HD	ng/1	1.0000	8.09200	500	8/30/99	7:59	K.HIII	82608	258
Chlorobenzene	ND SI	ng/1	1.000	0.0020	500	8/38/99	7:59	K.Hill	82608	258
Chloroethaae	40 40	ng/1	1.000	0.0020	500	8/30/77	7:59	K.Hill	62608 62608	230
'-Chloroethylvinylether	ND	пу/1 Нg/1	2.500	0.0020 8.0020	500 500	8/30/99	7:57	K. H111 K. H111	82608	258 258
Chloroforn	ND ND	•	1.000	0.0020 0.0020	500 500	8/30/77	7:37	K. H111 K. H111	82600	258
Caloronataana	310 310	Hg/1 +a/7			500 500					258
2-Chlorotoluene	80 80	ng/1 ***/7	1.009 1.000	0.0020 0.0020		8/30/99	7:59	K.H111	82608	258 258
4-Chlorotoluene	no ND	ng/1	1.000	0.0020	500	8/30/99	7:59	K. Hill	82669	208 258



### SPECIALIZED ASSAYS, INC.

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#### ANALYTICAL REPORT

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Laboratory Number: 77-A126763 Sample ID: NFAC-TC-P-01

Page 2

			Report	สียอด	D11	-	-			
Analyte	Result	Upits 	Linit	Limit	Factor	Date 	Tine	Analyst 	Nethod	Kati
1,2-Dibromo-3-chloropropame	882 882	ng/1	5.000	0.0100	500	8/30/77	7:59	K. Hill	82698	258
Dibronochloromethame	XD	X3/1	1.809	0.0020	288	8/30/99	7:57	K. H111	82606	258
1,2-Dibromoethane	XD-	ng/1	1.650	0.0020	200	8/30/77	7:59	X. H111	82688	256
Dibrononetàzae	ND	ng/1	1.000	0.0020	580	8/38/99	7: 39	K. H111	87600	753
1,2-Dichlorobenzene	ND .	39/1	1.986	0.6029	500	8/38/99	7:57	8. Bill	87603	758
1,3-Dichlorobenzene	ND:	ng/1-	1.860	0.0929	500	.8/30/99	7:59	K. Hi11	82608	258
1,4-Dichlorobenzene	HD	ng/1	1.808	0.0020	288	8/36/99	7:59	X. Hill	82600	258
DichlorodiFluoromethame	ND	89/1	1.000	0.0020	588	8/38/99	7:59	K. H111	8250B	758
1,1-Dichloroethame	ND.	Hg/1	1.000	0.0020	500	8/30/99	7:59	K. H111	8260B	258
1,2-Dichlorsethame	XD CK	ng/1	1.000	9.0020	568	3/30/99	7:59	K. H111	8760B	258
1,1-Dichloroethese	ND	Hg/1	1.000	0.0020	500	8/30/99	7:59	K. H111	8260B	258
ois-1,2-Dichloroetheme	ND CK	ng/1	1.000	0.0020	588	8/30/99	7:59	K. H111	8260B	253
trans-1,2-Dichloroethene	HD.	ng/1	1.860	8.0020	560	8/38/99	7:59	K. H111	8260B	Z59
1,2-Dichloropropase	ND .	HQ/1	1.000	0.0020	500	8/38/79	7: 57	K. H111	32508	258
1,3-Dichloropropane	ND-	ng/1	1.060	0.0020	509	8/30/77	7:57	K. H111	82608	258
7,2-Dicaloropropase	926	ng/1	1.000	8.0020	500	8/30/99	7:39	K. H111	82608	258
,1-Dichloropropeae	ND	ng/1	1.000	0.0020	200	6/30/99	7:59	K. H111	8260B	258
cis-1,3-Dicalaropropese	ND	ng/l	1.000	0.0020	588	8/30/99	7:59	X. H111	82600	258
trans-1,3-Dichloropropese	XD	Hg/1	1.800	0.0620	500	8/30/99	7:57	X. H111	82608	258
Ethylbenzene	ND	ng/1	1.690	0.0020	300	8/30/79	7:37	K. H111	8260R	258
Hexachlorodutadiene	жо ЭК	ng/1	1.000 .	8.0820	500	8/30/99	7:59	K. H111	82608	252
2-Hexanone	XD	ng/1	5.960	0.0100	500	8/30/99	7:59	K. Hill	82600	258
Isopropylbeazene	NB	ng/1	1.000	0.0020	500	8/30/99	7:39	K. H111	82685	252
4-Isopropyltoluene	ND QK	Hg/1	1.000	8.0020	580	8/30/99	7:57	K. Hill	82608	254
4-Nethyl-2-pentanone	ND	+	5.000	0.0100	500	8/30/99	7:59	K. Hill	82608	250
Rethylene caloride	ND ND	ng/1	5.000	0.0100	560	8/38/99	7:59	K. HIII	82600	250
Naphthalese	7.100	ng/1	1.000	0.0020	508		7:57	K. Hill	82601	230 Z38
•		нg/1				8/38/99			•.	
n-Propylbenzene	ND ND	ng/1	1.000	0.0020	500	8/30/99	7:59	K. H111	82608	258
Styrene	ND	Hg/1	1.998	0.0020	560	8/30/99	7:59	K. H111	8260B	<b>Z</b> 38
1,1,1,2-Tetracaloroethane	ND	ng/1	1.000	8.0020	500	8/30/99	7:59	K.H111	82688	251
1,1,2,2-Tetrachloroethame	HD HD	Hg/1	1.000	0.0020	580	8/30/77	7:59	X. H111	82608	258
Tetrachloroethene	89	ng/1	1.000	8.6829	580	8/30/99	7:59	X. H111	82506	252
Toluene	ND	Hg/1	1.000	0.0020	500	8/30/99	7:59	K. H111	82608	25
1,2,3-Trichlorobenzene	ND	ng/1	1.000	0.0020	500	8/30/79	7: 59	K. Hill	82608	258
1,2,4-Trichlorobenzene	325 215	ng/1	1.000	0.0020	500	8/30/99	7:59	K.H111	8260B	251
1,1,1-Trichloroethane	HD	ng/l	1.000	0.0929	589	8/30/99	7:59	K.H111	8260B	250
1,1,2-Trichloroethaae	XD.	Hg/1	1.000	0.0020	500	8/38/99	7:59	x. Hill	82698	258
Trichloroethene	HD .	ng/1	1.000	0.0020	560	8/38/99	7:59	K. H133	8260B	<b>2</b> 54
1,2,3-Trichloropropane	HD CH	ng/1	1.900	0.0020	500	8/39/77	7:59	K. H111	82600	251
1,2,4-Trimethglbenzene	25	ng/l	1.080	0.0920	500	8/30/99	7:59	K.HIII	8260B	258
1,3,5-Trimethylbenzene	ND CH	Hg/1	1.000	0.0020	568	8/30/99	7: 37	K. H111	82600	25
'ingl chloride	ND	Hg/1	1.000	9, 8829	560	8/30/79	7: 57	X. H111	82608	25
Xylenes	25	ng/1	1.809	0.8020	5330	8/30/77	7:59	K. HI11	82608	25
Frenodichloromethane	ND	ng/1	1.000	0.0020	500	8/30/99	7: 59	K. 8111	82600	23
Tricklorofluoromethame	ND:	ng/1	1.000	0.0020	559	8/36/99	7:59	X. H111	82508	257



**SPECIALIZED** ASSAYS, INC. 

Nashville, TN 37204-0566 Phone 1-615-726-0177 د من من ال

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#### ANALYTICAL REPORT

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Laboratory Number: 97-A126763 Sample ID: NFAC-TC-F-01

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#### Fage 3

			Report	ลียวล	Dil					
Analyte	Result	Uaits	Linit	Linit	Factor	Date	Tine	Analyst 	flethod	Batch
*PESTICIDES/PCB's/HERBICI	BFSH									
Aroclar 1016	**	ng/1	0.03000	0.00050	28	8/26/99	11:07	N. Rogers	8082	2187
Aroclor 1221	ND	n\$/1	0.93008	0.00050	20	8/26/99	11:07	A. Rogers	8082	2187
Aroclor 1252	XD	ng/1	0.02000	0.00050	28	8/26/99	11:07	il. Rogers	6062	2187
Aroclor 1242	<del>2</del> 3	ng/1-	0.03000	0.60050	28	-8/26/99	11:07	ñ. Rogers	8082	2187
Arecler 1748	ЖÐ	ng/1	0.03000	0.00050	20	8/26/99	11:07	n. Rogers	308Z	2137
Aroclor 1234	ND	Hg/1	0.03000	8.00050	28	8/26/99	11:07	N. Rogers	308Z	2137
Areclor 1260	MD	ne/1	0.03000	0.00050	29	8/26/99	11:07	N. Rogers	303Z	2187
HATSCELLANEOUS CHENISTRY>	ł									
Reactive Cganide	ND	ng/kg	2.0	2.0	1	8/25/99	17:00	CHollingsu	SH-846	2020
Reactive Sulfide	74.8	HQ/Rg	20. 0	28. 8	1	8/75/99	17:80	CHollingsu	SN-846	2020
Ignitability	XUT ISNITA	BLE UP TO :	200F	-		8/26/99	10:20	3. Brewer	10198	2327
Corrosivity	HUT CORRUS	IVE				8/24/99	14:35	<b>NcFarland</b>	1110	936

#### CLP Results

	Astrix Spike								
Analyte	Result	Units	Reg Linit	Recovery (X)	Date	Nethod			
		-	<b>F</b>						
Arsenic	< 1.80	ng/1	5.8	96	8/31/99	6010B			
Barium	51.2	ng/1	100	92	8/31/77	6010B			
Cadmium	2.40	ng/1	1.0	96	8/31/99	6010B			
Caronium	3.88	ng/1	5.0	95	8/31/99	60108			
Lead	24.88	ng/I	5.0	97	8/31/97	\$010K			
Hercury	< 0.010	ng/1	0.20	42	8/24/99	74709			
Seleaium	2.00	ng/1	1.0	95	8/31/99	66100			
Silver	7. 20	ng/1	5.8	54	8/31/99	60100			

HD = Hot detected at the report limit.

Flash poist/ignitability reported to the nearest 10 deg F.

#### Sample Extraction Data

Paranetar	Ht/Vol Extracted	Extract Vol	Bate	Analyst 	Nethod 
Wa's	850. ni	10.0 <i>n</i> I	8/21/99	Fitzuəter	3519
PCB's	500. ni	15.0 nl	8/21/99	Fitzuəter	3510



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#### ANALYTICAL REPORT

Laboratory Number: 99-A126763 Sample ID: NFAC-TC-P-01

Page 4

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Surrogate	X Recovery	Target Range
VIIA Surr, 1,2-0CA, 14	82.	60 138.
WER Surr, Toluene dB	71.	80 123.
VEA SUFF, 4-KFN	186.	73 122.
VER SUFF, DRFR	93.	74 133.

Surrogate diluted out due to sample matrix.

Report Approved By:

Touch

Report Date: 9/ 1/97

Theodore J. Duello, Ph.D., Lab Director Michael H. Dunn, N.S., Technical Director Johnny A. Mitchell, Dir. Technical Services Eric Smith, Assistant Technical Director Gail A Lage, Technical Services

Laboratory Certification Number: 11342

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ASSAYS, INC. 2960 Foster Creighton Dr. P.O. Box 40566 Nashville, TN 37204-0566 Phone 1-615-726-0177

SPECIALIZED

SVERDRUP CIVIL, INC 9212 ROBERT GRIBBEN 375 S. CHARLES ST, STE 404 BALTIMORE, MD 21201

Project: 000223-D04 Project Name: NIAGARA FALLS USARC Sampler: ROBERT G.

ANALYTICAL REPORT

.

Lab Number: 99-A126764 Sample ID: NFAC-TC-P-O2 Sample Type: Ground water Site ID:

Date Collected: 8/19/99 Time Collected: 15:00 Date Received: 8/20/99 Time Received: 9:00

. <sup>.</sup>			Report	Rean	D11					
Asalyte	Result	Uaits 	Linit	Linit	Factor	 	Tine 	Analyst 	Rethod 	Bat:
×ORSANIC PARAMETERS×										
Haphthalene	ND.	Hg/1	8.085	8.605	1	8/28/99	20: 27	J. Sott	8270C	350
Acenapthene	ND	HQ/1	8,665	0.005	1	8/78/99	ZO: 27	J. Sott	8270C	350
Sathracese	<del>8</del> 9	ng/1	0.995	0.805	1	8/28/99	20:27	J.Satt	8278C	356
Fluoranthene	HD SH	119/1	0.005	8.885	1	8/28/99	28:27	J. Gott	8270C	350
Fluorese	XD -	ng/l	8, 885	8.905 -	1	8/28/99	20: 27	J. Sott	3270C	356
Pyrese	hd	ng/1	8, 865	0.005	1	8/28/77	20: 27	J. Sott	82790	350
ienzoi a) antàracene	жD	ng/1	0.005	0.005	1	8/28/99	20: 27	J. Sott	8270C	350
<i>j</i> enzo(a)pyrene	Ж₽	ng/1	8.005	8.005	1	8/28/99	20:27	J. Sott	82790	350
Senzo(b)fluoranthene	нD	ng/1	0.005	0.005	1	8/28/99	20:27	J. Gott	82790	358
Neszo(k)fluoranthese	ХD	Hg/1	8,685	0.005	1	8/28/99	28: 27	J. Satt	8270C	350
Càryseae	和臣	ng/1	8.005	0.005	1	8/28/99	28:27	J. Gott	6270C	358
Dibenzo(a,h)anthracene	ND	ng/1	0.005 🔶	0.995	1	8/28/99	20:27	J.Gott	82790	350
Indeno(1,2,3-cd)pyrene	ХD	ng/1	0.005	8.805	1	8/28/99	20: 27	J. Sott	8270C	358
Aceaapthyleae	ND	Hg/1	0.005	8.805	1	8/28/99	29: 27	J. Sott	8278C	358
Henzoig, h, i) perglene	ND	Hg/1	0.065	8.005	1	8/28/99	20: 27	J. Sott	82700	350
Phenasthrene	ND	ng/1	0.005	8,005	1	8/28/99	20: 27	J. Gott	82700	350
*VOLATILE ORGANICS*										
Acetose	<b>HD</b>	ng/1	0.0160	0.0100	1	8/29/99	17:04	X.Hill	82688	258
Beazeae	XD	ng/1	8.0020	0.0020	1	8/29/99	17:04	K. Hill	82608	258
Bronobenzene	80	ng/1	8.0020	0.0020	1	8/29/99	17:94	X. H111	82606	258
Uromochloromethame	HD	11g/1	0.0020	0.0020	1	8/29/99	17:84	K. H111	82608	258
Broneforn	ХD	Hg/1	0.8028	0.0020	1	8/29/99	17:04	K. Hi11	8260B	258
Bronomethane	ND	ng/1	0.0020	0.0020	1	8/29/99	17:04	K. H111	8260B	258
2-Butanone	H0	ng/1	0.6180	0.0100	1	8/29/99	17:04	K.Hill	82608	258
a-Sutulbenzene	<b>NO</b>	ng/1	0.8820	0.0020	1	8/29/99	17:04	K. HI11	82698	258
sec-Butylbeszene	ND	ng/1	8.0020	8,8020	1	8/29/99	17:04	K. 8111	82608	253
t-Rutulbenzene	ND	Hg/1	8.0020	0.0020	1	8/29/99	17:84	K. H111	8250B	258
Carbon disulfide	ND	ng/1	8,0020	0.0928	1	8/29/99	17:04	K.Hill	82668	258
Carboa tetrachloride	HQ.	ng/1	0.00200	0.00200	1	8/29/99	17:04	K. H111	8250B	258
Chlorobenzene	ND	ng/1	0.0020	0.6029	1	8/29/99	17:04	K. Nill	8268B	258
Chloroethane	11) 11)	ng/1	0.0020	0.0020	1	8/29/99	17:04	K. H111	8260B	258
2-Chloroethylvinylether	KD	ng/1	0.0050	0.0020	1	8/23/99	17:04	K. H111	8250B	258
Chloroforn	RD	ng/1	0,0020	0.0020	1	8/29/99	17:04	K. H111	82608	258
Chloromethane	80	ng/1	0.0020	0.0020	1	8/29/99	17:04	K.HIII	8268B	258
2-Chlorotoluene	ND	ng/1	0.0020	6.0026	1	8/29/99	17:84	K.Hill	82600	258
4-Chlorotoluene	ND	ng/1	0.0020	0.0020	1	8/29/99	17:04	K.HIII	82405	258

COPY 1



## SPECIALIZED ASSAYS, INC.

ANALYTICAL REPORT

Laboratory Number: 97-A126764 Sample ID: NFAC-TC-F-O2

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Gaalyta	Result	Valts	Report Linit	Avər Linit	Dil Factor	Date	Tine	Analyst	Netho4	Batel
1,2-Dibrono-3-chloropropame	KD	Hg/1	0.0100	0.0100	1	8/29/99	17:04	K. Hill	8260B	2583
Dibronochloromethame	ND	Hg/1	0.0029	0.0020	1	8/29/99	17:04	K. H111	82608	<b>Z</b> 388
1,2-Dibronoethane	剙	Hg/1	8.8626	0.0020	1	8/29/99	17:04	K. H111	82608	2588
Dibronomethaae	RD	ng/1	0.0023	0.0020	1	8/29/99	17:94	K. H111	82608	2538
1,2-Dichlorobeazeae	XD	ng/1	0.0020	0.0020	1	8/29/99	17:04	K. Hi11	82508	2588
1,3-Dichlorobenzene	ND	ng/1	8.0829	0.6020	1	8/29/99	17:04	X. H111	8260B	2588
1,4-Dichlorobenzene	ND	ng/1	0.0828	0.0020	1	8/29/99	17:04	K. H111	82688	2588
Dichlorodifluoromethame	ND	ng/1	6,0020	0.0020	1	8/29/99	17:84	K. Hill	82600	2588
1,1-Dichloroethane	80	ng/1	0.0020	0.0020	1	8/29/99	17:04	K. H111	\$260B	2588
1,2-Dichloroethame	809 - CEK	ng/1	8.0020	0.0820	1	8/29/99	17:54	X.H111	82698	2588
1,1-Dichloroetheme	ND	ng/1	0.0023	0.0020	1	8/29/99	17:04	K. 9111	82668	2588
cis-1,2-Dichloroetheme	ND	Hg/1	0.0028	0.0020	1	8/27/99	17:84	K. H111	82608	2388
trans-1,2-Dichloroethene	ND	Hy/1	8.6023	0.0020	1	8/29/99	17:64	K.HI11	82608	2588
1,2-Sichloropropaae	ND ·	H9/1	8.6020	0.0020-	1	8/29/99	17:04	K. Hill	8268B	2588
1,3-Dichleropropane	ND	Hg/1	0.0020	0.0029	1	8/29/93	17:04	X. H111	8266B	2588
7,2-Dichloropropane	нd	119/1	0.0020	0.0020	1	8/29/99	17:04	X. H111	87600	2588
,1-Dichloropropene	ND	Hg/l	0.0020	8.0020	1	8/29/99	17:84	K. 3111	82600	2583
cis-1,3-Dichloropropene	HD	Hg/1	0.0020	0.0020	1	8/29/99	17:04	X. H111	82508	2588
trass-1,3-Dichloropropene	HD	ng/1	8.0028	0.0020	1	3/29/99	17:04	X. H111	82608	2588
Ethylbenzene	郡	H9/1	8.0020	0.0020	1	8/29/99	17:84	X. H111	82608	2588
Hexachlorobstadiene	X0 ~ ·	ng/1	8,0028 -	0.0020	1	8/29/99	17:94	K. Hill	82608	2588
2-Hexanone	纽尔	ng/1	0.0100	0.0100	1	8/29/99	17:84	K. H111	82608	2588
Isopropyldenzene	ND OK	rg/1	0.0020	0.0020	1	8/29/99	17:04	K. H111	82698	2588
4-Isopropulteluese	жÐ	ng/1	8, 6820	0.0020	1	8/79/99	17:84	K. H111	82608	2588
4-Nethyl-Z-pestanose	ND	Hg/1	0.0100	0.0100	1	8/29/99	17:84	K. H111	82608	2588
Nethylene chloride	жD	ng/1	8,9109	0.0100	1	8/29/99	17:04	K.Hi11	82608	2588
Naphthalene	80 86	ng/1	8.0020	0.8020	1	8/29/99	17:04	K. Hill	82608	2588
a-Fropyldeszene	XD	ng/1	8.0070	0.0020	1	8/29/99	17: 94	K. 8111	82508	2388
Styreae	ND CH	ng/1	0.0020	0.0020	1	8/29/99	17:04	K.H111	8268B	2568
1,1,1,2-Tetrachloroethane	ND	ng/1	0.0020	0.0020	1	8/29/99	17:04	K.Hill	82588	2588
1,1,2,2-Tetrachloroethame	KD	ng/1	0.0020	0.0020	1	8/29/99	17:04	X. Hill	82600	2588
Tetrachloroethene	ND	Hg/1	8.0078	8.0020	1	8/29/99	17:04	K. H111	8260B	2583
Toluene	ND	ng/1	8.0020	0.0020	1	8/29/99	17:64	X. 8111	82600	2588
1,2,3-Trichlorobenzene	ND	ng/1	0.0020	9.0028	1		17:04	K. H111	8260B	2558
1,2,4-Trichlorobeszene	ND	Hg/1	0.0020	8.0029	1	8/29/99		K. H111	8260R	2588
1,1,1-Trichloroethame	XD	Hg/1	0.0020	0.0020	1	8/29/99		K. H111	82608	2588
1,1,2-Trichloroethane	ND	ng/1	0.0020	0.0020	1	8/29/99		K. 8111	82600	2588
Trichloreethese	ND	Hg/1	0.0010	8.0020	1	8/29/99		K. H111	82600	2588
1,2,3-Trichloropropane	ND	ng/1	6.0020	0.0020	1	8/29/99		K. Hill	82609	2588
1,2,4-Trimethylbenzene	KD KD	ng/1	0.0020	0.0020	1	8/29/99		K. H111	82698	2588
1,3,3-Trimethylbeazeae	ND	ng/1	0.0020	0.0020	1	8/29/99		K. H111	82688	2588
lisyl chloride	ND	Hg/1	8.0020	0.0020	1	8/29/99		K. H111	82608	2588
Xgleaes	ND	1971 1971	0.0020	9.6920	1	8/29/99		K. H111	8266B	2588
Kronodichloromethame	ND ND	ту/1 ну/1	0.0020	0.0020	1	8/27/77		K. H111	3260B	2588
			0.8020	0.0020	-		17:04	X.Hill	82605	2538



ASSAYS, INC. 2960 Foster Creighton Dr. P.O. Box 40566 Nashville, TN 37204-0566 Phone 1-615-726-0177

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# ANALYTICAL REPORT

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Laboratory Number: 99-A126764 Sample ID: NFAC-TC-P-C2

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#### Page 3

			Report	Ruan	Dil					
Analgte	Result	Valts	Linit	Linit	Factor	Date	Time	Analyst	Nethod	Batch
ین ها که این س ها که این دو بی بین بین بین بین بین جو چو چو بین بین می این این این این این این این این این ای	در ها ان به ها هر ها ای وال <b>و</b>			1.1 <u></u> 1.2				ف ها بین هر چه بین خد بین زبین این خت		
*PESTICIDES/PCB'S/HERBICID	52%									
Arocler 1916	HD	ng/1	0,08050	0.00050	1	8/25/99	2:49	ñ. Rogers	8082	2187
Aroclar 1771	ND	ng/1	0,00050	0.00050	1	8/25/99	2:49	ñ. Rogers	8087	2187
Aroclor 1737	ND	ng/1	0.00050	9.00050	1	8/25/99	2: 47	B. Rogers	8637	2187
Aroclor 1242	80	ns/1	8,80858	8.88059	1	-8/25/79	2:49	ñ. Rogers	8082	2187
Aroclor 1248	HD .	ng/1	0.96650	0.00050	1	8/25/79	2:47	ff. Rogers	8082	2187
Aroclor 1254	XD	ng/1	0.00050	0.00050	1	8/25/99	Z: 47	N. Rogers	8082	2137
Sroclor 1268	と	Hg/1	0.00050	0.00050	1	8/25/99	2: 49	n. Rogers	3082	2187
MILISCELLANEOUS CHENISTRYM										
Reactive Cyanide	X	ng/kg	2.0	2.0	1	8/26/99	16:00	CHollingsu	SH-846	2877
Reactive Sulfide	ND	ng/kg	29. 8	Z0. 0	1	8/26/99	16:00	CHollingsu	SH-846	2377
Ignitability	NUT ISNITA	ALE UP TO :	200F	~		8/26/99	18:29	S. Breuer	10107	2327
Corrosivity	MUT CERROS	IVE				8/25/99	17:30	<b>NcFarland</b>	1110	2188

CLP Results

	Natrix Spike								
Analyte	Result	Usits	Reg Linit	Recovery (%)	Date	nethod			
		-	*****						
Arsenic	( 0.19	ng/1	5.0	102	8/28/99	68100			
Rarius	< 1.00	ng/1	100	100	8/28/99	5010R			
Cadmium	( 0.100	Hg/1	1.0	101	8/28/99	60108			
Chronium	< 0.50	ng/1	5.0	100	8/28/99	6010B			
Lead	< 0.500	Hg/1	5.0	96	8/28/99	6010B			
<i>dercury</i>	< 0.810	ng/1	0.20	110	8/24/99	7470A			
Seleaium	< 0.100	ng/1	1.9	107	8/28/99	6010B			
Silver	< 0.10	ng/1	5.0	79	8/28/99	6010B			

HD = Not detected at the report limit.

Flash point/ignitability reported to the nearest 10 deg F.

Sample Extraction Data

Paraneter	Nt/Vol	Extract Vel	Date	Analyst	ñethod
	Extracted				
WA's	1000 ml	1.0 nl	8/21/99	Fitznater	3510
PCB's	500. ml	5.00 nl	8/21/99	Fitznater	3518



SPECIALIZED ASSAYS, INC. 2960 Foster Creighton Dr. P.O. Box 40566

P.O. Box 40566
 Nashville, TN 37204-0566
 Phone 1-615-726-0177

ANALYTICAL REPORT

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Laboratory Number: 99-A126764 Sample ID: NFAC-TC-P-02

Page 4

Surrogate	% Recovery	Taryet Range
		الله الله الله الله الله ولا الله ولا الله وله الله وله الله ال
VCA Surr, 1,2-9CA, 44	104.	60 138
VER Surr, Toluene de	78.	80 123
VER Surr, 4-BFN	103.	73 122
VER SUTT, DUFR	71.	74 133
surr-Nitrobenzene-d5	- 40.	15 195
surr-2-fluoroàiphengl	38.	17 118
surr-Terphenyl d14	21.	18 116
peb surr - TCMX	64.	28 122
acd surr-DCB	49.	18 120

Report Approved By:

T. Jo ull

Report Date: 9/ 1/99

Theodore J. Duello, Ph.D., Lab Director Michael H. Dunn, M.S., Technical Director Johnny A. Mitchell, Dir. Technical Services Eric Smith, Assistant Technical Director Gail A Lage, Technical Services

Laboratory Certification Number: 11342



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#### PROJECT QUALITY CONTROL DATA

# Ratrix Saike Recovery

Analyte	units	Orig. Val.	MS Vil	Spike Conc	Recovery	Target Range	9.C. Natch
Xaphthalene	ng/1	< 8.085	( 8.985	0.100	N/A	26 139.	1375
Haphthalene	na/1	< 8.085	( 0.665	0.100	R/A	26 139.	3568
Acensothese	10/1	< 0.005	0.073	9,100	73	53 148.	1876
Acenapthene	ng/1	( 0.005	0.050	0.100	509	58 140.	3268
Astbracese	110/1	\$ 0.005	( 0.005	0.100	X/8	60 127.	1375
Astbracese	ng/1	° ( 0.005	< 0.005	0.100	¥/8	60 127.	3508
Fluorantheae	ng/1	< 0.005	< 0.865	0.100	H/A	68 135.	1876
Fluorantheme	Hg/1	< 0.005	( 0.605	5.169	8/8	68 13 <b>5</b> .	3505
Fluorene	ng/1	< 0.005	< 0.805	8,160	N/A	68 122.	1876
Fluorene	ng/1	( 8.885	< 8.865	8.100	8/8	68 122.	3208
Fyrene	ng/1	< 0.005	0.078	0.100	78	57 118.	1378
Pyrese	ng/1	< 8.085	0.054	0.100	543	57 118.	3508
Senzo(a) anthracese	HQ/1	( 0.005	< 0.005	3, 100	8/8	72 130.	1375
Reazo(s)asthracese	Hg/1 -	< 8.885	( 0.005 -	0.100	8/8	72 130.	3508
Senzo(a)pyreae	Hg/1	< 0.005	< 0.865	0.100	X/8	72 132.	1396
Reazo(a)pyreae	Hg/1	< 8.885	( 0.665	0.100	X/8	72 132.	3508
Kenzo(b)fluoranthese	1121	< 0.005	< 0.805	0.100	¥/9	68 135.	1876
Nenzo(b)fluorasthese	Hg/1	( 8.905	( 0.005	0.100	¥/A	68 135.	3588
Senzo(k)fluoranthene	Hg/1	< 8.685	< 0.005	0.100	8/8	81 133.	1896
Beazo(k)fluoraataeae	ng/1	< 8.885	< 0.005	0.100	<del>8</del> /8	81 133.	3508
Chrysene	ng/1 -	< 0.005	⊀ 0.865	3.100	N/A	10 130.	1376
Chrysene	ng/1	< 8,885	< 0.005	0.100	<b>%/</b> %	10 180.	3508
Vibenzo(a,h)anthracene	H4/1	{ 0.005	< 8.965	0.100	X/8	67 124.	1876
Dibenzo(a,h)anthracene	ng/1	< 0.005	< 0.885	0.199	A/A	69 124.	3508
Indeno(1,2,3-cd)pyrene	ng/1	< 0.085	( 0.005	8.100	8/8	26 143.	1376
Indeno(1,2,3-cd)pyreae	ng/1	( 8,005	< 8.995	0.160	X/4	26 143.	3508
Acenapthylene	ng/1	< 9.005	< 8.885	0.100	X/8	54 123.	1896
Acenapthylene	ng/1	< 0.005	< 0.005	0.100	R/A	54 123.	3568
Benzo(g,h,i)pergleme	119/1	< 0.005	< 0.605	0.100	<b>H.</b> A	24 145.	1396
Reazo(g,b,i)pergleae	ng/1	( 0.005	< 0.005	0.100	14/A	24 145.	3508
Phenanthreae	ng/1	< 0.005	< 8.005	0.100	8/9	81 111.	1875
Phenanthrene	ng/1	< 8.605	< 0.005	6.100	¥/A	81 111.	3508
Beazeae	ng/1	( 0.0020	0.0484	0.0560	97	66 135.	2586
Chloroùeszese	ng/l	< 0.0020	0.0487	8,6568	97	<b>68 134</b> .	2588
1,1-Dichloroetheme	19/1	< 0.0020	0.0486	0.0580	97	59 144.	2583
Tolueae	ng/1	< 0.0020	0.0473	0.0500	<b>95</b>	55 151.	2588
Trichloroethese	na/1	< 0.0020	8.0622	0.0500	124	54 153.	2588
Aroclor 1268	ng/1	< 9.00050	0.01138	0.01000	114	69 143.	2187

#### Natrix Spike Duplicate

Analyte	units	Orig. Val.	Dușlicate	87D	Linit	Q.C. Batch
Haphthaleae	Hg/1	< 0.805	( 0.005	X/8	32.	1375
ysbyçysfene	Hg/1	< 0.005	< 0.005	¥79	32.	3508
Aceaspthese	ng/1	0.073	0.067	8.37	15.	1876



PROJECT QUALITY CONTROL DATA

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Natrix Spike Duplicate

Analyte	usits	Drig. Val.	Dușlicate	72FD	Linit	9.C. Batch
Aceaaptiene	 Hg/l	0. 858	0.047	\$.19	15.	3508
Asthracese	Hg/1	< 0.005	( 0.085	8/8	14.	1376
Anthracene	Ng/1	< 0.005	< 0.005	N/A	14.	3568
Fluoranthene	ng/1	( 0.695	< 0.005	X/A	15.	1876
Fluoranthene	Hg/1	< 0.005	( 8.005	8/8	15.	3263
Fluorene	ng/1	· ( 0.005	< 0.005	8/9 -	31.	1876
Fluoreae	ng/1	< 0.005	< 0.005	N/A	31.	3588
Pyrese	Hg/1	0.073	0.074	5.Z6	3.	1876
Fyrese	Hg/1	0.054	8.054	8, 90	3.	3208
Nenzo(a)asthracese	89/1	< 0.685	< 0.005	N/8	<b>Z1</b> .	1875
Benzo(a)anthracene	ng/1	< 8.005	( 8,005	8/9	21.	3208
Kenzo( a) pyrene	Hg/1	< 0.005	( 8.665	R/A	16.	1876
Kenzo(a)pyrene	Hg/1	< 8,905	< 0.005	8/8	16.	3208
Beazo(b)Fluoraatheae	ng/1 -	< 0.005	< 0.005	N/A	26.	1876
Beazo(3)fluoraatheae	ng/1	< 9.905	< 6.005	N/A	26.	3268
Benzo(k)fluoranthene	ng/1	< 0.005	< 0.005	N/9	38.	1876
Nenzo(k)fluoranthene	×9/1	< 8.005	( 8,965	8/R	30.	3508
Chryseae	ng/1	< 8.695	< 0.605	X/8	16.	1896
Chrysene	ng/1	< 0.005	< 0.005	<b>H/</b> A	16.	3368
Didenzo(a,à)anthracene	ng/1	( 0.005	( 0.005	N/A	38.	1876
Dibenzo(a,h)anthracene	-Hg/1-	< 0.005	- ( 8,005	N/8	38.	3208
Indeno(1,2,3-cd)pyrene	Hg/1	( 0.805	< 0.005	8/A	37.	1876
Indeno(1,2,3-cd)pyrene	Hg/1	( 8,865	< 0.005	K/A	39.	3508
Acenapthylene	ng/1	< 0.005	< 8.865	₩/ <b>8</b>	36.	1876
Acenapthyleae	ng/l	< 0.005	< 0.005	8/8	36.	3508
Nenzo(g,h,l)perglese	ng/1	< 8,605	< 0.005	¥/A	43.	1375
Nenzo(g,b,i)perylene	Hg/1	< 9.005	( 0.665	K/A	48.	3588
Phenanthrene	ng/1	< 0.005	( 0.005	8/B	1ó.	1876
Phenaathrene	ng/1	< 0.005	< 0.005	a/a	15.	3508
Benzene	HG/1	0.0484	0.0474	2.09	18.	2588
Chlorobenzene	ng/1	0.0437	0.0451	7.58	20.	2588
1,1-Bichlorostheme	ng/1	0.0486	0.0499	8.82	52.	2588
Tolueme	ng/1	0.0473	0.0457	3.44	22.	2588
Trichloroethene	ng/1	0.0622	0.0631	1.44	18.	2588
Aroclor 1260	ng/1	0.01138	0.01320	14.81	30.	2187

#### Laboratory Control Data

Analyte	units	Kaona Val.	. Analyzed V	al 🛛 🛛 Secovery	Target Range	Q.C. Batch
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<b>Haphthalese</b>	Hg/1	0.050	0.037	74	68 - 140	1376
Naphthalene	ng/1	0.659	0.041	82	68 - 143	3568
Rcenapthene	ng/1	0.658	0.040	50	60 - 140	1896
Acenapthene	Kg/1	0.050	0.037	76	60 - 140	3588
Asthracese	ng/1	0, 050	8.645	70	60 - 140	1876
Asthracese	на/1	0, 050	0.040	89	60 - 140	3588



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#### PROJECT QUALITY CONTROL DATA

#### Laboratory Coatrol Data

Analyte	vaits	Kaowa Val.	Analyzed Val	% Recovery	Target Range	9.C. Bateb
Fluoranthene	ng/1	0.850	8.842	84	60 - 140	1896
Fluoranthese	Hg/1	0. 850	0.044	83	68 - 140	3308
Fluorene	ng/1	9, 050	0.039	78	60 - 140	1876
Fluoreae	Hg/1	0, 850	8.837	78	60 - 140	3588
Fyrale	ng/1	0.650	D. 046	72	60 - 140	1878
Fyreae	ng/1	0.850	0.043	86	60 - 140	3208
Reazo(a)aathraceae	ng/1	0. 050	0.045	70	60 - 140	1876
Senzo(a)aatbracene	Hg/1	0.050	8.043	86	69 - 140	3303
Benzo(a)pyrene	HQ/1	0. 950	0.845	90	60 - 140	1376
Beazo(a)pyreae	ng/1	8.850	8.841	82	68 - 148	3208
Reazo(b)fluorsatheae	H9/1	0, 050	0.036	72	60 - 140	1376
Benzo(b)fluoranthese	Hg/1	0.050	0.043	35	60 - 140	3568
Nenzo(k)fluoranthene	ng/1	0.050	8.073	140 \$	88 - 140	1876
Senzo(k)fluoranthene	ng/1 -	0.050	0.046	72	60 - 140	3503
Chrysene	ng/1	8.050	0.046	92	60 - 140	1896
Chryseue	ng/1	0.050	0.049	98	68 - 148	3588
Didenzo(a,h)aathracene	ng/1	0.050	0.039	78	60 - 140	1896
Didenzo(a,h)anthracene	H9/1	9, 050	8.046	92	60 - 140	3508
Indeno(1,2,3-cd)pyrene	Hg/1	9, 050	0.036	72	68 - 148	1876
Indeno(1,2,3-od)pyrene	ng/1	0.850	8.044	88	60 - 140	3208
Acenapthylene	~ng/1-	0.850	- 0.041	82	60 - 140	1896
Acesspithylese	Hg/l	0.050	8. <b>04</b> 2	34	60 - 140	3508
Kenzo(g,h,i)şerylene	ng/1	0,050	8.033	<b>ర</b> చ	60 - 140	1376
Benzo(g,h,i)perglene	ttg/1	0.050	8.645	90	68 - 149	3386
Phenanthrene	ng/1	8.859	0.045	90	60 - 140	1896
Fheajathrene	ny/1	0.050	0.044	88	68 - 140	3203
Acetone	ng/1	0, 2560	0.1860	74	70 - 130	2588
Kenzene	ng/l	8.8560	8.0494	<del>9</del> 9	70 - 130	2588
Kronobenzene	Hg/1	0.0500	0.0493	<b>78</b>	70 - 130	2588
Bronochloromethane	Hg/1	0.0500	0.0523	106	78 - 130	2588
Bromoform	ng/l	0.0580	0.0579	116	70 - 130	2568
Urononethane	ng/l	0.0500	0.0443	87	70 - 130	7588
2-Kutanone	Hg/1	0.2566	0.2340	182	78 - 130	2588
a-Butyl beazene	ng/1	0.0588	0.0455	91	70 - 130	2588
sec-Butylbenzene	ng/l	6.8566	8.8467	93	70 - 139	2588
t-Butyldenzene	ng/1	0.0590	0.0469	94	78 - 139	2588
Carboa disulfide	ng/1	0.8500	0.0477	95	78 - 130	2568
Carbon tetrachloride	Hg/1	0.05600	0.05430	199	78 - 130	2588
Chlorobenzene	ng/1	0.0500	0.0492	<b>98</b>	70 - 130	2588
Chloroethane	ng/l	0.0500	0.0486	97	70 - 139	2588
2-Chloroethylviaglether	ng/1	0.2590	8.2578	104	70 - 130	2388
Chloroforn	ng/1	0.0500	9.0579	115	70 - 130	2588
Chloronethane	ng/1	0.0560	0.0473	75	76 - 130	2383
Z-Chlorotoluene	ng/1	0.0500	0.0483	97	70 - 130	2588
4-Calorotoluena	ng/1	0.0509	9.6484	97	70 - 130	2588
1,2-Dibromo-3-chloropropane	Hg/1	0.0500	0.0627	125	78 - 138	2385

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PROJECT QUALITY CONTROL DATA

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#### Laboratory Control Bata

Apalyte	units	Kacua Val.	Analyzed Val	X Recovery	Target Range	Q.C. Batcà
Dibronockloromethame	Hg/1	0.0500	0.0548	110	70 - 130	2588
1,2-Dibromoethame	ng/1	0.0500	9.0370	114	70 - 130	2538
Dibromomethane	ng/1	0.0500	0.0385	117	76 - 130	2588
1,2-Dichlorobenzene	ng/1	0.0569	0.0472	98	78 - 130	2568
1,3-Dichlorobenzene	Hg/1	0.0566	0.0475	95	70 - 130	2588
1,4-Dichlorobenzene	Hg/1	0.0500	0.0473	95	70 - 130	2588
Dicalorodifluoronetaaae	#4/1	0.0500	0.0467	97	70 - 130	2588
1,1-Dicaloroethage	ng/1	0.0500	0.0547	107	70 - 130	2588
1,2-Dichloroethame	ng/1	0.0500	0.0638	128	70 - 130	2588
1,1-Dichloroethene	ng/1	0.0500	0.0510	102	70 - 130	2588
cis-1,2-Dicaloroethese	Hg/1	0.0560	0.0567	113	70 - 130	2388
trans-1,2-Dichloroethese	Hg/1	0.0500	0.0533	107	70 - 130	2588
1,2-Dichloropropane	ng/1	9. 0500	8.0517	103	70 - 130	2388
1,3-Dichlorogropane	ng/1 -	0.0500	0.0340	108	70 - 130	2568
2,2-Dichloropropame	Hg/1	0.9500	0.0417	84	70 - 130	2388
1,1-Dichloropropene	Hg/1	0.0500	0.0473	75	70 - 130	2388
sis-1,3-Dichloropropene	Hg/1	0.8500	0.0303	101	78 - 130	2388
trans-1,3-Dichloropropene	ng/1	0.0550	8.0514	183	76 - 130	2586
Ethyldenzene	ng/1	0.0500	0.0470	98	70 - 130	2588
Hexachlorobutadiene	Hg/1	0.0560	0.0430	86	70 - 130	2388
2-Hexanose	~#g/1-	0. 2500	0.2520	101	70 - 130	2588
Isopropuldenzene	8g/1	0.0586	8.0474	95	70 - 130	2588
4-Isopropyltoluene	Hg/1	0, 0503	8,8454	9 <u>1</u>	70 - 130	2588
4-Nethyl-2-peatanone	ng/1	0.2500	0.3140	125	70 - 130	2588
Nethylene chloride	ng/l	0.9500	9.0489	96	70 - 130	2588
Xaphthalene	Hg/1	0.0500	0.0523	106	70 - 130	2583
a-Propylbenzene	Hg/1	0.0500	0.0470	94	78 - 130	2588
Styrene	HQ/1	0.0500	0.0474	55	70 - 130	2388
1,1,1,2-Tetrachloroethame	ng/1	0.0500	0.0534	197	70 - 130	2588
1,1,2,2-Tetrachloroethame	Hg/l	0.0500	0.0454	91	70 - 130	2588
Tetrachloroetheae	ng/l	9.0500	0.0457	91	79 - 130	2588
Toluene	ng/1	0.0500	0.0508	102	70 - 1 <del>3</del> 0	2588
1,2,3-Trichlorobenzene	ng/l	0.0500	0.0493	<b>99</b>	70 - 130	2588
1,2,4-Trichlorobenzene	ng/1	0.0500	0.0457	92	70 - 130	2588
1,1,1-Trickloroethaae	ng/1	6.0500	9.8535	107	78 - 130	2568
1,1,2-Trichloroethame	Hg/1	0.0500	0.0545	107	70 - 130	2388
Trichlorgethene	ng/1	0.0500	0.0574	115	70 - 130	2588
1,2,3-Trichloropropane	ng/1	0.0500	0.0584	113	70 - 130	2588
1,2,4-Trimethylbenzene	ng/1	6.0500	0.0472	74	70 - 130	2586
1,3,5-Trinetaylbenzene	ng/1	0.0500	0.0459	92	70 - 130	2566
Vingl chloride	Hg/1	0.0500	9,0505	101	70 - 130	2588
Xgleses	Hg/1	0.1500	8.1474	<u>78</u>	70 - 130	2386
Bronodichloromethane	ng/1	0.0550	0.0573	115	70 - 130	2568
Tricklorofluoromethame	ng/1	0.0500	0.0510	197	70 - 130	2368
Araclar 1818	Hg/1	0. 01000	0.01027	103	60 - 140	2187
Aroclor 1768	ng/1	8. 91000	0.01232	123	60 - 140	2187



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# PROJECT QUALITY CONTROL DATA

#### Blank Data

Analyte	Blank Value	Vaits	Q.C. Batch
Raphthalene	< 9.005	ng/2	1876
Haphthalene	< 8.995	ng/1	3508
Aceaapthene	( 0.005	ng/1	1376
Acenapthene	< 0.005	ng/1	3586
Anthracene	< 8.095	ng/1	1896
Asthraceae	< 0.005	Ng/1	3208
Fluoraatheae	< 0.005	ng/1	1896
Fluoranthene	< 8.805	Hg/1	3568
Fluoreae	< 0.005	119/1	1896
Fluorene	< 8.005	ng/1	3508
Pareae	< 0.005	H\$/1	1876
2ålsøe	( 8,695	ng/1	3508
Benzo(a)anthracene	< 0.005	ng/1	1896
Beazo(a)asthracese	C 8.005	ng/1	3388
Beazo(a)pyreae	< 0.005	ng/1	1895
Senzo(a)syrene	< 0.005	ng/1	3588
Jenzo(b)fluorantheae	< 0.005	ng/l	1876
Beazo(b)fluorantheae	( 0.005	ng/1	3508
Beazo(k)fluoraatheae	< 0.005	ng/1	1896
Beazo(k)fluoraatheae	< 0.005	ng/1	3508
Chrysene	C-0, 995	ng/1	1856
Chrysene	< 0.085	ng/1	3508
Dibenzo(a,h)anthracene	< 0.005	ng/1	1896
Dibeszo(a,h)asthracese	< 8.005	нуЗ	3538
Indeno(1,2,3-cd)pyrene	( 0.085	ng/1	1376
Indeno(1,2,3-cd)pyrese	< 0.085	Hg/1	3388
Acesspthylese	< 0.005	ng/1	1396
Acesopthylene	< 8.005	Hg/1	3508
Kenzo(g,h,i)perylene	< 0.005	ng/1	1376
Kenzo(g,h,i)perylene	< 0.005	ng/1	3508
Pbenanthrene	< 8,885	H9/1	1395
Phenanthrene	< 0.885	ng/1	3208
Arseaic	( 0.19	ng/1	2478
Arseaic	( 0,10	ng/1	5194
Darium	< 1.00	Hg/1	2478
Rarium	< 1.00	Hg/1	5194
Cadmiun	< 0.180	H3/1	2473
Cəmiun	< 0.100	ng/1	5194
Chronium	< 8.50	ng/1	2478
Chroniun	< 8.50	H4/1	5194
Lead	< 8.500	ng/1	2478
Leid	< 0,500	Hg/1	5194
Nercury	< 0.010	ng/1	467
Seleaium	< 0.100	ng/1	2478
Seleaium	< 0.100	ng/l	5194
Silver	< 0.10	ng/1	2478

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PROJECT QUALITY CONTROL DATA

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#### Blank Data

Analyte	Slaak Value	Units	A.C. Batch
Silver	( 0.10		=
Acetone	( 0.13	Hg/1 22	5194
Reazene		нg/1 нь 73	2588
Bronobeszese	< 0.0070 ( 0.0070	Hg/1	2588
Kronocoloronethaae	< 8.8870 < 8.8676	Hg/1	2583
Bronsforn	< 8.0020	H9/1 22	2588 2588
Brononethase	< 8.0020	ng/1 ng/1	2583
2-Butanone	( 0.0010	ng/1 ng/1	2588
n-Nutylbeszene	( 0.0020	3971 313/1	2588
sec-Rutylbenzene	( 0.8828	ng/1	2588
t-Butylbenzene	< 0.0020	ng/1 Ng/1	2388
Carbon disulfide	( 0.0020	ng/1 ng/1	2588
Carbon tetrachloride	< 0.00209	ng/1 ng/1	2588
Chlorobeszese	( 0.0020	лу/1 Нg/1	2388
Chloroethane	< 0.0020	ng/1 Ng/1	2588
2-Chloroethylvinylether	( 8.0658	ng/1 ng/1	2383
Chloreforn	( 0, 0020	ng/1 ng/1	2588
Chloromethane	< 0.0020	Hg/1	2588
Z-Chlorotoluene	< 8.0020	Hg/1	2588
4-Chlorotoluese	< 0.0020	ng/1 ng/1	2588
1,2-Dibrono-3-chloropropa		ng/1	2588
Disronochloronethase	< 8.0020	ng/1	2383
1,Z-Dibronoetsame	< 8.0020	ng/1	2388
Dibrononethane	< 0.0020	ng/1	2538
1,2-Dichlorobenzene	( 8, 8828	H4/1	2588
1,3-Dichlorobenzene	\$ 8,0829	ng/1	2588
1,4-Dichlorobeszese	< 0.0020	ng/1	2588
Dichlorodifluoromethame	< 0.0020	ng/1	2588
1,1-Dichloroethame	( 0.0020	ng/1	2588
1,2-Dicáloroethane	< 0.0020	ng/1	2568
1,1-Dichloroethene	( 0.0020	ng/1	2588
cis-1,2-Dichloroetheme	< 8.0020	ng/l	2588
trans-1,2-Dickloroethene	< 0.0020	Hg/1	2588
1,2-Dichloropropase	< 0.0020	Hg/1	2588
1,3-Dichloropropame	0.0020	нg/1	2588
2,2-Dichloropropase	< 0.0020	ну/1 Ну/1	2588
1,1-Dichloropropese	< 0.0020	Hg/1	2588
cis-1,3-Dichloropropene	< 8.9029	ny/1 ng/1	2588
trans-1,3-Dichloropropen		ng/1	2588
Ethylbenzene	< 0.0020	ng/1	2568
Hexachlorobutadiane	{ 0.0620	ng/1	2588
2-Hexanone	( 0.0100	ng. 1 ng/1	2388
Isopropulbenzene	< 6.0020	лу 1 нg/1	2588
4-Isopropyltoluese	< 0.0020	ng/1 ng/1	2588
4-Methyl-2-pestamone	( 0.0100	Hg/1	2588
Bethylene chloride	( 8.0029	ну/1	2566
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#### PROJECT QUALITY CONTROL DATA

#### Blank Data

Analyte	Blaak Value	Units	Q.C. Batch
Haphthalene	< 0.0020	ng/1	2588
n-Propylbeszene	< 8.6829	ng/1	2583
Styrene	< 0.0020	Hg/1	2588
1,1,1,2-Tetrachloroetham	e ( 0.0020	H9/1	2538
1,1,2,2-Tetrachloroetham	e ( 0.0020	H3/1	2388
Tetrachloroethene	< 0.0020	ng/1	2588
Toluene	< 0.0020	ng/1	2388
1,2,3-Trichlorobeszene	( 0.0020	Hg/1	2588
1,2,4-Trichlorobeszene	< 0.0020	ng/1	2588
1,1,1-Trichloroethame	< 8.0028	H3/1	2588
1,1,2-Trichloroetbane	< 8.6828	Hg/1	2538
Trichloroethese	< 8.0820	Hg/1	2583
1,2,3-Trickloropropane	< 8.0020	Hg/1	2588
1,7,4-Trimethyldeszene	< 8.0020	Hg/1	2588
1,3,5-Trinethylbeazeae	< 8,0020	89/1	2588
Vinyl chloride	< 0.0020	Hg/1	2588
Aylenes	< 0.0020	Hg/1	2583
Bronodichloromethane	< 8, 8828	Hg/1	2388
Trichlorofluoromethame	< 8.0029	Hg/1	2588
Aroclor 1016	< 8.68858	Hg/1	2187
Aroclar 1221	(† 0. 00 <b>0</b> 50	Hg/1	2187
Aroclar 1232	< 0.00050	Hg/1	2187
Aroclor 1242	( 0.09050	Hg/1	2187
Aroclor 1248	< 0.00050	3g/l	2187
Aroclor 1254	( 8.00050	ng/1	2187
Aroclor 1260	< 0.00050	Hg/1	2187

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Closure Report Niagara Falls USARC December 14, 1999

# Appendix F

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# Laboratory Report of Analysis for Project Closure Samples

#### UST-POST CLOSURE SUMMARY

#### Closure Date: 09/21/99

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Regulatory Authority:

<u>NYSDEC-Region 9</u> 270 Michigan Ave. Buffalo, NY 14203-2999

Site Name and Address:

<u>Niagara Falls United States Army Reserve Center</u> 9400 Porter Rd. Niagara Falls, NY 14304

Owner's Name, Address: And Phone Number <u>Nickolas Christopher-Colonel, DCSENGR</u> <u>AFRC-CNY-EN</u> <u>Fort Totten, NY 11359-1016</u> (718)352-5624

Tank Size	Tank Mat'l	Tank Product	No. of Samples Taken	Contaminated 'Soil Disposed (Quantity)	Contaminated Groundwater Disposed (Quantity)	Condition Of Tank
550 G	FRP-SW	wo	1-EF 1-ESW	0	325 G	G

Key:

G=Gallons FRP=Fiberglass Reinforced Plastic STL=Steel SW=Single Wall DW=Double Wall WO=Waste Oil and Water mixture EF=Excavation Floor ESW=Excavation Sidewall GW=Groundwater G=Good F=Fair P=Poor

Sample Numbering Key:

The samples are numbered in a format as follows:

AAAA-BB-C-01, where AAAA=Facility identification, BB=Sample type, C=sample matrix, 01=sample number. The following key may be helpful when reviewing sample results: MCAC=McConnell Army Reserve Center

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ES=Excavation sample SW=Sidewall sample GW=Groundwater S=Soil W=Water

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	RECORD			Other:	-		-			NFAC-SW-S-OU	NFAC-SN-S-01	NFAC-ES-S-03	NFAC-ES-5-03	Field Sample	B.C. # 1	PO Number <u>VR</u> 7hone NumbeA <u>10-837-</u>	Facility Location (City, St) -	City Baltimore Sampler Sign/Print Clerr Prolect Name Nigg Gra	Company Sverd	
nomequaries ay.	Balinguished by	Relinquished by:	Relinguisting by Sampler M		Sac Som- Poc is Linda Grimmer	NYSDEC STATS	SPECIAL DETECTION LIMITS			144503 XX	144501 & X	144502 a X X	JHH500 2 X	(La C) (La C)	Matrix Method	UA /Fac./Site I.D. 0-837-5840 Fax Number 410-837-3277	1940 Porter Ed. Niagana 1	MD 2120 Bt 200 Zip T. Can'blen Jr. / Parly J. Falls VSARL (1) /Prol. #	up Civil, Inc	SPECIALIZED ASSAYS, INC. 2960 Foster Creighton Drive • Nashville, TN 37204 [800] 765-0980 • [615] 726-0177 • Fax [615] 726-3404
-	Date	Date	Date 9-21-99		SAI PROJECTION (In Insure correction)	ma Lar Loss	REMARKS			*			0-21-19 11:30	DATE	Sampling	37-3277	5, NY 14309	6007732-Dort	9212	
	đ	Time	Time 4:00 /M		SAI PROJECT or QUOTE NUMBER (to insure correct Analysis and Billing)	Vous them				*			0	Type G= G BTEX M IF GRO C TPH Low C		602 8021 DA-1 D VPH D		Other		
R.	Received by: Laboratory	Received by:	Received by:	NA	UMBER	Lead, Cadmium,	- #							DRO TN EPH	OA-2     MASS     MASS     10 TX     907     10 601     Halocar	SEPH 0 1005 0 .1 0 0/1 0 802 bons	TPH Hig 0 Other 1664 Other 1 0 Other 1 0 Ot	gh 🗅 er 🗅 🗅		V
Vyarder			•		Temperature Received	Jefeniu M	Ust where product				XX		XX	PAH (HPL Metals VOA 624 Extractab PCB's 8 Pesticides	GC/MS) C) 610 0 PP 0 820 es 625 081 0 s, Organo	610 0 ( 8310) RCRA 0 60 <b>X</b> 0 8270 8082 <b>X</b> 0 001000	625   8 0   1 1   TAL 0   2 e   608	1100		NALYSIS REQUEST
hE-hod-5	Date	Date	Date		Becelved <u>H</u> C		ust was RCRA				XX		XX	Herbicides TCLP M Reactivity Flash Poin TOC 41	S 2,4-1 Aetals S Lead Corr nt Close 5.1 S	D, 2,4,5- VOA SVOA d Cup d Cup 0060	TP II F II F A Ignt Other II	en Cup 🗖		8B-0225
000	Time	Time	Time				RN			XX		XX		NYSDE						84

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SPECIALIZEI 2960 Foster Creighton Dr. P.O. Box 40566 Nashville, TN 37204-0566

Phone 1-615-726-0177

SVERDRUP CIVIL, INC 9212 ROBERT GRIBBEN 575 S. CHARLES ST, STE 404 BALTIMORE, MD 21201

Project: 000223-D04 Project Name: NIAGRA FALLS USARC(1) Sampler: ROBERT GRIBBEN

ANALYTICAL REPORT

> Lab Number: 99-A144500 Sample ID: NFAC-ES-S-03 Sample Type: Soil Site ID:

Date Collected: 9/21/99 Time Collected: 11:30 Date Received: 9/22/99 Time Received: 9:00

Analyte	Result	Units	Report Linit	Ruan Linit	Dil Factor	Date	Tine	Analyst	Nethod	Bato
			L1111 L							
NULATILE ORGANICS»										
Acetone	ND	ng/kg	0.0100	0.0100	1	9/26/99	8:17	R.Hard	8268B	7924
Benzene	XD	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Hard	8268B	7924
Bronobenzene	20 C	ng/kg	0.0020	8.002 <del>0</del>	1	9/26/99	8:17	R. Hard	8260B	7924
Bronochloronethane	ND.	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Hard	8260B	7924
Tonoforn	ND	ng/kg	0.6620	0.0020	1	9/26/99	8:17	R. Hard	8260R	7924
Brononethane	ND	ng/kg	8.9920	0.0028	1	9/26/99	8:17	R. Hard	8268B	7924
2-Butanone	ND:	ng/kg	0.0190	0.0100	1	9/26/99	8:17	R. Hard	8260B	7924
n-Butylbeazene	XD-	ng/kg	0.0020	8.8020	1	9/26/99	8:17	R. Hard	8260B	7924
sec-Butylbenzene	KD (K	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Nord	82508	7924
t-Butylbenzene	ND D	ng/kg	0.0020*	0,0020	1	9726/99	8:17	R. Nard	82600	7924
Carboa disulfide	ND .	ng/kg	8.8820	0.0020	1	9/26/99	8:17	R. Hard	82608	7924
Carbon tetrachloride	ND	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Hard	8260B	7924
Chlorobenzene	AD.	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Nard	8260B	7924
Chloroethane	ND DK	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Hard	8260B	7924
2-Chloroethylvinglether	KD	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Hard	82608	7924
Chloroforn	XD.	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Hard	82608	7924
Chloromethage	ND	ng/kg	8.0028	0.0020	1	9/26/99	8:17	R. Hard	82608	7924
2-Chlorotolvene	ND	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Nard	8260B	7924
4-Chlorotoluene	ND	Hg/kg	0.0020	0,0020	1	9/26/99	8:17	R. Nard	8260B	7924
1,2-Dibrono-3-chlorogropane	жD	ng/kg	0.0100	0.0100	1	9/26/99	8:17	R. Hard	8260B	7924
Dibronochloronethane	ND	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Nard	82600	7924
1,2-Dibronoethane	KĐ	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Hard	8260B	7924
Dibrononethane	ND	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Nard	8260R	7924
1,2-Dichlorobenzene	XD	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Hard	82608	7924
1,3-Dicklorobenzene	XD	ng/kg	8.8028	0.0020	1	9/25/99	8:17	R. Nard	8260R	7924
1,4-Dichlorobenzene	XD V	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Nard	82608	7924
Dichlorodifluoromethame	XD	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Hard	82608	7924
1,1-Dichloroethane	XD	ng/kg	0.0020	0.0020	ĩ	9/26/99	8:17	R. Hard	8260B	7924
1,2-Dichloroethane	ND	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Hard	8260B	7924
1,1-Dichloroethese	ND	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Hard	8250R	7924
cis-1,2-Dichlorcetheae	XD	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Nord	8260R	7724
trans-1,2-Dichloroetheme	ND	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Hard	82606	7924
1,2-Dichloropropane	ND	ng/kg	8.8020	0.0020	1	9/26/99	8:17	R. Hard	82605	7924
1,3-Dichloropropane	ND	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Nard	8268R	7924
2,2-Dichloropropane	XD	- 40/kg	0.0020	0.0020	1	9/26/99	8:17	R. Nard	8260R	7924



SPECIALIZEL ASSAYS, INC.

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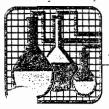
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#### ANALYTICAL REPORT

Laboratory Number: 77-A144300 Sample ID: NFAC-E5-S-03

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A	Recult	11. 1	Report	Quan Liuit	Dil	Data	Time	A	Makkad	Data
Analyte 	Result	Ubits	Linit	Linit	Factor	Date 	Tine	Analyst 	Nethod 	Batel
1,1-Dichloropropene	ND	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Nard	8250B	7924
cis-1,3-Dicaloropropene	80	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Hard	82606	7924
trans-1,3-Dichloropropene	ND	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Hard	8268B	7924
Ethylbenzene	ND.	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Hard	8260R	7924
Hexachlorobutadiene	ND	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Hard	82608	7924
2-Hexanone	ND CH	ng/kg	0.0100	0.0100	1	9/26/99	8:17	R. Hard	8260B	7924
Isopropylbenzene	AD.	Hg/kg	0.0020	0.0020	1	9/26/99	8:17	R. Nard	82608	7924
4-Isopropyltoluene	ND OK	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Hard	8260B	7924
4-Nethyl-2-peatanoae	ND	Hg/kg	0.0100	9.0160	1	9726799	8:17	R. Nard	82500	7924
Methylene chloride	XD XD	Hg/kg	8.9160	0.0100	1	9726799	8:17	R. Hard	8260B	7924
Naphthalene	Ю	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Hard	82606	7924
n-Propyldenzene	MD .	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Nard	8260B	7924
Styrene	ND .	Hg/kg	0.0020	0.0020	1	9/26/99	8:17	R. Hard	8260B	7924
1,1,1,2-Tetrachloroethane	ND	ng/kg	0.6020	0.0020	1	9/26/99	8:17	R. Hard	8260B	7924
1,1,2,2-Tetrachloroethaae	ND	ng/kg	0.0020	0.0020	1	9/26/99	6:17	R. Hard	8260B	7924
Tetrachloroethene	RD	ng/kg	8.0020	0.0020	1	9/26/99	8:17	R. Hard	8260B	7924
Toluene	ND	ng/kg	0.0020	0.0020	1	9/28/99	8:17	R. Nard	82300	7924
1,2,3-Trichlorobenzeae	ND	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Nard	8260R	7924
1,2,4-Trichlorobenzene	XD	ng/kg	0.0020*	0.0020	1	9/26/99	8:17	R. Hard	8260B	7924
1,1,1-Trichloroethame	HD .	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Hard	8269B	7924
1,1,2-Trichloroethane	XD.	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Hard	8260B	7924
Trichloroetheme	8.0420	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Nard	82600	7924
1,2,3-Trichloropropane	XD	ng/kg	8.0029	0.0020	1	9/26/99	8:17	R. Hard	8260B	7924
1,2,4-Trinethylbenzene	ND-	ng/kg	8.0020	0.0020	1	9/26/99	8:17	R. Hard	8260B	7924
1,3,5-Trinethylbenzene	ND .	нд/жд	0.0020	0.0020	1	9/28/99	8:17	R. Nard	-8260F	7924
Viayl chloride	XD	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Hard	8260B	7924
Xylenes	HD	ng/kg	0.0020	0.0020	1	9726/99	8:17	R. Ward	82600	7924
Bronodichloronethane	ND OK	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Hard	8260B	7924
Trichlorofluoromethame	nd	ng/kg	0.0020	0.0020	1	9/26/99	8:17	R. Hard	8260B	7924
*PESTICIDE/PCB'S/HERBICIDE										
Areclor 1016	d N	ng/kg	0.0200	0.0200	1	9/25/99	15: 32	Carnichael	8082	9335
Areclor 1221	ND .	ng/kg	0.0200	0.0200	1	9/25/99	15: 32	Carnichael	8082	9335
Arocler 1232	ND	ng/kg	0.0200	0.0200	1	9725799	15: 32	Carnichael	8082	9335
Broclor 1242	хd	ng/kg	0.0200	0.0200	1	9/25/99	15: 32	Carnichael	8082	9335
Aroclor 1248	XD	ng/kg	0.0200	0.0200	1	9/25/99	15: 32	Carnichael	8082	7335
Aroclor 1254	dk	ng/kg	0.0200	0.0200	1	9725799	15: 32	Carnichael	8082	9335
Aroclor 1260	KD	Hg/kg	0.0200	0.0200	1	9/25/99	15: 32	Carnichael	8082	7335
*GENERAL CHEMISTRY PARAMET	£82¥									
Reactive Cyanide	ND CH	ng/kg	2.0	2.0	1	9/28/99	15:00	CHollingsu	SH-846	1302
Reactive Sulfide	XD	ng/kg	20.0	20.0	1	9/28/99	15:00	CHollingsu	SH-846	1302
Corrosivity	MUT CORROS	TVE				9/23/99	18: 35	NcFarland	1110	8582
Ignitability	Not ignita	able up to	200 F			9/23/99	14:07	S. Brewer	10101	7956



SPECIALIZEL ASSAYS, INC. 2960 Foster Creighton Dr. P.O. Box 40566 Nashville, TN 37204-0566 Phone 1-615-726-0177

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#### ANALYTICAL REPORT

Laboratory Number: 97-A144500 Sample ID: NFAC-ES-5-03

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TCLP Results

Result	N 1 N				
	Units	Reg Linit	Recovery (%)	Date	Nethod
					*****
< 0.10	ng/1	5.0	107	9/30/99	6010B
1.18	ng/1	100	78	9/30/99	60108
< 0.100	ng/1	1.0	101	9/30/99	6010B
< 8.50	Hg/1	5.0	98	9730799	6010B
< 0.500	ng/1	5.0	108	9/30/99	60108
< 0.010	ng/1	8.20	109	9/27/99	7470A
< 8.100	ng/1	1.0	108	9/30/99	6010B
< 0.10	ng/1	5.0	89	9/30/99	66166
Initiated	-			9/22/99	1311
	1.18 < 0.100 < 0.50 < 0.500 < 0.010 < 0.100 < 0.100	1.18 Hg/1 < 0.100 Hg/1 < 0.50 Hg/1 < 0.500 Hg/1 < 0.010 Hg/1 < 0.100 Hg/1	1.18       Hg/l       100         < 0.100	1.18       Hg/l       100       98         < 0.100	1.18         Hg/l         100         78         7/30/77           < 0.100

HD = Not detected at the report limit.

Flash point/ignitability reported to the nearest 10 deg F.

Sample Extracti	ion Data				**	
Paraneter .	Nt/Vol Extracted	Extract Vol	Date	Analyst	Rethod	
PCB's	30.2 gn	10.0 ML	9/23/99	Fitzuater	3550	
Surrogate			X Recovery	Target	Raage	۰.
surr-1,2-Dichle surr-Toluene d surr-4-Bronofle surr-Dibronofle pcb surr-TCMX pcb surr-PCB	B vorobenzene		184. 113. 98. 117. 114. 114.	79. 67. 63. 10.	- 160. - 119. - 135. - 135. - 138. - 130.	

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#### ANALYTICAL REPORT

Laboratory Number: 99-A144300 Sample ID: NFAC-ES-S-03

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These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By:

held & sun

Report Date: 9/30/99

Theodore J. Duello, Ph.D., Lab Director Michael H. Dunn, M.S., Technical Director Johnny A. Mitchell, Dir. Technical Services Eric Smith, Assistant Technical Director Gail A Lage, Technical Services

Laboratory Certification Number: 11342



SVERDRUP CIVIL, INC 9212 ROBERT GRIBBEN 575 S. CHARLES ST, STE 404 BALTIMORE, MD 21201

Project: 000223-D04 Project Name: NIAGRA FALLS USARC(1) Sampler: ROBERT GRIBBEN

ANALYTICAL REPORT

Lab Number: 99-A144501 Sample ID: NFAC-SN-5-04 Sample Type: Soil Site ID:

Date Collected: 9/21/99 Time Collected: 11:30 Date Received: 9/22/99 Time Received: 9:00

Analyte A *VIILATILE URCANICS* Acetone NI Benzene NI Bronobenzene NI Bronochloronethane NI Gronomethane NI 2-Butanome NI n-Butylbenzene NI sec-Butylbenzene NI t-Butylbenzene NI	D D D D D D D D D D D D D	Vaits ng/kg ng/kg ng/kg ng/kg ng/kg ng/kg ng/kg ng/kg	Report Limit  0.0100 0.0020 0.0020 0.0020 0.0020 0.0020 0.0020 0.0020 0.0020 0.0020 0.0020	Quan Linit  0.0100 0.0020 0.0020 0.0020 0.0020 0.0020 0.0020	Dil Factor 1 1 1 1	Date 9/26/99 9/26/99 9/26/99 9/26/99 9/26/99	8:58 8:58 8:58 8:58 8:58 8:58	Analyst R.Ward R.Ward R.Ward R.Ward	Nethod 8260K 8260K 8260K 8260K	8atc 7924 7924 7924
Acetone     NI       Benzene     NI       Bronobenzene     NI       Bronochloronethane     NI       Bronoforn     NI       Brononethane     NI       Brononethane     NI       Brononethane     NI       Brononethane     NI       Brononethane     NI       Brononethane     NI       Sec-Butylbenzene     NI	D D D D D D D D D D D D D	ng/kg ng/kg ng/kg ng/kg ng/kg ng/kg ng/kg	0.0020 0.0020 0.0020 0.0020 0.0020 0.0020	0.0020 0.0020 0.0020 0.0020 0.0020 0.0020	1 1 1	9/26/99 9/26/99 9/26/99	8: 58 8: 58	R. Nard R. Nard	8260B	7924
Acetone Mi Benzene Mi Bronobenzene Mi Bronochloronethane Mi Bronoforn Mi Bronomethane Mi 2-Butanome Mi a-Butylbenzene Mi sec-Butylbenzene Mi	D D D D D D D D D D D D D	ng/kg ng/kg ng/kg ng/kg ng/kg ng/kg ng/kg	0.0020 0.0020 0.0020 0.0020 0.0020 0.0020	0.0020 0.0020 0.0020 0.0020 0.0020 0.0020	1 1 1	9/26/99 9/26/99 9/26/99	8: 58 8: 58	R. Nard R. Nard	8260B	79Z4
Benzene Hi Bronobenzene Hi Bronochloronethane Hi Gronomethane Hi 2-Butanome Hi n-Butylbenzene Hi sec-Butylbenzene Hi	D D D D D D D D D D D D D	ng/kg ng/kg ng/kg ng/kg ng/kg ng/kg ng/kg	0.0020 0.0020 0.0020 0.0020 0.0020 0.0020	0.0020 0.0020 0.0020 0.0020 0.0020 0.0020	1 1 1	9/26/99 9/26/99 9/26/99	8: 58 8: 58	R. Nard R. Nard	8260B	7924
Bronobenzene Mi Bronochloronethane Mi Tronoforn Mi Gronomethane Mi 2-Butanome Mi n-Butylbenzene Mi sec-Butylbenzene Mi	D D D D D D D D D D	ng/kg ng/kg ng/kg ng/kg ng/kg ng/kg	0.0020 0.0020 0.0020 0.0020	0.0020 0.0020 0.0020 0.0020 0.0020	1 1	9726799 9726799	8: 58	R. Nard		
Uronochloronethane M Bronoforn M Uronomethane M 2-Butanome M n-Dutylbenzene M sec-Butylbenzene M	D D D D D D	ng/kg ng/kg ng/kg ng/kg ng/kg	0.0020 0.0020 0.0020	0. 0020 8. 0020 8. 0020	1	9/26/99			8260B	7974
Pronoforn M Gronomethane M 2-Butanome M n-Butylbenzene M sec-Butylbenzene M	D D D D D	ng/kg ng/kg ng/kg ng/kg	0.0020 0.0020	8.0028 0.0020			8: 58	The Manual		
Gronomethane M 2-Butanome M n-Butylbenzene M sec-Butylbenzene M	10 10 10	ng/kg ng/kg ng/kg	0.0020	0.0020	1	9 172 100		R. Nard	8260B	7724
2-Butanone M n-Butylbenzene M sec-Butylbenzene M	D D D	ng/kg ng/kg				71 401 77	8: 58	R. Nard	826DB	7724
n-Butylbenzene M sec-Butylbenzene M	D D	ng/kg	8,0100		1	9/26/99	8: 58	R. Hard	8250B	7924
sec-Butylbenzene X	0			0.0100	1	9/26/99	8: 58	R. Nard	8260R	7924
-			0.0020	8.0020	1	9/26/99	8: 58	R. Nard	8260B	7724
t-Butulheazene N	0	ng/kg	0.0020	8.0020	1	9/26/99	8: 56	R. Hard	8260B	7924
		ng/kg	8,0020	0.0020	1	9/26/99	8:58	R. Hard	8260B	7924
Carbon disulfide XI	D	ng/kg	0.0020	0.0020	1	9/26/99	8: 58	R. Nard	8260R	7924
Carbon tetrachloride 🛛 🕷	D	ng/kg	0.0020	8,0020	1	9/26/99	8:58	R. Hard	8260B	7924
Chlorobeazeae #	D	ng/kg	0.0020	0.0020	1	9/26/99	8: 58	R. Hard	82688	7924
Chloroethane XI	D	na/ka	0.0020	0.0020	1	9/26/99	8:58	R. Hard	8260B	7929
2-Chloroethylvinylether M	D	ng/kg	0.0020	0.0020	1	9/26/99	8: 58	B. Nard	8250B	7924
Chloroforn N	D	ng/kg	0.0020	0.0020	1	9/26/99	8: 58	R. Nard	87600	7924
Chloromethane N	D	ng/kg	0.0020	0.0020	1	9/26/99	8:58	R. Hard	82608	7924
2-Chlorotoluene N	D	ng/kg	0.0020	0.0020	1	9/26/99	8: 58	R. Hard	82600	7924
4-Chlorotolueae X		ng/kg	0.0020	0.0020	1	9/26/99	8:58	R. Hard	82608	7924
1,2-Dibrono-3-chloropropage M		ng/kg	0.0100	0.0100	1	9/26/99	8: 58	R. Nard	8260R	7924
DibromochLoromethane X		ng/kg	0.0020	0.0020	1	9/26/99	8: 58	R. Hard	8260B	7924
1,2-Dibronoethane XI		ng/kg	0.0029	0.0020	1	9/26/99	8:58	R. Hard	8260B	7924
Dibroncnethane XI		ng/kg	0.0020	0.0020	1	9/26/99	8: 38	R. Hard	82600	7924
1,2-Dichlorobenzene X		ng/kg	6.0020	0.0020	1	9/26/99	8:58	R. Hard	82600	7924
1,3-Dichlorobenzene M		ng/kg	0.0020	0.0020	1	9/26/99	8:58	n. Hard R. Nard	82608	7924
1,4-Dichlorobenzene M		ng/ka	0.0020	0.0020	1	9/26/99	0.00 8:58	n. Hard R. Hard	82608	7924
Dichlorodi Fluoronethane M		ng/kg	0.0020	0.0020	1	9/26/99	0. JO 8: 58	n. naru R. Nərd	82608	7924
1,1-Dichloroethane M		nyrxy Ng/Xg	0.0020	0.0020	1	9/26/99	0. JO 8: 58	R. Nard	8260B	7924
1,2-Dichloroethane M	-	ng/kg	0.0020	0.0020	1	9/26/99	o. 50 8: 58	n. Maru B. Nard	8250B	7924
1,1-Dichloroethene XI	-	ng/kg	0.0020	0.0020	1			R. Nard		
cis-1,2-Dichloroethene N	-		0.0020	0.0020 9.0020	1	9/26/99	8: 58 8: 58	r. Nard R. Hard	8260B 8260B	7924 7924
trans-1,2-Dichloroethene Ni	-	ng/kg na <i>lica</i>				9/26/99				
1,2-Dichloropropane W		ng/kg	0.0020	0.0020	1	9/26/99	8:58	R. Ward	8260B	7924
1,3-Dichloropropane M		ng/kg	0.0020	0.0020	1	9/26/99	8:58	R. Hard	8268B	7929
2,2-Dichloropropane H		ng/kg ==g/kg	0.0020 0.0020	0.0020 0.0020	1 1	9/26/99 9/26/99	8: 58 8: 58	R. Hard R. Hard	82608 82608	7924 7924



SPECIALIZEL ASSAYS, INC. 2960 Foster Creighton Dr. P.O. Box 40566 Nashville, TN 37204-0566 Phone 1-615-726-0177

#### ANALYTICAL REPORT

Laboratory Number: 99-A144501 Sample ID: NFAC-SN-S-04

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·	<b>.</b>		Report	สูบออ	Dil	<b>.</b> .				
Analyte	Result	Ubits	Linit	Linit	Factor	Date	Tine 	Analyst	Method 	Batc
1,1-Dichloropropene	жÐ	ng/kg	0.0020	6. 6020	1	9/26/99	8: 58	R. Nard	8250R	7924
cis-1,3-Dickloropropene	HD.	ng/kg	0.0020	0.0020	1	9/26/99	8:58	R. Hard	6260B	7924
traas-1,3-Dichloropropene	20	ng/kg	0.0020	0.0020	1	9/26/99	8: 58	R. Hard	82608	7924
Ethylbenzene	ND OK	ng/kg	0.0020	0.0020	1	9/26/99	8: 58	R. Hard	8260B	7924
Hexachlorobutadiene	ND-	ng/kg	0.0020	0.0020	1	9/26/99	8: 58	R. Hard	8260B	7924
2-Hexanone	ND	ng/kg	0.0100	0.0160	1	9/26/99	8: 58	R. Hard	8260B	7924
Esopropylbenzene	ХD	ng/kg	0.0020	0.0020	1	9/26/99	8:58	R. Hard	8260B	7924
+Isopropyltoluene	RD	ng/kg	0.0020	0.0029	1	9/26/99	8: 58	R. Hard	82606	7924
4-Netbyl-2-pentanope	ND	ng/kg	0.0100	0.0100	1	9/26/99	8: 58	R. Nard	82608	7924
fethylene chloride	DK	ng/kg	0.0100	0.0100	1	9/26/99	8: 58	R.Nard	8260R	7924
Kaphthalene	XD.	ng/kg	0.0020	0.0020	1	9/26/99	8: 58	R. Hard	8260B	7924
n-Propgibenzene	ND	ng/kg	0.0020	0.0020	1	9/26/99	8:58	R. Hard	82608	7924
Sterene	DK	ng/kg	0.0020	0.0020	1	9/25/99	8: 58	R. Nard	8260B	7924
1,1,1,2-Tetrachloroethame	RD (CH	ng/kg	0.0020	0.0020	1	9/26/99	8: 58	R. Hard	8260B	7924
1,1,2,2-Tetrachloroethane	ND OK	ng/kg	0.0020	0.0020	1	9/26/99	8:58	R. Hard	8260B	7924
Tetrachloroethene	HD CH	ng/kg	0.0020	0.0020	1	9/26/99	8:58	R. Hard	8260B	7924
Toluese	DK	ng/kg	0.0020	0.0020	1	9/26/99	8: 58	R. Nard	82601	7924
1,2,3-Trichlorobenzene	ND	ng/kg	0.0020	0.0020	1	9/26/99	8:58	R. Hard	8260B	7924
1,2,4-Trichlorobenzene	ND CH	ng/kg	0.0020*	0.0020	1	9/26/99	8:58	R. Hard	8260B	7924
1,1,1-Trichloroethane	ND	ng/kg	0.8820	8.0829	1	9/26/99	8:58	R. Hard	8260B	7924
1,1,2-Trichloroethane	ND	ng/kg	0.0020	0.0020	1	9/26/99	8:58	R. Hard	8260B	7924
Tricaloroetheae	0.0066	ng/kg	0.0020	0.0020	1	9/26/99	8:58	R. Hard	8260B	7924
1,2,3-Trichloropropane	ND	ng/kg	0.0020	9.0020	1	9/26/99	8:58	R. Hard	8260B	7924
1,2,4-Trimethylbenzene	80	ng/kg	0.0020	0.0020	1	9/26/99	8:58	R. Hard	8260B	7924
L,3,5-Trinethylbenzene	2X0	ng/kg	0.0020	0.0020	1	9/26/99	8:58	R. Hard	·.8260B	7924
Jiayl chloride	ND	ng/kg	0.0020	0.0020	1	9/26/99	8: 58	R. Nard	8260B	7924
Xylenes	ND	ng/kg	0.0020	0.0020	1	9/26/99	8: 58	R. Hard	8260B	7924
Bromodichloromethame	ND	ng/kg	0.0020	0.0020	1	9/26/99	8:58	R. Hard	82600	7924
Trichlorofluoromethane	ND	ng/kg	0.0020	0.0020	1	9/26/99	8:58	R. Hard	8260B	7924
*PESTICIDE/PCB's/HERRICIDE	2¥									
Broclor 1016	ND	ng/kg	8.8208	0.0200	1	9/25/99	15:54	Carnichael	808Z	9335
Aroclor 1221	ND	ng/kg	0.0200	0.0200	1	9/25/99	15: 54	Carmichael	8082	9335
Proclor 1232	ХD	ng/kg	0.0200	0.0200	1	9/25/99	15: 54	Carnichael	8082	9335
Aroclor 1242	ND	ng/kg	0.0200	0.0200	1	9/25/99		Carnichael	8082	9335
Proclor 1248	KD	ng/kg	0.8200	0.0200	1	9/25/99		Carnichael	8082	9335
Proclor 1254	ND CH	ng/kg	0.0200	0.0200	1	9/25/99		Carnichael	8082	9335
Broclor 1260	ND	ng/kg	0.0200	0.0200	1	9/25/99		Carnichael		7335
GENERAL CHERISTRY PARAMET	ERSX									
Reactive Cyanide	ND	ng/kg	2.8	2.8	1	9/28/99	15:00	CHollingsu	3H-846	1302
Reactive Sulfide	AD.	ng/kg	28. 0	20.0	1	9/28/99	15:00	CHollingsu		1302
Corrosivity	NOT CORRES					9/23/99		NcFarland	1119	8582
Igaitability	Not ignita	hle un to	200 5			9/23/99	12.24	S. Brener	1010M	8437



ASSAYS, INC. 2960 Foster Creighton Dr. P.O. Box 40566 Nashville, TN 37204-0566

Phone 1-615-726-0177

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22.

#### ANALYTICAL REPORT

Laboratory Number: 99-A144301 Sample ID: NFAC-SN-S-04

Page 3

TCLP Results

	Matrix Spike								
Analyte	Result	Units	Reg Linit	Recovery (%)	Date	Nethod			
*** *** (** 01 44 192 *** 192 *** 193 97 97 97 193 *** 193 *** 193 *** 193 *** 193				می میں میں میں علم میں (یہ میں میں میں میں ہیں اور		Million Address also dill'i tem address			
Arseaic	< 0.10	ng/1	5.0	107	9/30/9 <del>9</del>	6010B			
Bariun	< 1.00	ng/1	100	78	9/30/99	6010B			
Cadmium	< 0.100	ng/1	1.0	101	9730/99	60108			
Chronium	< 8,58	ng/1	5.0	98	9730/99	60108			
Lead	< 8.500	ng/1	5.0	108	7/30/77	60108			
fercurg	< 0.010	ng/1	0.20	109	9/27/99	7470A			
Selenium	< 0.100	ng/1	1.0	108	7/30/99	6010B			
Silver	< 8.18	Hg/1	5.0	87	9/30/99	60100			
TCLP Extraction	Initiated	-			9/22/99	1311			

ND = Not detected at the report limit.

Flash point/ignitability reported to the mearest 10 deg F.

Sample Extraction D	ata					
Paraneter	Nt/Vol Extracted	Extract Vol	Bate	* Analyst 	Nethod	
PCB's	30.5 gn	10.0 nl	9/23/99	Fltzuater	3550	
Surrogate			X Recovery	Targe 	et Range	۰.
surr-1,2-Dichloroet surr-Toluene d8	hane, d4		95. 113.		8 168. 7 119.	

Soll-Jotogue ad	115.	<i>17 117.</i>
surr-4-Bronofluorobeazeae	97.	69 135.
surr-Dibronofluoronethane	111.	63 135.
pcb surt-TCNX	117.	10 138.
pcb surr-PCB	114.	15 130.



SPECIALIZE

#### ANALYTICAL REPORT

Laboratory Number: 99-A144501 Sample ID: NFAC-SN-S-04

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Report Approved By:

Herd A run

Report Date: 9/30/99

Theodore J. Duello, Ph.D., Lab Director Michael H. Dunn, M.S., Technical Director Johnny A. Mitchell, Dir. Technical Services Eric Smith, Assistant Technical Director Gail A Lage, Technical Services

Laboratory Certification Number: 11342



ANALYTICAL REPORT

SVERDRUP CIVIL, INC 9212 ROBERT GRIBBEN 575 S. CHARLES ST, STE 404 BALTIMORE, MD 21201

Project: 000223-D04 Project Name: NIAGRA FALLS USARC(1) Sampler: ROBERT GRIBBEN Lab Number: 99-A144502 Sample ID: NFAC-ES-S-03 Sample Type: Soil Site ID:

Date Collected: 9/21/99 Time Collected: 11:30 Date Received: 9/22/99 Time Received: 9:00

			Report	สิบจร	Dil	-				
Analyte 	Result	Units	Linit	Linit	Factor	Date	Time	Analyst 	Nethod	Batch
NURGANIC PARAMETERSN										
Naphthalene	ND	ng/kg	8.165	0,165	1	9/24/99	12:43	n. Cobb	82700	9214
Acenapthene	ND	ng/kg	0.165	0.165	1	9/24/99	12:43	N. Cobb	82700	9214
Anthracene	ND	ng/kg	8.165	0.165	1	9/24/99	12:43	ñ. Cobb	82700	9214
Fluoranthene	ND	ng/kg	0.165	0.165	1	9/24/99	12:43	fl. Cobb	82700	9214
Fluorene	ND CK	ng/kg	0.165	0.165	1	9/24/99	12:43	n. Cobb	82700	7214
Pyrene	ND	ng/kg	0.165	0.165	1	9/24/99	12:43	n. Cobb	8278C	9214
Benzo(a)anthracene	ND	ng/kg	0.165	0.165	1	9/24/99	12:43	fl. Cobb	82700	9214
Beazo(a)pyrese	dk	ng/kg	0.165	0.165	1	9/24/99	12:43	n. Cobb	8270C	9214
Benzo(b)fluoranthene	D	ng/kg	0.145	0.165	1	9/24/99	12:43	H. Cobb	8278C	9214
Benzo(k)fluoranthene	ND OK	ng/kg	8.165	0.165	1	9/24/99	12:43	N. Cobb	8270C	9214
Chrysene	<b>D</b> K	ng/kg	8.165	0.165	1	9/24/99	12:43	n. Cobb	8270C	9214
Dibenzo(a,h)anthracene	NĐ.	ng/kg	8.165	0.155	1	9/24/99	12:43	N. Cobb	82700	9214
Indeno(1,2,3-cd)pyrene	ND CK	ng/ka	8.155	0.165	1	9/24/99	12:43	N. Cobb	8270C	9214
Benzo(g,h,i)perglene	ND	ng/kg	0.165	0.165	1	9/24/99	12:43	M. Cobb	8270C	9214
Phenanthrene	DK	ng/kg	0.165	0.165	1	9/24/99	12: 43	n. Cobb	8278C	9214
*VULATILE URGANICS by GC*									<b>`</b> .	
Reszene	КD	ng/kg	0.0010	0.0010	1	9/23/99	15:15	T McCollum	8021B	9480
a-Butylbenzene	XD	ng/kg	0.0010	0.0010	1	9/23/99	15:15	T NcCollum	80218	9480
sec-Butylbenzene	ND OK	ng/kg	0.0010	0.0010	1	9/23/99	15:15	T NcCollum	8821B	9480
tert-Butylbenzene	XD CK	ng/kg	0.0010	0.0010	1	9/23/99	15:15	T NcCollum	80218	9480
Ethylbenzene	dK D	ng/kg	0.0010	0.0010	1	9/23/99	15:15	T McCollum	8021B	9480
Isopropylbenzene	an Gr	ng/kg	8.0010	0.0001	1	9/23/99	15:15	T McCollum	80216	9480
4-Isopropyltoluene	RD	ng/kg	0.0010	0.0010	1	9/23/99	15:15	T McCollum	80218	9480
a-Propylbeszene	dk	ng/kg	0.0010	0.0010	1	9/23/99	15:15	T McCollun	8021B	9480
Toluene	нd	ng/kg	0.0010	0.0010	1	9/23/99	15:15	T McCollum	80210	7480
1,2,4-Trimethyldenzene	MD.	ng/kg	0.0010	0.0010	1	9/23/99	15:15	T McCollum	80210	9480
1,3,5-Trimethylbenzene	ND	ng/kg	0.0010	0.8010	1	9/23/99	15:15	T McCollum	80218	9480
n,p-Xyleaes	ND	ng/kg	0.0010	0.0010	1	\$/23/79	15:15	T McCollum	8021B	9480
o-Xylese	ND	ng/kg	0.0010	0.0010	1	9/23/99	15:15	T McCollum	80218	9480

ND = Not detected at the report limit.

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#### ANALYTICAL REPORT

Laboratory Number: 77-A144302 Sample ID: NFAC-ES-S-03

Page 2

Sample Extraction Data

Paraneter 	Nt/Vol Extracted	Extract Vol	Date	Analyst	Nethod	
[01A15	29.6 gn	1.6 81	9/23/99	Fitzuater	3558	
Surrogate	a dhadha china an ann an		% Recovery	Target	: Range	
PID Surr., a,a,a-tr surr-Hitrobenzene-d surr-2-Fluorobiphen surr-Terphenyl d14 Hall Surr., chlorop Hall Surr., 1-chlor	5 yl rene	n.	99. 47. 52. 56. 98. 85.	20. 13. - 27. 67.	- 150. - 110. - 110. - 128. - 125. - 137.	

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Report Approved By:

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Report Date: 9/30/99

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Theodore J. Duello, Ph.D., Lab Director Michael H. Dunn, M.S., Technical Director Johnny A. Mitchell, Dir. Technical Services Eric Smith, Assistant Technical Director Gail A Lage, Technical Services

Laboratory Certification Number: 11342



# **Y**

SPECIALIZEL ASSAYS, INC. 2960 Foster Creighton Dr. P.O. Box 40566 Nashville, TN 37204-0566 Phone 1-615-726-0177

SVERDRUF CIVIL, INC 9212 ROBERT GRIBBEN 575 S. CHARLES ST, STE 404 BALTIMORE, MD 21201

Project: 000223-D04 Project Name: NIAGRA FALLS USARC(1) Sampler: ROBERT GRIBBEN

# ANALYTICAL REPORT

Lab Number: 99-A144503 Sample ID: NFAC-5N-5-04 Sample Type: Soil Site ID:

Date Collected: 7/21/77 Time Collected: 11:30 Date Received: 7/22/77 Time Received: 7:00

Analyte	Result	Units	Report Linit	Ruan Linit	Dil Factor	Date	Tine	Analyst	Nethod	Batch
					141 - 15 15 - 14 17 17			به همین خانید می در در می مر		
×ursanic parameters×										
Kaphthalene	ND.	ng/kg	0.165	0.165	1	9/24/99	13: 21	N. Codd	8270C	9214
Aceaaptheae	80 (BK	ng/kg	0.165	0.165	1	9/24/99	13:21	ff. Cobb	82700	9214
Anthracene	XD	ng/kg	0.165	0.165	1	9/24/99	13:21	M. Cobb	8278C	921.4
luorsathese	AD CK	ng/kg	0.165	0.165	1	9/24/99	13: 21	n. Codb	8270C	9214
Fluorene	AD.	ng/kg	8.165	8.165	1	9724799	13:21	n. Cobb	82700	9214
Fyrene	rd.	ng/kg	8.155	8.165	1	9/24/99	13:21	N. Cobb	82700	9214
Benzo(a)anthracene	ХD	ng/kg	0.165	0.165	1	9/24/99	13:21	N. Cobb	8270C	9214
leazo( a) pyrene	ND	ng/kg	0.165	8.165	1	9/24/99	13: 21	n. Cobd	8270C	9214
(leazo(b)fluoranthese	AD	ng/kg	0.165	0.165	1	9/24/99	13: 21	n. Cobb	8270C	7214
(eazo(k)fluorasthese	ak j	ng/kg	0.165	0.165	1	9/24/99	13: 21	n. Codb	8270C	9214
Chrysene	жD	ng/kg	0.165	0.165	1	9/24/99	13:21	N. Cobb	82700	9214
)ibenzo(a,h)anthracene	ND .	ng/kg	8.165	8.165	1	9/24/99	13:21	N. Cobb	8278C	9214
Indeno(1,2,3-cd)pyrene	ND	ng/kg	8,165	0.165	1	9/24/99	13:21	n. Codd	8270C	9214
Benzo(g,h,i)perglene	ND	ng/kg	0.165	0.165	1	9/24/99	13:21	N. Cobb	82780	9214
Phenanthrene	ND	ng/kg	8.165	8, 165	1	9/24/99	13: 21	n. Codd	8270C	9214
<b>WOLATILE ORGANICS by GC</b> *									•.	
Benzene	ND	ng/kg	0.0010	0.0010	1	9/23/99	15:15	T NcCollun	80218	9460
a-Butglbenzene	ND	ng/kg	6.0010	0.0019	1	9/23/99	15:15	T McCollum	80218	9480
sec-Butylbenzene	ND	ng/kg	0.0010	0.0010	1	9/23/99	15:15	T McCollun	80218	9480
tert-Dutylbenzene	ND	ng/kg	8.0010	8.001.0	1	9/23/99	15:15	T McCollum	80218	7480
Ethylbenzene	ND.	ng/kg	0.0010	0.0010	1	9/23/99	15:15	T McCollum	80218	9480
Isopropylbenzene	XD.	ng/kg	0.0010	0.0001	1	9/23/99	15:15	T McCollum	8021B	9480
4-Isopropultolvene	ND	ng/kg	0.0010	0.0010	1	9/23/99	15:15	T McCollum	80218	9480
n-Propulbenzene	ND	ng/kg	0.0010	0.0010	1	9/23/99	15:15	T McCollun	80218	9480
Toluese	ND	ng/kg	0.0010	0.0010	1	9/23/99	15:15	T McCollum	8021R	9480
1,2,4-Trinethylbenzene	КD	ng/kg	0.0010	0.0010	1	9/23/99	15:15	T McCollum	80218	9480
1,3,5-Trinethylbenzene	ЯD	ng/kg	8.0010	0.0010	1	9/23/99	15:15	T McCollun	8021R	9480
n,p-Xyleaes	ND	ng/kg	0.0010	0.0010	1	9/23/99	15:15	T McCollun	80218	9480
o-Xylene	ND	ng/kg	0.0010	0.0010	1	9/23/99	15:15	T McCollum	8021B	7480

HD = Not detected at the report limit.



FCIALIZZ ASSAYS. INC 2960 Foster Creighton Dr.

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#### ANALYTICAL REPORT

Laboratory Number: 99-A144503 Sample ID: NFAC-SN-S-04

Page 2

Sample Extraction Data

Paraneter	Nt/Vol Extracted	Extract Vol	Date	Analyst	Nethod	
I0HA*5	29.7 gn	1.8 nl	9/23/99	Fitzuater	3550	
Surrogate			% Recovery	Targe	t Range	
PID Surr., a,a,a-tri	Fluorotolue	86	<b>98</b> .	50	150.	
surr-Nitrobenzene-d5			56.	20	110.	1 <b>-</b>
surr-2-Fluorobipheny	1		61.	18	110.	. ·
surr-Terphengl d14		~	63.	- 27	128.	
Hall Surr. , chloropr	eae		96.	67	125.	
Hall Surr., 1-chloro	-3-fluorobe	nzene	89.	50	137.	

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Report Approved By:

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Report Date: 9/30/99

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Theodore J. Duello, Ph.D., Lab Director Michael H. Dunn, M.S., Technical Director Johnny A. Mitchell, Dir. Technical Services Eric Smith, Assistant Technical Director Gail A Lage, Technical Services

Laboratory Certification Number: 11342



# PROJECT QUALITY CONTROL DATA

Natrix Spike Duplicate

Apalyte	units	Orig. Vəl.	Duplicate	RPD	Linit	9.C. Batch
1,1-Dichloroethene	ng/kg	8.0542	0.0565	4.15	21.	7924
Toluese	ng/kg	8. 0521	0.0538	3.21	20.	7924
Trichloroetheae	ng/kg	0.0533	0.0542	1.67	22.	7924
Beazeae	ng/kg	0.0173	0.0203	5.05	19.	9480
Toluese	ng/kg	0. 0193	0.0201	4.06	17.	7480
n,p-Xylenes	ng/kg	0.0390	0.0410	5.80	20.	7480
Aroclor 1260	ng/kg	0.1828	0.1861	1.79	46.	9335

Laboratory Control Data

Analyte	units	Xnown Val.	Analyze4 Val	% Recovery	Target Raage	Q.C. Batch
Kaphthalene	ng/kg	1.67	1.22	73	60 - 140	9214
Acenapthese	ngræg	1. 67	1.05	\$3	60 - 140	9214
Asthraceae	ng/kg	1.67	1.16	69	60 - 140	9214
Fluoraatheae	ng/kg	1.67	1.29	77	60 - 140	9214
Fluorese	Hg/kg	1.67	1.22	73 🦼	60 - 140	9214
Pyrene	ng/kg	1.67	1.35	31	<b>30 - 140</b>	9214
Benzo(a)anthracene	ng/kg	1.67	1.35	81	60 - 140	9214
Beazo(a)pyreae	ng/kg	1.67	1.22	73	60 - 140	9214
Nenzo(b)fluoranthene	ng/kg	1.67	1.12	67	60 - 140	9214
Nenzo(k)fluoranthese	ng/kg	1.67	1.48	87	60 - 140	9214
Chryseae	ng/kg	1. 67	1.45	87	60 - 140	9714
Dibenzo(a,h)asthracese	ng/kg	1.67	1.52	91	60 - 140	9214
Indeno(1,2,3-cd)pyrene	ng/kg	1.67	1.42	85	60 - 148	9214
Benzo(g,h,i)perylene	ng/kg	1.67	1.42	85	60 - 140	9214
Phenanthrene	ng/kg	1.67	1.19	71	60 - 140	9214
Acetone	ng/kg	0, 2500	0.4000	160 #	70 - 130	7924
Beazeae	ng/kg	0.0500	0.0537	107	70 - 130	7924
Bronobenzene	ng/kg	0.0500	0.0502	100	70 - 130	7924
Bronochloromethane	ng/kg	0.0500	0.0527	185	70 - 130	7924
Bronoform	ng/kg	0.0500	0.0512	102	70 - 130	7924
Bronomethane	ng/kg	0.0500	0.0584	117	70 - 130	7924
2-Butanone	ng/kg	0.2500	0.3618	144 🛊	70 - 130	7924
n-Wutylbenzene	ng/kg	0.0500	0.0531	106	70 - 130	7924
sec-Butylbenzene	ng/kg	0.0500	0.0511	102	70 - 130	7924
t-Butylbeszese	ng/kg	0.0500	0.0514	103	70 - 130	7924
Carbon disulfide	ng/kg	0.0500	0.0557	111	70 - 130	7924
Carbon tetrachloride	ng/kg	0.0500	0.0549	110	70 - 130	7924
Chlorobenzene	ng/kg	0.0500	0.0506	101	70 - 130	7924
Chloroethage	ng/kg	0.0509	0.0593	117	70 - 130	7924
2-Chloroethylvinglether	ng/kg	0.2580	0.2720	197	70 - 130	7924
Chloroforn	ng/kg	8.0500	0.0566	113	70 - 130	7924
Chloromethane	ng/kg	0.0500	0.0578	116	70 - 130	7924
2-Calorotolueae	ng/kg	0.0500	0.0500	100	70 - 130	7924
4-Chlorotoluene	ng/kg	0.0500	0.0530	106	70 - 130	7924



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#### PROJECT QUALITY CONTROL DATA

Matrix Spike Recovery

Asalyte 	UBITS	Orig. Val.	NS Vəl	Spike Conc	Recovery	Target Range	A.C. Batch
Kaphthalene	ng/kg	< 0.165	< 0.165	3. 33	H/A	54 128.	9214
Acesapthene	ng/kg	< 0.165	1.52	3. 33	463	52 120.	9214
Anthracene	ng/kg	< 0.165	< 0.165	3.33	R/A	58 132.	9214
Fluoranthene	ng/kg	< 0.165	< 0.165	3. 33	R/A	58 139.	9214
Fluorese	ng/kg	< 0.165	< 0.165	3.33	H/A	63 138.	9214
Pyrene	ng/kg	< 0.165	1.62	3.33	49	27 137.	9214
Beazo(a)anthracene	ng/kg	< 0.165	< 0.165	3.33	X/A	59 120.	9214
Benzo(a)pyrene	ng/kg	< 0.165	< 0.165	3.33	8/8	42 142.	9214
Benzo(b)fluoranthene	ng/kg	< 0.165	< 0.165	3.33	X/A	47 128.	9214
Benzo(k)fluoranthene	ng/kg	< 0.165	< 0.165	3, 33	<del>8</del> /8	52 146.	9214
Chrysene	ng/kg	< 0.165	< 0.165	3.33	<del>8</del> /8	68 132.	9214
Dibenzo(a,b)anthracene	ng/kg	< 0.165	< 0.165	3.33	<del>8</del> /8	51 119.	9214
Indeno(1,2,3-cd)pyrene	ng/kg	< 0.165	< 0.165	3. 33	X/A	53 153.	7214
Benzo(g,h,l)perglene	ng/kg	< 0.165	< 0.165	3.33	<b>X/</b> 8	58 112.	9214
Phenanthrene	ng/kg	< 0.165	< 0.165	3.33	8/8	67 129.	9214
Benzene	ng/kg	< 0.0020	0.0533	0.0500	107	62 147.	7924
Chlorobenzese	ng/kg	< 0.0020	0.0524	0.0500	105	59 141.	7924
1,1-Dichloroethene	ng/kg	< 0.0020	0.0542	0.0500	108	61 143.	7924
Toluene	ng/kg	< 0.0020	0.0521	0.0500	104	57 156.	7924
Trichloroethene	ng/kg	< 0.0020	0.0533	0.0500	107	60 158.	7924
Benzene	ng/kg	< 0.0010	0.0173	0.0200	96	67 137.	9480
Toluene	ng/kg	< 0.0010	0.0193	0.8200	96	<b>55 139.</b>	9480
n,p-Xglenes	ng/kg	< 0.0010	0.0390	0.0400	<del>78</del>	58 136.	9480
Aroclor 1260	ng/kg	< 0.0200	0.1828	0.1667	118	17 145.	9335

#### Matrix Spike Duplicate

Analyte	units	Orig. Val.	Ouplicate	rpd	Linit	Q.C. Batch
Naphthalene	ng/kg	< 0.165	< 0.165	X/A	15.	9214
Acenapthese	ng/kg	1.52	1.39	8.93	13.	9214
Astbracese	ng/kg	< 0.165	< 0.185	N/A	17.	7214
Fluoranthese	ng/kg	< 0.165	( 0.165	N/A	15.	9214
Fluorene	ng/kg	< 0.165	< 0.165	X/A	16.	9214
Pyrese	ng/kg	1.62	1.32	20.413	20.	9214
Benzo(a)asthracese	ng/kg	< 0.155	< 0.155	X/A	21.	9214
Senzo( a) pyrene	ng/kg	< 8.165	< 8, 165	8/8	20.	9214
Benzo(b)fluoranthene	ng/kg	< 0.165	< 0.165	X/A	25.	9214
Benzo(k)fluoranthese	ng/kg	< 0.165	< 0.165	X/A	43.	9214
Chrysene	ng/kg	< 0.165	< 0.165	X/A	11.	9214
Dibenzo(a,h)anthracene	ng/kg	< 0.165	< 8.165	N/A	37.	9214
Indeno(1,2,3-cd)pyrene	ng/kg	< 0.165	< 8.165	X/A	48.	9214
Reazo(g,b,i)pergleae	ng/kg	< 0.165	< 0.165	R/A	45.	9214
Phenaathreae	ng/kg	( 0.165	< 0.165	N/A	17.	9214
Benzene	ng/kg	0.0533	0.0550	3.14	20.	7924
Chlorobenzene	ng/kg	0.0524	0.0517	0.96	29.	7924



## PROJECT QUALITY CONTROL DATA

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#### Laboratory Control Data

Analyta	units	Kaowa Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
1,2-Dibrono-3-chloropropase	ng/kg	0.0500	8.0567	113	70 - 130	7924
Dibronochloromethase	ng/kg	0.0500	0.0515	103	70 - 130	7924
1,2-Dibromoethane	ng/kg	0.0500	0.0354	111	70 - 130	7924
Dibrononethane	ng/kg	0.0500	0.0532	106	70 - 130	7924
1,2-Dichlorobenzese	ng/kg	0.0500	0.0513	103	70 - 130	7924
1,3-Dichlorobenzene	ng/kg	0.0500	0.0515	103	70 - 130	7924
1,4-Dichlorobenzene	ng/kg	0.0500	8.0504	101	70 - 130	7724
Dicalorodifluoromethane	ng/kg	0.0500	0.0566	113	70 - 130	7924
1,1-Dichloroethane	ng/kg	0.0500	0.0541	108	70 - 130	7924
1,2-Dichloroethame	ng/kg	0.0500	0.0541	108	70 - 130	7924
1,1-Dichloroetheae	ng/kg	0.0500	0.0549	110	70 - 130	7924
cis-1,2-Dichloroethene	ng/kg	8.0500	0.0525	105	70 - 130	7924
trans-1,2-Dichloroethene	ng/kg	0.0500	0.0539	108	70 - 130	7924
1,2-Dichloropropane	ng/kg	0.0500	0.0548	110	70 - 130	7924
1,3-Dichloropropase	ng/kg	0.0500	8.0534	107	70 - 130	7924
2,2-Dichloropropage	ng/kg	0.0500	0.0545	107	70 - 130	7924
1,1-Dichloropropese	ng/kg	0.0500	0.0554	111	70 - 130	7924
cis-1,3-Dichloropropene	ng/kg	0.0500	0.0525	105	70 - 130	7924
trans-1,3-Dichloropropene	ng/kg	8.0500	0.0530	106	70 - 130	7924
Ethylbenzene	ng/kg	0.0500	0.0519	104	70 - 130	7924
Hexachlorobutadiese	ng/kg	0.0500	0.0457	91	70 - 130	7924
2-Hexanone	ng/kg	0.2500	0.3400	136 #	70 - 130	7924
Isopropylbenzene	ng/kg	0.0500	0.0523	105	70 - 130	7924
4-Isopropyltoluene	ng/kg	0.0500	0.0493	<b>7</b> 9	70 - 130	7924
4-Nethyl-2-pentanone	ng/kg	0.2500	0. 3170	128	70 - 130	7924
Nethylene chloride	ng/kg	0.0500	0.0545	107	70 - 130	7924
Xaphthalene	ng/kg	0.0500	0.0529	106	70 - 130	7924
a-Propylbenzene	ng/kg	0.0500	0.0521	104	70 - 130	7924
Styrene	ng/kg	0.0500	0.0504	101	70 - 130	7924
1,1,1,2-Tetrachloroethane	ng/kg	0.0500	0.0512	102	70 - 130	7924
1,1,2,2-Tetrachloroethame	ng/kg	0.0500	0.0542	108	70 - 130	7924
Tetrachloroethene	Hg/kg	0,0500	0.0507	101	70 - 130	7924
Toluene	ng/kg	0.0500	8.8529	104	70 - 130	7924
1,2,3-Trichlorobenzene	ng/kg	0.0500	0.0422	84	70 - 130	7924
1,2,4-Tricblorobeszene	ng/kg	0.0500	0.03%	79	78 - 130	7924
1,1,1-Trichloroethame	ng/kg	0.0500	0.0563	113	70 - 130	7924
1,1,2-Trichloroethame	ng/kg	0.0500	0.0548	110	70 - 130	7924
Tricbloroethese	ng/kg	0.0500	0.0527	105	70 - 130	7924
1,2,3-Trichloropropane	ng/kg	0, 0500	0.0582	115	70 - 130	7924
1,2,4-Trimethylbenzene	ng/kg	0.0500	0. 8472	98	70 - 130	7924
1,3,5-Trimethylbenzene	ng/kg	0.0500	0.0493	100	70 - 130	7924
Vinyl chloride	ng/kg	0.0580	0.0554	111	70 - 130	7924
Xylenes	ng/kg	8.1500	0.1513	101	70 - 130	7924
Bronodichloronethane	ng/kg	0.0500	0.0544	109	70 - 130	7924
Trichlorofluoronethane	ng/kg	0.0500	0.0563	113	70 - 130	7924
Benzene	ng/kg	0.0200	0.0200	100	70 - 130	9480



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### PROJECT QUALITY CONTROL DATA

#### Blank Data

Analyte	Rlank Value	Units	9.C. Batch
Bronoforn	< 8.0020	ng/kg	7924
Brononethane	< 0.0020	ng/kg	7924
2-Rutanone	< 0.0100	ng/kg	7924
n-Butylbenzene	< 0.8020	ng/kg	7924
sec-living) beazene	< 0.0020	ng/kg	7924
t-Kutylbenzene	< 0.0020	ng/kg	7924
Carbon disulfide	< 0.0020	ng/kg	7924
Carbon tetrachloride	< 0.0020	ng/kg	7924
Chlorobenzene	< 0.0020	ng/kg	7924
Chloroethase	< 0.0020	ng/kg	7924
2-Chloroethylvinylether	< 0.0020	ng/kg	7924
Chloroform	< 0.0020	ng/kg	7924
Chloronethase	< 0.0020	ng/kg	7924
2-Chlorctoluene	< 8.00Ž0	ng/kg	7924
4-Chlorotoluene	< 0.0020	ng/kg	7924
1,2-Dibrono-3-chloropropa	ine < 0.0100	ng/kg	7924
Dibronochloronethane	< 0.0020	ng/kg	7924
1,2-Dibronoethane	< 0.0020	ng/kg	7924
Dibronomethane	< 0.0020	ng/kg	7924
1,2-Dichlorobenzene	< 0.0020	ng/kg	7924
1,3-Dichlorobenzene	< 0.0020	ng/kg	7924
1,4-Dichlorobenzene	< 0.0020	ng/kg	7924
Dichlorodifluoromethane	< 0.0020	ng/kg	7924
1,1-Dichloroethame	< 0.0020	ng/kg	7924
1,2-Dichloroethane	< 0.0020	ng/kg	7924
1,1-Dichloroethese	< 0.0020	ng/kg	7924
cis-1,2-Dichloroetheme	< 0.0020	ng/kg	7924
trans-1,2-Dichloroethese	< 0.0020	ng/kg	7924
1,2-Dichloropropane	< 8.0028	ng/kg	7924
1,3-Dichloropropane	< 0,0020	ng/kg	7924
2,2-Dichloropropane	< 0.0020	ng/kg	7924
1,1-Dichloropropene	< 0.0028	ng/kg	7924
cis-1,3-Dichloropropene	< 0.0020	ng/kg	7924
trans-1,3-Dichloropropene	¢ 0.0020	ng/kg	7924
Ethylbenzene	< 0.0020	ng/kg	7924
Hexachlorobutadiese	< 0.0020	ng/kg	7924
2-Hexanone	< 0.0100	ng/kg	7924
Isopropylbenzene	< 0.0020	ng/kg	7924
4-Isopropyltoluene	< 0.0020	ng/kg	7924
4-Nethyl-2-pestanose	< 0.0100	ng/kg	7924
Methylene chloride	< 0.0020	ng/kg	7924
Naphthalene	< 0.8020	ng/kg	7924
n-Propylbeszene	< 0.0020	ng/kg	7924
Styrene	< 0.0020	Hg/kg	7924
1,1,1,2-Tetrachloroethane		ng/kg	7924
1,1,2,2-Tetrachloroethand	e ( 0,0020 -	ng/kg	7924

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SPECIALIZEL ASSAYS, INC. 2960 Foster Creighton Dr. P.O. Box 40566 Nashville, TN 37204-0566 Phone 1-615-726-0177

## PROJECT QUALITY CONTROL DATA

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Laboratory Control Data

Analyte	vaits	Kaona Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
a-Butylbeazeae	ng/kg	0, 0200	0.0215	108	70 - 130	9480
sec-futulbeazeae	Hg/kg	0.0200	0.0195		70 - 130	9480
tert-Butylbenzene	ng/kg	0.0200	0.0194	97	70 - 130	9480
Ethylbenzene	ng/kg	0.0200	0.0176	93	70 - 130	9480
Isopropylbenzene	ng/kg	0.0200	0.0195	<b>98</b>	70 - 130	9480
4-Isopropyltoluene	ng/kg	0.0200	0.0209	100	78 - 138	9480
a-Propylbeazeae	ng/kg	8.0200	0.0193	76	70 - 130	7480
Toluene	ng/kg	0.0200	0.0197	98	70 - 130	9480
1,2,4-Trimethylbenzene	ng/kg	0.0200	0.0220	110	70 - 130	9480
1,3,5-Trinethylbenzene	ng/kg	0.0200	0.0214	107	70 - 130	9480
n,p-Xylenes	ng/kg	0.0400	0.0388	97	76 - 139	9480
o-Xgleae	ng/kg	0.0200	0.0191	96	70 - 130	9480
Aroclor 1016	ng/kg	0.1667	0.1578	96	60 - 140	9335
Aroclor 1260	ng/kg	0.1567	0.1778	119	60 - 140	9335

Blank Data

Analyte	Klank Value	Units	Q.C. Batch
Xaphthalene	< 0.165	ng/kg	9214
Acenapthene .	6 8.165	ng/kg	9214
Anthracene	< 8.165	ng/kg	9214
Fluoranthene	< 8.165	ng/kg	9214
Fluorene	< 0.165	ng/kg	9214
Pgreae	( 8,165	ng/kg	9214
Reszo(a)anthracese	< 8.165	ng/kg	9214
Reazo(a)pyreae	< 0.165	ng/kg	9214
Renzo(b)fluoranthese	< 8,165	ng/kg	9214
Benzo(k)fluoranthene	< 8.165	ng/kg	9214
Cbrysene	< 0.165	ng/kg	9214
Dibenzo(a,b)anthracene	< 0.165	ng/kg	9214
Indeno(1,2,3-cd)pyrene	< 0.165	ng/kg	9214
Benzo(g,h,i)perylene	< 0.165	ng/kg	9214
Phenanthrene	< 8.165	ng/kg	9214
Arsenic	< 8.10	Hg/1	1615
Barium	< 1.00	Hg/1	1615
Cadnium	< 0.100	Hg/1	1615
Chronium	< 8.50	Hg/1	1615
Lead	< 0.500	Hg/1	1615
flercury	< 0.010	ng/1	8805
Seleaiun	< 0.190	ng/1	1615
Silver	< 8.18	ng/1	1615
Acetoae	< 0.0108	ng/kg	7924
Kenzene	< 0.0020	ng/kg	7924
Bronobenzene	< 0.0020	Hg/kg	7924
Bronochloromethane	< 0.0020	Hg/kg	7924



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#### Blank Data

Asolyte	Blank Value	Units	R.C. Batch
Tetrachloroethene	( 0.0020	ng/kg	7924
Toluene	( 0.0020	ng/kg	7924
1,2,3-Trichlorobenzene	< 0.0020	Hg/kg	7924
1,2,4-Trichlorobeszene	< 0.0020	ng/kg	7924
1,1,1-Trichloroethame	< 0.0020	ng/kg	7924
1,1,2-Trichloroetbase	< 0.0020	ng/kg	7924
Trichloroethene	< 0.0020	нд/кд	7924
1,2,3-Trichloropropane	< 0.0020	ng/kg	7924
1,2,4-Trimethylbeazene	< 0.0020	ng/kg	7924
1,3,5-Trimethylbenzene	< 0.0020	ng/kg	7924
Viayl chloride	< 0.0020	ng/kg	7924
Xglenes	< 0.0020	ng/kg	7924
Bronodichloromethane	< 0.0020	ng/kg	7924
Tricklorofluoromethane	< 0.00Ž0	ng/kg	7924
Benzene	< 0.0010	ng/kg	9480
n-Rutylbenzene	< 0.0010	ng/kg	9480
sec-Kutylbenzese	< 0.0810	ng/kg	9480
tert-Butglbenzene	< 0.0010	ng/kg	9480
Ethylbenzene	< 0.0010	ng/kg	9480
Isopropylbenzene	< 0.0010	ng/kg	9480
4-Isopropyltolvene	< 0.0010	ng/kg	9480
s-Propyldeszese	< 0.0010	ng/kg	<b>748</b> 0
Toluene	< 0.0010	ng/kg	9480
1,2,4-Trinethylbenzene	< 0.0010	ng/kg	9480
1,3,5-Trinethylbeszene	< 0.0010	ng/kg	9480
n,p-Xylenes	< 0.0010	ng/kg	9480
o-Xylene	< 0.0010	ng/kg	9480
Aroclor 1015	< 0.0200	ng/kg	9335
Aroclor 1221	< 0.0200	ng/kg	9335
Aroclor 1232	< 0.0200	ng/kg	9335
Aroclor 1242	< 0.0200	ng/kg	9335
Aroclor 1248	< 0.0200	ng/kg	9333
Aroclor 1254	< 0.0200	ng/kg	9335
Aroclor 1250	< 0.0200	ng/kg	\$335

#### UST-POST CLOSURE SUMMARY

#### Closure Date: 09/22/99

Regulatory Authority:

<u>NYSDEC-Region 9</u> 270 Michigan Ave. Buffalo. NY 14203-2999

Site Name and Address:

Niagara Falls United States Army Reserve Center 9400 Porter Rd. Niagara Falls, NY 14304

Owner's Name, Address: And Phone Number Nickolas Christopher-Colonel. DCSENGR AFRC-CNY-EN Fort Totten, NY 11359-1016 (718)352-5624

Tank Size	Tank Mat'l	Tank Product	No. of Samples Taken	Contaminated Soil Disposed (Quantity)	Contaminated Groundwater Disposed (Quantity)	Condition Of Tank
1,000 G	STL-DW	wo	1-GW 1-EF 1-ESW	0	0	G

Key:

G=Gallons FRP=Fiberglass Reinforced Plastic STL=Steel SW=Single Wall DW=Double Wall WO=Waste Oil and Water mixture EF=Excavation Floor ESW=Excavation Sidewall GW=Groundwater G=Good F=Fair P=Poor

Sample Numbering Key:

The samples are numbered in a format as follows: AAAA-BB-C-01, where AAAA=Facility identification, BB=Sample type, C=sample matrix, 01=sample number. The following key may be helpful when reviewing sample results: MCAC=McConnell Army Reserve Center ES=Excavation sample SW=Sidewall sample GW=Groundwater S=Soil W=Water

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	RECORD	CUSTODY		2-Day D Next Day D	Stendard 🙀	-				- -	NFAC-ES-S-07	NPAC-ES-S-CA	NFAC-Gru-W-05	NFAC-CN-W-05	Field Sample	B.C. # 16 1669	Phone Numbel 10-837-5840	Project Manager	Facility Location (City, St)	Sampler Sign/Print	City Bal	Address 575 S (	Current	
Relinquished by:	Relinquished by	Halinguished by Sampler		As the soul-	NYSDEC	SPECIAL DETECTION LIMITS	-		•		1416 35		33	146632	SAI Lab# (Lab Use Only)	69	10-837-584	25	(City, St) - 9400	Niagari Ferl	no Ino	urup crvir,		SPECIALI 2960 Foster Creis 18001 765-0980 • 1
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	-		r (erewser	MENTS										X	PRODUCT OTHER HCI HNO, H,SO, NaOH	Method Preserved	Fax Number 4	/Fac./Sit	d. Nigar	(12) IProi #	<b>™</b> I	Client Number	torol two oron	(S, INC. wille, TN 37204
		9-21-				RE					Z	X	X		ICE UNPRESERVED OTHER (SPECEN) DATE		er 410-837-3277	he I.D.	Diggara Fulls, A	-244000		nber 7212		
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Υ <b>m</b> e	Time	2:30M		NOTE NU					-						BTEX GRO TPH Low	ATBE O PE O MASS			_	ther_				
Received by: Laboratory	Received by:	Received by:	- NA	MBER			-					-			DRO TN EPH TPH 41 Oll and Gr	E MAS 8.1 D. TX	S EPH ( 1005		Other ( 664 Ca	er 🗅 _ 				
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AM.					,	•								1	Purgeable Lead 60 PAH (GC, PAH (HPI	10 🖸 20 GC/MS)	00.7 🗅 610 i	01	5 🗅 8			·. 70 🖬	ANALYSIS	
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2960 Foster Creighton Dr. <u>P.Q.</u> Box 40566 Nashville, TN 37204-0566 Phone 1-615-726-0177

SPECIALIZED ASSAY

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SVERDRUP CIVIL, INC 9212 ROBERT GRIBBEN 575 S. CHARLES ST, STE 404 BALTIMORE, MD 21201

Project: 000223-D04 Project Name: NIAGARA FALLS USARC Sampler: RDBERT GRIBBEN, JR. ANALYTICAL REPORT

Lob Number: 99-A146532 Sample ID: NFAC-GW-W-05 Sample Type: Water Site ID:

Date Collected: Time Collected: Date Received: 9/24/99 Time Received: 9:00

Analyte	Result	Units	Report Linit	Auga Linit	Dil Factor	Date	Time	Analyst	<b>Nethod</b>	Batel
والا معن الله المراجعة التي المراجعة عليه ومن عمل بعنهما المراجعة المراجعة على المراجعة المراجعة وال	وي بارد و و الله الله من من الله الإيسان			1.00 Apr ( <b>20</b> - 000 Apr ( 20			16 og et 16 og 16	ر و به الله عنه الله خو الله و الله الله الله الله الله الله ا		-
WOLATILE DESANICS by SC*										
leszene	ND CK	ng/]	8.0319	0.0010	1	9/26/99	3:12	N. Himelick	80210	49
a-Witylbeazeae	8. 8124	119/1	8.0019	0.0010	1	9726/99	8:12	A. Hinelick	80218	40
sec-Butylbearese	0.0021	ng/1	0.0010	0.0010	1	9/26/99	8:12	A. Himplick	80218	40
tert-butylbeezeee	0.0012 -	ng/l	0.0010	0.0010	1	9726199	8: 12	N. Hinelick	30218	40
Ethylbenzene	XD	нфЗ	3.0013	0.6010	1	9/25/99	8:12	N. Hinelick	80233	40
Isopropylbenzene	КD	116/1	6.0010	0.0010	1	9/26/99	3:12	A. Hinelick	80218	40
4-Isopropultoluese	0.0023	Ng/1	0.0010	D. 0810	1	9/25/99	8:17	N. Hinelick	3021K	40
Haphthalene	0.0175	ng/1	6,6018	0.0010	1	9/25/99	3:12	A.Hinelick	80218	-和
s-Froggloenzeae	0.0010	ng/1	0.0010	0.0010	1	3/26/99	B: 12	A. Himelick	30218	-43
Taluese	XD	113/1	0.0018	0.0010	1	9/26/99	8:12	n. Hinelick	30218	40
1,2,4-Trimethgl&enzene	0.005?	8971	0.6816 -	9.0010	1	9/25/99	5:12	A. Hinelick	80216	40
1,3,5-Trinethylbeozene	0.0026	ng/1	6.0010	0.0010	1	9/26/99	8:12	A. Hinelick	80215	40
n,p-Xylenes	9.6613	ng/1	0.0010	0.0010	1	9/26/99	8:12	M. Hinelick	80218	40
o-Xylese	級	ng/1	0.0010	0.0013	1	9/26/99	8:12	N. Himelick	80218	40

ND = Not detected at the report limit.

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Report Approved By:

Report Date: 10/ 1/99

Theodore J. Duello, Ph.D., Lab Director Michael H. Dunn, M.S., Technical Director Johnny A. Mitchell, Dir. Technical Services Eric Smith, Assistant Technical Director Gail A Lage, Technical Services

Laboratory Certification Number: 11342



- - 1 - -

2960 Foster Creighton Dr. P.O. Box 40566 Nashville, TN 37204-0566 Phone 1-615-726-0177

SPECIALIZED ASSAYS, INC.

SVERDRUP CIVIL, INC 9212 ROBERT GRIBBEN 575 S. CHARLES ST, STE 404 BALTIMORE, MD 21201

Project: 000223-D04 Project Name: NIAGARA FALLS USARC Sampler: ROBERT GRIBBEN, JR.

ANALYTICAL REPORT

Lab Number: 77-A146633 Sample ID: NFAC-GW-W-05 Sample Type: Water Site ID:

Date Collected: Time Collected: Date Received: 9/24/97 Time Received: 9:00

Haalyte	Result	Balts	Report Limit	Avər Linit	Dil Factor	Dzte	Tine	Anolyst	net)od	Bate
ind a go yild affyddi op lang period aw gerinne fan Lin yne ald frag diwyth har op am cardwr, h	900 1900 990 9 <u>00 1977</u>	- 18 Againe, - griffe om 14 gen	, an international sectors and		18. bet angestigene gin		- 74 - 47 - 48 - 47 - 48	ین پرین در بر می اور این	ال حلة علم الله بي احتر في علم علم علم . ال	
XDEGANIC PARAMETERSA										
Yaşhthalene	HD	11g/1	8.005	6.665	1	9/25/99	22: 39	0.Fouataia	82790	453
Acenopthene	20	3g/1	0.005	0. CCS	1	3/26/99	22: 39	D.Fountain	327BC	403
Antarasene	资	ng/1	8.865	8.605	1	9/26/79	22: 39	D. Foustals	82776	453
Fluoranthene	0.005	ng/1	0.005	0.965-	1	9/28/99	22:39	D.Fountaia	\$270C	453
Fluorene	32 2	ng/1	8,005	0.695	ĩ	9/26/99	22: 39	D.Fountain	82700	453
ayreae	XQ.	88/1	0.005	8.005	1	9/26/99	22: 39	D.Fountain	82700	453
denzo(a) anthraceae	167- 167-	ny/1	0.005	8.865	1	\$/26/99	22: 39	9.Fountain	82760	453
Benzo(a)pyrade	ND	H9/2	0.005	0.005	1	9/26/99	22:39	0.Fouataia	82760	453
Reazo(b)fluorantheae	ND.	8g/1	8, 965	0.805	1	9/28/99	22: 39	D. Feustain	82700	453
Benzo(k)Fluoranthene	HD-	ng/1	9.005	9.005	1	9/26/99	22: 39	D.Foustain	82780	453
Chryseae	10-	ng/1	9.895 +	0.005	1	9/26/99	22: 39	0.Fouatain	\$2790	453
libeazo(a, h) anchracene	115	ng/1	0.005	8.865	1	9/26/99	22: 39	D.Fountain	82706	453
Indeno(1,2,3-od)pyrene	語	ng/1	8.895	8.005	1	9/26/99	22:39	D.Fouataia	82780	453
Beazo(g,h,i)geryleae	<b>20</b>	HQ/3	8,805	0.005	1	9/26/99	22:39	D.Fountain	82700	-45-}
Fhenanthrene	0.006	ng/1	0.005	8.005	1	9726799	22: 39	D.Foustais	82700	453

- 25- -

Sample Extraction Data 犹/701 Parameter Extracted Extract Vol Date Analyst Nethod 288's 1000 81 1.0 nl 9/25/99 Fitzuater 3510 Surregate X Secovery Target Bange surr-Nitrobeazene-d5 58. 15. - 105. surr-2-Fluorodiphenyl 42. 17. - 110. surr-Terphengl di4 10. - 116. 15.

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2960 Foster Creighton Dr. P.O. Box 40566 Nashville, TN 37204-0566 Phone 1-615-726-0177

SPECIALIZED ASSAY,

#### ANALYTICAL REPORT

Laboratory Number: 77-A146632 Sample ID: NFAC-GW-W-03

Page 2

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Report Approved By:

Report Date: 10/ 1/99

Wheodore J. Duello, Fh.D., Lab Director Michael H. Dunn, M.S., Technical Director Johnny A. Mitchell, Dir. Technical Services Eric Smith, Assistant Technical Director Gail A Lage, Technical Services

Laboratory Certification Number: 11342



2960 Foster Creighton Dr. \_PO\_Box 40566 Nashville, TN 37204-0566 Phone 1-615-726-0177

SVERDRUP CIVIL, INC 9212. ROBERT GRIBBEN 575 S. CHARLES ST. STE 404 BALTIMORE, MD 21201

Project: 000223-D04 Project Name: NIAGARA FALLS USARC Sampler: ROBERT GRIBBEN, JR.

and the second s ANALYTICAL REPORT

(<sub>4</sub>2)

Lab Number: 97-A146634 ...Sample ID: NFAC-ES-S-D6 Sample Type: Soil Site ID:

Date Collected: Time Collected: Date Received: 9/24/99 Time Received: 9:00

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Asolyte	Result	Units	Report Limit	duaa Linit	D11 Factor	Date	Tine	teulsar	Nethed	Batoh
			ana pyr haf sandau yw cha			all and an a set of some site		4." 104 114 11-971, al 427 11- 11-981 11-9		
XERGANIC PARATETERSX										
Aceaspliese	ND .	119/Rg	0.155	6.155	1	9/29/99	9: 43	n. Cobb	82700	1807
Anthrocese	ND	ng/¥3	8.155	6. 145	1	9/29/99	7:43	R. Cobb	82700	1567
Fluor out here	0.792	ng/kg	8, 165	0.165	1	9/29/99	9:43	n. Cokb	82790	1997
Fluorene	ND -	ng/kg	8.155	0.165-	1	9729799	9:43	n. Cadd	9270C	1807
Pyrese	8.594	ng/kg	0.165	0.165	1	9/29/93	9:43	N. Cobb	82760	1307
(ieazo(a) anthraceae	0. 277	ng/kg	0.165	8.145	1	7/29/99	9:43	n. Cobd	82760	1807
lenzol a) pyrene	0.277	ngikg	8,135	0.145	1	9/29/99	9:43	М. Собб	8279C	1807
Veszo(b)Fluorosthese	0.231	ng/kg	0.155	0.145	1	3/29/99	9:43	3. Cobb	82700	1807
Benzo(k)fluoranthene	0.264	ngeka	0.155	9.165	1	8/29/99	9:43	N. Cobb	8270C	1867
Carasene	8.297	ngeka	0.155	0.165	1	9729799	9:43	n. Cobb	\$270C	1907
Dideszois, b) sathracese	X9	ng/x g	8.155 +	0.135	1	9/29/99	9:43	N. Cobb	82700	1807
Indeso(1,2,3-cd)pyrene	0.155	ng/ka	0.155	0.135	1	9/29/99	9: 引	n. Codd	8270C	1807
Seazo(g,h,i)pergleae	6.155	ng/kg	0.185	0.155	1	9/29/99	9:43	il. Cobb	82760	1807
Fhenanthreas	0.561	ng/kg	0.165	0.165	1	9/29/99	9:43	N. Cobb	8270C	1807
WOLATILE DEGAVICS by CC*	ŧ									
lenzene	治	ng/kg	0.0010	0.0010	1	9727799	15: 37	T NcCollon	80218	1520
s-Butylbenzese	0.0046	Hg/kg	0.0010	0.0010	1	9/27/99	15: 32	7 McCollum	80218	1629
sec-Kutylbeszene	0.0822	ng/kg	0.6610	0.0010	1	9/27/99	13: 32	T McCollen	8021K	1620
tert-Butalbeazeae	游	ng/kg	0.0010	0.6919	1	9/27/99	15:32	T McCollum	6921B	1620
Ethylbenzene	80	ng/Xş	0.0010	9.9019	1	7/27/79	15:32	i NcCollum	66218	1620
IsogropyLienzene	0.0011	ng/kg	0.0010	3.0901	1	9/27/99	15:32	T McCollum	\$0219	1620
4-Isopropyltoluene	0.0024	<b>897</b> 8 g	0.5010	0.0019	1	9/27/99	15:32	T Accollum	\$821D	1620
Happthalene	0.0938	ng/kg	0.0010	6.0910	1	9/27/99	15:32	i necollum	80218	1620
a-Propylheazeae	80	ng/ką	5.0610	0.0610	1	\$/27/99	15: 32	T ReCollun	80218	1628
Telsee	20	ng/kg	0.0010	0.6919	1	\$727799	15:32	T McCollum	80213	1620
1,2,4-Trimethylbeazene	0.0024	ng/kg	0.0010	0.0010	1	9727799	15: 32	T NeCollum	80218	1620
1,3,5-Trinethylbenzene	8. 9822	ng/kg	0.0010	8.0010	1	9/27/99	15:32	T McCollum	80238	1520
n,p-Xylenes	ND .	ng/kg	0.0710	0.0918	1	9/27/99	15:32	T NcCollun	80213	1626
u-Xulene	ND	ngag	0.0318	8.0018	1	9/27/99	15:32	T McCollum	80218	1620

HD = Not detected at the report limit.

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SPECIALIZED ASSAY: NC. 2960 Foster Creighton Dr. P.Q. Box 40566 Nashville, TN 37204-0566 Phone 1-615-726-0177	<u>_</u> 25, s	ANALYTICAL REPORT
		Laboratory Number: 97-A146634 Sample ID: NFAC-ES-S-06
		Page 2

Sample Extraction Data

Parmeter	ut/vol Extrasted	Extract Vol	Date 	Analyst	Netied
BHA's	30.6 ga	1.0 nl	9/27/99	Fitzyater	3550
Surrogate			% Recoverj	Targe	et Kange
FID Surr., a,a, surr-Witrobeaze	+trifluorotolue ne-15	₩ <b>2</b>	97. 40.		) 153. 1 110.
surr-2-Fluorodi surr-Terphenyl	• •		37. 54.		8 119. 7 128.
Hall Surr. , sal		azeae	73. 72.		7 125. ) 137.

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Report Approved By:

Report Date: 10/ 1/99

Theodore J. Duello, Ph.D., Lab Director Michael H. Dunn, M.S., Technical Director Johnny A. Mitchell, Dir. Technical Services Eric Smith, Assistant Technical Director Gail A Lage, Technical Services

Laboratory Certification Number: 11342



2960 Foster Creighton Dr. \_P.O\_Box 40566 Nashville, TN 37204-0566 Phone 1-615-726-0177

SVERDRUP CIVIL, INC 9212 ROBERT GRIBBEN 573 S. CHARLES ST, ETE 404 BALTIMORE, MD 21201

Project: 000223-004 Project Name: NIAGARA FALLS USARC Sampler: ROBERT GRIBBEN, JR.

 $(\cdot, \cdot)$ 

ANALYTICAL REPORT

Lab Number: 99-A146635 Sample ID: NFAC-ES-S-07 Semple Type: Soil Site ID:

Date Collected: Time Collected: Date Received: 9/24/99 Time Received: 9:00

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Analyt9	Result	Units	Linit	Linit	Factor	0sta	Tine	Aaalyst	Rethod	Satsa 
AERSANDE PARATETERSA										
Aceaapthene	205	ng/ug	0.165	8.185	1	9/29/99	10:29	a. Lodd	8279C	1897
Asthracene	ND CK	ng/kg	0.165	8.155	1	9/29/99	19:20	n. Cobb	3270C	1807
Fluorantaene	8.957	ng/ka	3.155	0.145	1	9/29/99	19:28	A. Cadd	3276C	1867
Fluorese	HD -	ng/kg	0.185	0.165-	1	9/29/97	10:20	A. Cosb	8273C	1807
fyreac	\$.724	ng/kg	8.155	0.165		9/29/99	13:29	N. Loda	8270C	1807
(leuzo(a) anthraceas	8, 395	ng/kg	3.155	9.165	1	9/29/99	10:29	d. Codb	82700	1307
leazo( a) pureae	0.396	ng/kg	0.165	0.165	1	9/29/99	10:20	N. Codb	82700	1907
Senzo(b)Fluoranthese	0.264	ng/kg	8.145	8.165	1	9/29/99	18:20	ff. Cabb	\$276C	1887
Reazo(k) Fluor anthese	0.363	ng/kg	0.155	0.165	1	9/29/99	16:20	7. Codd	\$270C	1807
Chr328114	8.429	ng/ky	0.155	0.165	1	9/29/99	19:20	n. Cobb	82760	1867
Dideazo(a,b) anthraceae	ЖD	80/Rg	9.165 -	0.145	1	9/29/99	10:20	A. Codb	3270C	1807
Indepo(1,2,3-cd)pyreae	НD	ng/kg	8, 165	0.165	1	9/29/99	10:20	n. Codd	82700	1807
Senzo(g,h,i)perglene	0.198	ngeng	0.155	0.165	1	9/29/99	10:29	n. Codd	\$270C	2807
Phenanthrene	0.561	ng/kg	0.165	0.165	1	9/29/99	10:20	ä. Cobb	82700	1807
WELATILE BEGANICS by SCX										
Besiene	ND.	ng/kg	0.0010	0.0010	1	9/27/99	15: 32	T ScCollum	80218	1520
a-Kutylbenzene	HD	ngrag	0.0010	0.0010	1	9/27/99	15: 32	I AcCollon	89218	1620
sec-Butylbeazene	ND	ng/ks	0.0010	9.8910	1	9/27/99	15: 32	T AcCollum	60218	1629
tert-Outylbenzese	ND:	ng/kg	8.0010	0.0010	1	\$/27/59	15:32	T McCollen	80213	1623
Ethylbenzene	HD	ng/kg	8.0010	8.0819	1	\$/27/95	15: 32	T NaCollun	\$021B	1620
Isopropulbenzene	NÐ	ng/kg	0.0010	0.0001	1	9/27/99	15: 32	T NeCollum	80213	1620
4-Isopropultoluene	4D	ng/kg	0.0010	0.0818	1	8/27/99	15:32	T NcCollun	S0219	1626
Hapathalane	HP.	શહ્ય/ક્ષેત્ર	0.0010	0.0010	1	9/27/99	15: 32	T McCollum	\$8213	1620
a-Frogulbenzeaa	***	ng/kg	9.0910	0.9910	1	9/27/89	15: 32	T NeCollum	80219	1620
Toluene	ND	ng/kg	0.0010	0.0010	1	9/23/99	15: 32	T NcCollun	80210	1628
1,2,4-Trinetbylbenzene	XD	ng/kg	0.0019	0.0010	1	9/27/99	15: 32	T HeCollum	80218	1620
1,3,5-Trimethylbenzene	ж¢	ng/ag	0.0810	0.0010	1	9/27/99	15: 32	T McCollum	89213	1620
n,9-Xglanes	80	ng/kg	0.0010	9.0010	1	9/27/99	15: 32	T McCollun	8021B	1620
o-Xilene	X0	ng/kg	0.0010	0.0018	1	9/27/99	15: 32	T ReCollum	80218	1620

HD = Not detected at the report limit.

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SPECIALIZED ASSAY	
2960 Foster Creighton Dr. P.O. Box 40566 Nashville, TN 37204-0566	 an an ann an t-an t-an t-an t-an t-an t-
Phone 1-615-726-0177	ANALYTICAL REPORT
	Laboratory Number: 99-A146633
	Sample ID: NFAC-E8-8-07
	Page 2

Sample Extraction Data

Paranetar	Nt/Vol Extracted	Extract Vol	ðate 	Analyst	nethod 
BXA's	38.3 gn	1.0 nl	9/27/99	Fitzuater	3558
Surrogate			X Secovery	-	et Szage
PID Surr., a,a, surr-Nitrobenzed surr-2-Fluorodi surr-Terphengl a Hall Surr., chia Hall Surr., 1-20	ne-15 92e2yl 114	-	97. 47. 47. 69. 118. 199.	21 11 - 21 61	0 159. 0 110. 8 110. 7 123. 7 125. 0 137.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By:

V1 1

Report Date: 10/ 1/99

Theodore J. Duello, Ph.D., Lab Director Michael H. Dunn, N.S., Technical Director Johnny A. Mitchell, Dir. Technical Services Eric Smith, Assistant Technical Director Gail A Lage, Technical Services

Laboratory Certification Number: 11342



2960 Foster Creighton Dr. P.O. Box 40566 Nashville, TN 37204-0566 Phone 1-615-726-0177

### PROJECT QUALITY CONTROL DATA

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### Matrix Spike Secovery

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Asslyte	vaits	Drig. Val.	42 AN	Spike Cosc	Recovery	Target Bange	9.C. Batch
Yapithalese	ng/1	< C. 805	( 8.805	0. 160	£/9	26 137.	453
Ressathese	89/1	< 0.085	0.035	0.100	363	58 140.	453
Asthracese	ng/3	< 8.085	( 0.005	0.100	8/9	\$0 127.	453
Fluoranchese	Hg/1	< 0.805	( 0.065	3,100	3/2	63 135.	453
Fluoreae	ngrī	1 0.005	{ 0.005	9,190	N/A	<b>68 122</b> .	-533
Fyres#	ny/1	0.605	0.041	0.199	429	57 118.	453
Senzo( v) anthracene	119/1	< 0.085	( 0.865	¢. 138	8/9	77 130.	453
Genzo( a) pyrene	ng/1	4 6.005	( 9.005	0.166	8/A	72 132.	453
Seazo(a)Fivorantheae	ng/1	( 0.005	< 9.965	0.160	1./A	68 135.	423
Beazo(X)Fluoraataeae	Hg/1	< 8.685	< 8.605	6.150	8/8	81 133.	453
Chrysene	ng/1	< 0.005	< 0.005	0.109	N/A	10 130.	453
Dibeaza(a,b)aatbraceae	ng/1	( 5.005	< 8.005	0.108	N/A	57 124.	453
Indeno(1,2,3-od) pyrene	ng/1	< <b>8.005</b>	( 0.005	0.100	X/A	26 143.	453
Benzo(g,h,l)pergiene	ng/1 -	< 0.005	< 0.005-	0.155	₩/₩	24 145.	453
Phesasthread	H9/1	6 0.505	< 0.005	6.109	a/a	81 111.	453
Sebzere	190/1	< 8.6619	0.0194	0.0290	97	76 127.	49
lleazene	ng/kg	( 0.0010	0.0192	0. 0290	96	67 137.	1628
Toluese	ng/1	< 8.6810	6. 0195	0.0290	33	74 127.	40
Toluese	ng/kg	< 0.6010	0.0175	0.8266	99	65. <b>- 1</b> 39.	1620
n,9-7376982	112/1	\$ 0.0810	0.0394	0.0460	93	75 133.	
n,p-Xyleses	ng/kg	( 0.8019	+ 0. 8432	<u> 9. 0400</u>	108	58 136.	1629

### Matrix Spike Suplicate

Analyta	units	Orig. Val.	Duplicate	RFD	Linit	Q.C. Batch
Naphthaleos	ng/1	( 0.005	< 8.005	¥/A	32.	453
Aceaapthene	Hg/1	6. 835	0.039	8,60	15.	403
Astbracese	ng/3	< 0.005	( 0,605	H/0	19.	453
Fluoranthene	Hg/1	< 0.805	6 0.005	8/8	15.	453
Fluotese	Ha/1	( 0.805	< 8.865	¥/8	33.	453
Pyreac	113/1	0.041	0.043	4.75	8.	453
Benzy(a)anthracene	ng/1	< 0.005	< 0.005	H/A	21.	453
Beazo(a)așreae	ng/1	< 0.605	< 0.065	R/A	16.	453
Beazo(b)Fluorantheae	ng/1	< 8.005	< 0.005	N/8	26.	453
Beazu(k)fluoraatheme	ng/1	< 8.005	( 0.005	X/A	30.	453
Cbrysese	110/1	( 0.005	< 8,665	N/A	15.	453
Dibeazo(a,à)aathraceae	ng/1	< 0.605	< 8.085	H/A	33.	453
ladeno(1,2,3-cd)pyrene	Hg/1	< 0.805	( 0.005	N/8	39.	453
Denzo(g,h,i)perglene	119/1	< 0.005	< 8.005	N/A	48.	453 、
Phenanthrene	ng/1	< 0.985	< 0.605	N/8	16.	453
Benzene	ng/1	0.0194	0.0200	3.85	12.	40
Beszese	ngrieg	0.0172	0.0170	1.05	19.	1629
Tolueae	H4/1	0.0195	0.0200	2.53	11.	40
Toluene	ng/kg	6.0195	0.0191	2.07	13.	1620
n,p-Xgleoes	ng/1	8.0374	0.9407	3.25	12.	40



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### PROJECT QUALITY CONTROL DATA

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### Natrix Spike Duplicate

Aaalyte	valts	Drig. Val.	Duplicate	8 <b>50</b>	Linit	9.C. Datch
n,p-Xglazes	ng/kg	9.8432	0.0422	2.34	20.	1429

### Laboratory Control Data

Analyte	uaits	Xnoun V21.	Analyzed Val	Z Recovery	Target Range	A.C. Vatch
Aceaspibece	ng/kg	1. 57	1.68	191	68 - 140	1207
Anthracene	ngekg	1.67	1.75	105	68 - 140	1897
fluoraothene	ng/kg	1.67	1.72	183	60 - 140	1207
fluoreae	ng/kg	1.67	1.63	79	60 - 140	1907
P37232	หฐาวีสฐ	1. 57	1.65	99	60 - 148	1807
Beazo(a)aathracase	ngency	1.67	1.72	103	60 - 140	1307
Beazo(a)ayrene	ng/kg	1.67	1.78	107	48 - 141	1807
Reazo(b)fluorasthese	89/%3	1.57	1.79	107	60 - 140	1807
Nearo(k)Fluoraatheae	ng/ky	1.67	1.78	107	80 - 140	1807
Chrysene	ng/kg	1.67	1.88	113	60 - 140	1307
Dibenzo(a,b)anthracene	ng/kg	1.67	1.58	75	68 - 140	1807
Indeno(1,2,3-cd)pyrene	nyeag	1.67	1.45	87	<b>60 - 140</b>	1807
Senzo(g,h,i)perglase	ng/kg	1.67	1.25	75	60 - 140	1897
Phenasthrese	ngrag	1.67	1.78	107	68 - 140	1807
Raphthalene	- Hg/T	0.650	- 0.030	60	80 - 140	453
Acenapthene	119/1	0.050	0.034	63	50 - 140	453
Anthracene	n3/1	0.050	0.043	86	60 - 140	453
Fluoraatheae	ng/1	0, 050	8.044	33	60 - 140	453
Fluorene	ng/1	3, 859	8.037	74	so - 140	453
Pyrene	ng/1	6.650	0.644	88	68 - 148	453
Senzo(a)anthracene	ng/1	8,050	0.045	90	60 - 140	453
Seazo(a)pyreae	ng/1	0.658	8.942	84	60 - 140	453
Benzo(b)fluorantheas	ng/1	0.050	0.035	70	60 - 140	453
Beazo(k)fluoraatheae	ng/1	0.050	0.664	128	60 - 140	453
Chrysene	Hy/1	0. 350	0.043	86	60 - 140	453
Didenzo(a,b)anthracene	Hg/1	0.050	0.851	102	68 - 149	453
Ladeao(1,2,3-c4)pgreae	ng/1	0.050	0.048	96	胡 - 140	453
Benzo(g,h,1)perglene	ng/1	8.858	6.047	94	68 - 149	453
Pseasstarese	<b>Mg/1</b>	0.050	0.042	84	<u> 50 - 140</u>	453
loniore	119/1	0.0200	8.0201	100	76 - 130	40
Beazene	ng/kg	0.0250	0.0178	99	78 - 130	1620
a-Sutylbenzene	ng/1	8,8289	0.0295	102	70 - 150	40
a-Butyl beazeae	ng/kg	0.0200	0.0217	108	76 - 130	1620
sec-Butylbeazene	สญาโ	8.0200	0.0206	103	78 - 158	40
sec-Butylbenzene	Hą/kg	8.0200	0.0183	94	70 - 139	1620
tert-Nutylbeazese	ng/1	0.0200	0.0206	193	70 - 130	40
tert-Butylbenzene	ng/kg	0.0200	0.0202	101	70 - 130	1420
Ethylbenzene	H4/1	0,0200	0.8295	1.03	70 - 130	-40
Ethylbenzene	ng/kg	9.6200	0.0225	112	76 - 130	1.620
Isoşropyi denzene	89/1	0. 0290	0.0266	103	70 - 130	40



2960 Foster Creighton Dr. -P.Q.Box 40566 Nashville, TN 37204-0566 Phone 1-615-726-0177

### PROJECT GUALITY CONTROL DATA

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### Laboratory Control Data

Auolyte	uaits		Kacha Val.	Avalyzed Val	% Recovery	Torget Ronge	Q.C. Hatab
Isopropylbenzene	stg/Rg		8. 8290	0.6174	97	70 - 130	1620
4-Isopropyltoloeme	R3/1		0.0200	0.0206	103	70 - 130	40
4-Isopropultoluene	ngrag		0.0250	0.0134	<b>9</b> 3	79 - 150	1620
Reparthelese	ng/1		8. 8220	0.0201	140	70 - 130	48
Haydtdaleas	89/83		0. 0200	0.0203	102	78 - 138	1620
a-Propylbenzece	ng/1	<del>-</del> .	0.0200	0.0203	107	70 - 130	40
n-Propylbenzene	ng/kg		0.0200	0.0194	97	70 - 160	1620
Teluese	39/1		0.0200	6. 6291	105	70 - 130	40
Toluene	ng/kg		0.9290	5. 5255	100	70 - 130	1520
1,2,4-Trinethyldeszene	ng/1		0.0200	0.0206	103	70 - 130	和
1,2,4-Trinetbylbenzene	ng/kg		0.0200	0.6228	118	78 - 130	1629
1,3,5-Trinethylbenzene	ng/1		0.0200	0.0285	103	71) - 130	40
1,3,5-Trimethylbeazane	ng/kg		0.0200	0.0222	111	70 - 130	1.629
n,p-Xylenes	ng/1		0.0400	0.0411	103	70 - 130	40
H,p-Xylenes	મહુ/દેવ		0.0400	8.0457	114	70 - 130	1620
o-Xşloae	ng/1		9,9299		183	70 - 130	40
o-Xylane	n3/Kg		0.0200		<b>9</b> 9	76 - 190	1620
	Alauk Data						
Analyte .	Blank Value	Vait		- Satob			
tener a national de la companya	1 5 1/5						
Acenapthene Anthracene	{ 0.165 { 0.165	ng/kg					
fluoraatheae	< 0.165	ng/kg ng/kg					
Fluarene	< 0.155	nge ng Ngé ng					
Pyrene	( 0.165	ng/kg					
Veszois)asthracese	( 9.165	ny ny Ng/kg					••
Reazo( 2) pyrese	( 0,165						
Reazo(b)Fluoraatdese	< 8.165	ny ny ny/kg					
Neazo(k)fluorasthese	( 0.145	Hg/kg					
Chrysene	6 8.165	ngerkg					
Dibenzo(a,h)asthraceae		ng/kg					
Indepo(1,2,3-cd)pyrese		Hgring					
Benzo(g,d,i)perglese		89.85 89.85					
Phenanthrene	( 8.155	ng/ky					
Hapathalene	( 0.005	113/1	4				
Aceaspthene	< 0.005	ng/1	43				
Asthracese	< 0.805	ng/1	4				
Fluoranthene	< 8.085	ng/1	4				
Fluorene 🗮	< 0.005	ng/1	4				
Pyreae "	( 8.805	ng/2	45				
Renze(a) anthracese	< 8.665	Hg/1	4				
leazo( a) pyreaz	4 0.005	191	4				
Nenzo())+luoranthese	< 9.865	110/1		3			
Senzo(k)fluoraatdene	( 0.005			3			
		7				n na sea anna sea ann	

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2960 Foster Creighton Dr. P.Q. Box 40566 Nashville, TN 37204-0566 Phone 1-615-726-0177

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SPECIALIZED ASSAY

### PROJECT QUALITY CONTROL DATA

- **-** -

### Blask Data

| Avalyte                  | Maak Value | Vaits     | N.C. Botch |
|--------------------------|------------|-----------|------------|
| Cirysene                 | < 8.065    | ng/l      | 453        |
| Didenzo(a, b) anthracene | < 0.005    | 119/1     | 453        |
| Indeno(1,2,3-od) pyreas  | ( 0.005    | HV1       | 453        |
| Beazo(g,d,i)peryleae     | ( 0.005    | Hg/1      | 453        |
| Phenaschrene             | < 8.685    | ng/1      | 453        |
| Venzene                  | < 0.0018   | HR 1      | 40         |
| Reazene                  | < 0.0910   | Hyrrg     | 1620       |
| a-Vutylbearene           | ( 0.0919   | Hg/1      | 40         |
| a-kutyldearene           | { 0.0010   | ng/Xg     | 1520       |
| sec-Butyldenzene         | < 5.8019   | Hg/1      | 48         |
| sec-Nutyl denzene        | < 0.0019   | nykg      | 1320       |
| tert-Roiglbeazeae        | < 0.9819   | ng/1      | 40         |
| tert-lucyldeazese        | < 9.6019   | ng/kg     | 1620       |
| Ethyldenzese             | ( 9.0810   | Hg/1      | 40         |
| Ethylbenzeae             | < 0.0010   | ng/xg     | 1620       |
| Isopropylbenzene         | < 0.0019   | ng/1      | 40         |
| Isoşropyldenzese         | ( 0.0010   | ng/kg     | 1620       |
| 4-Isepropyltolueae       | < 0.0010   | Hg/]      | 40         |
| 4-Isupropyltoluene       | < 0.0010   | ngertg    | 1820       |
| Hapathalene              | < 0.0010   | Ng/1      | 413        |
| Nagathaleee              | < 0.0010   | ng/kg     | 1620       |
| a-Propylbenzene          | < 0.0010   | ng/1      | 40         |
| n-Fropylbenzene          | < 0.0010   | ng/kg     | 1620       |
| Tolvene                  | < 0.0010   | ng/3      | 40         |
| Toluese                  | < 0.0010   | Hg/kg     | 1529       |
| 1,2,4-Trinethylbenzeae   | < 0.8010   | ng/1      | -40        |
| 1,2,4-Trinethylbeazese   | < 0.0010   | ng/kg     | 1620       |
| 1,3,5-Trimetäyläenzene   | < 0.6010   | સર્યુત્ 1 | 40         |
| 1,3,5-Trinethylbenzene   | < 0.0918   | ng/kg     | 1620       |
| H,p-Xylenes              | < 0.0010   | સલુ/1     | 40         |
| n,p-Xylenes              | < 0.0010   | મયુર/જેયુ | 1.620      |
| o-Xylene                 | < 0.0010   | ng/1      | 40         |
| o-xijjene                | < 0.0019   | Hg/Xg     | 1823       |

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Closure Report Niagara Falls USARC December 14, 1999

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### Appendix G

### **Tank Certificate of Disposal**



Environmental PRODUCTS & SERVICES, INC.

170 Cooper Avenue, Suite 100, Tonawanda, NY 14150 (716) 447-4700, FAX (716) 447-4708, (800) 757-7455

- -----

 Emergency Response
 Remediation
 Geoscience

Services

Industrial Maintenance

Waste Mgmt.
 Training Svcs.

October 20, 1999

Rob Gribben Sverdrup 575 South Charles Suite 404 Baltimore, Maryland 21201

### RE: SUBCONTRACT NO. 000223-004. DISPOSAL OF UNDERGROUND STORAGE TANKS (UST)

Dear Rob:

This letter is submitted as clarification of proof of disposal for the fiberglass UST disposal of in conjunction with the above referenced project.

PFC Deglopper USARC - one (1) - 550 gallon fiberglass UST was transported to the Niagara Falls USARC and placed in a rolloff box. Please refer to the BOL dated 9/15/99 and the rolloff BOL and weight ticket dated 10 - 11 - 979.

Amherst USARC - one (1) - 550 gallon fiberglass UST was transported to the Niagara Falls USARC and placed in a rolloff box. Please refer to the BOL dated 9/16/99 and the rolloff BOL and weight ticket dated  $\frac{10-11-99}{2}$ .

Niagara Falls USARC - one (1) - 550 gallon fiberglass UST was placed in the onsite rolloff. Please refer to the rolloff BOC and weight ticket dated  $\frac{10 - 1/-99}{100}$ . One (1) - 1,000 steel UST was transported to Louis Levin for scrap metal recycling. Please refer to the BOL and weight ticket dated 9/23/99.

Should you have questions or require any additional information, please contact me at (716) 447-4700. Thank you.

Very truly yours,

ENVIRONMENTAL PRODUCTS & SERVICES, INC.

Linda J. Grimmer, Project Coordinator Buffalo Branch

LJG/cjc 9248.LJG.941

Enclosure

Albany, NY • Binghamton, NY • Boston, MA • Bridgeport, CT • Buffalo, NY • Burlington, VT • Harrisburg, PA • Hartford, CT • Linden, NJ • Long Island, NY Newburgh, NY • Philadelphia, PA • Plattsburgh, NY • Raleigh, NC • Rochester, NY • Scranton, PA • Syracuse, NY • Westchester/Rockland, NY

|                                       |                            | 1          |           |                |                    | N              | o. 3 |   |
|---------------------------------------|----------------------------|------------|-----------|----------------|--------------------|----------------|------|---|
| 1                                     | -3788 • Fax (716) 825-6324 | <b>.</b>   |           |                |                    |                |      |   |
| DATE                                  |                            | ·          | 2:14      | DH             | nà                 | 72             | QQ   | * |
| SHIPPED TO                            |                            | 1          | 2 4 1 1   | 2 1 3          | 00                 | <u>ن ن</u>     | ננ   | , |
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| ADDRESS                               |                            | 1          | ,, _ ,,   | 54             | , <b>ma</b> , ins. | ~~             |      | • |
|                                       |                            |            | 2:27      | ۲M             |                    | 23             | 99   |   |
| MATERIALS <u>Scr. 4</u>               | P TANU 10                  | 000 GALCON | ,         |                | 222                | 200            | 16   |   |
| · •                                   | PRICE                      |            |           |                |                    |                |      |   |
| TRUCK #761610                         | BOX #                      |            |           |                |                    | •.             |      |   |
| ~                                     | Dump                       |            |           |                |                    |                |      |   |
|                                       |                            | nit"       |           |                |                    |                |      |   |
|                                       |                            |            |           |                |                    | ·              |      |   |
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Closure Report Niagara Falls USARC December 14, 1999

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### Appendix H

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### NYSDEC STARS Memo #1 Guidance Values

### 01/13/98 TUE 16:13 FAX 913 59 343

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### <u>ارہ</u> (کے)

|                        | TABLE 2      |              |       |
|------------------------|--------------|--------------|-------|
| <b>Guidance Values</b> | for Fuel Oil | Contaminated | Soil* |

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|                            |                | Lin      | ection<br>hit <sup>in</sup><br>pb) | TCLP<br>Extraction<br>Guidance<br>Value <sup>121</sup> | TCLP<br>Alternative<br>Guidance<br>Value<br>C <sub>a</sub> (ppb) | Human<br>Health<br>Guidance<br>Value | Guid<br>Va | ment<br>ance<br>lue<br>ppb} |
|----------------------------|----------------|----------|------------------------------------|--|--|--------------------------------------|------------|-----------------------------|
| Compound                   | EPA<br>Method  | Liquid   | Solid                              | C <sub>w</sub> (ppb) C <sub>a</sub> (ppb)              |  | C <sub>h</sub> (ppb)                 | Fresh (    | Marine                      |
| Benzene                    | 8021 (8020)    | 1        | 2                                  | 0.7  | 14   | 2.4 x 10 <sup>4</sup>                |            |                             |
| Ethylbenzene               | 8021 (8020)    | 1        | 2                                  | 5  | 100  | 8.0 x 10⁵                            |            |                             |
| Toluene                    | 8021 (8020)    | 1        | 2                                  | 5  | 100  | 2.0 x 10 <sup>7</sup>                |            |                             |
| o-Xylene                   | 8021 (8020)    | 2        | 2                                  | 5  | 100  | 2.0 x 10 <sup>8</sup>                |            |                             |
| m-Xylene                   | 8021 (8020)    | 2        | 2                                  | · 5 :  | 100  | 2.0 x 10 <sup>8</sup>                |            |                             |
| p-Xylene                   | 8021 (8020)    | 2        | 2                                  | 5  | 100.   | •••                                  |            |                             |
| Mixed Xylenes              | 8021 (8020)    | 2        | 2                                  | 5  | 100-   | 2.0 x 10 <sup>3</sup>                |            |                             |
| Isopropylbenzene           | 8021           | 1        | 1                                  | 5  | 100  | •••                                  |            |                             |
| n-Propylbenzene            | 8021           | 1        | 1                                  | 5  | 100  | •••                                  |            |                             |
| p-isopropyitoluene         | 802 Ī          | 1        | 1                                  | - 5  | 100  | ***                                  |            |                             |
| 1,2,4-Trimethylbenzene     | 8021           | 1        | 1                                  | 5  | 100  | •••                                  |            | · .                         |
| 1,3,5-Trimethylbenzene     | 8021           | 1        | 1                                  | 5  | 100  | ***                                  | ·          | ·                           |
| n-Butylbenzene             | 8021           | 1        | 1                                  | 5  | 100  | ***                                  | ·          |                             |
| sec-Butylbenzene           | 8021           | 1        | 1                                  | 5  | 100  | ***                                  |            | ĺ                           |
| t-Butyl benzene            | 8021           | 1        | 1                                  | 5  | 100  | •••                                  |            | , .<br>                     |
| Naphthalene <sup>131</sup> | 8021<br>(8270) | 1<br>(6) | 1<br>(330)                         | 10   | 200  | 3.0 x 10⁵                            |            | · ·                         |
| Anthracene                 | 8270           | 8        | 330                                | 50   | 1,000  | 2.0 x 10'                            |            | <u> </u> .                  |
| Fluorene                   | 8270           | 8        | 330                                | 50   | 1,000  | 3.0 x 10 <sup>6</sup>                | ļ.,        |                             |
| Phenanthrene               | 8270           | 22       | 330                                | 50   | . 1,000  |                                      |            | <u> </u>                    |
| Pyrene                     | 8270           | 8        | 330                                | 5Ó   | 1,000  | 2.0 x 10 <sup>6</sup>                |            |                             |
| Acenaphthene               | 8270           | 8        | 330                                | 20   | 400  | 5.0 x 10 <sup>6</sup>                |            |                             |
| Benzo(a)anthracene         | 8270           | -31      | 330                                | .002   | .04"   | 220                                  | 33         | 18                          |
| Fluoranthene               | 8270           | 9        | 330                                | 50 ·   | 1,000  | 3.0 x 10 <sup>5</sup>                |            | <u> </u>                    |

(CONTINUED ON THE NEXT PAGE)

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|                 |               |        |               | • •  |  | •                                    |            |                                 |
|-----------------|---------------|--------|---------------|--|--|--------------------------------------|------------|---------------------------------|
| · ·             | Guidance      |        |               | 2 (Cont'd)<br>Jel Oil Cont                             | taminated S                              | Soil*                                |            |                                 |
|                 | - TRA         | ` LI   | ection<br>mit | TCLP<br>Extraction<br>Guidance<br>Value <sup>(31</sup> | TCLP<br>Alternative<br>Guidance<br>Value | Human<br>Health<br>Guidance<br>Value | Guid<br>Vi | iment<br>dance<br>alue<br>(ppb) |
| Compound        | EPA<br>Method | Liquid | Solid         | С <sub>w</sub> (ррb)                                   | C <sub>a</sub> (ppb)                     | C <sub>h</sub> (ppb)                 | Fresh      | Marine                          |
| b)fluoranthene  | 8270          | 19     | 330           | .002   | .04(4)                                   | 220                                  | 33         | 18                              |
| (k)fluoranthene | 8270          | 10     | 330           | .002   | .04                                      | 220                                  | 33         | 18                              |
| ene .           | 8270          | 10     | 330           | .002   | .04(4)                                   | •••                                  | 33         | 18                              |

.002

.002

.002

50

.04 (4)

.04(4)

.04(4)

1,000

Nuisance Characteristics Guidance:

No Petroleum-type odors.

Benzo(b)fluoranth

Benzo(k)fluoranth

Benzo(a)pyrene

Benzo(g,h,i)perylene

Indeno(1,2,3-cd)pyrene

Dibenz(a,h)anthracene

Chrysene

No individual contaminant in soil at greater than 10,000 ppb.

10

10

10

10

330

330

330

330

8270

8270

8270

8270

(1) The listed Detection Limits are Practical Quantitation Limits (POL's). The Method Detection Limit (MDL) is the best possible detection. Laboratories report the Practical Quantitation Limit (PQL), which is generally 4 times the MDL. Efforts should be made to obtain the best detection possible when selecting a laboratory. When the Guidance Value or standard is below the detection limit, achieving the detection limit will be considered acceptable for meeting the Guidance Value or standard.

[2] The TCLP Extraction Guidance Values are equal to the NYSDEC groundwater quality standards or, Guidance Values, or the NYSDOH drinking water quality standards or Guidance Values, whichever is more stringent.

(3) For naphthalene analysis in a liquid matrix, both Method 8021 and Method 8270 can provide satisfactory levels for comparison to the C<sub>w</sub> of 10 ppb.

For naphthalene analysis in a solid matrix, Method 8021 is preferred over Method 8270 for comparison to the C, of 200 ppb. If the C, Guidance Value is not being used in the soil evaluation, then both Method 8021 and 8270 can provide satisfactory detection levels for comparison to the  $C_{h}$  of 3.0 x 10<sup>5</sup>, and nuisance characteristic of 10,000 ppb.

- [4] Due to the high detection limit for a solid matrix, the TCLP Extraction Method must be used to demonstrate groundwater quality protection for these compounds.
- No Guidance Value identified in EPA HEAST Report.

(B-3)

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Closure Report Niagara Falls USARC December 14, 1999

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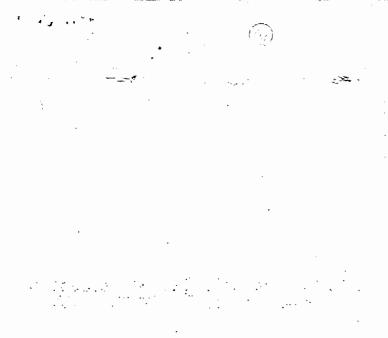
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### Appendix I

### **Minutes of Spill Report**

g/21/99 NIMANT FALLS USARC 2:30 Linos Grimmer coller Sol (Harrisot, NysDec mos left message 2:45 Sol pour Linon Germanic 2:46 Linor G. Colled Sol. Line was - love y-2:46-3:05 Linst G. Continued attempts live busy 3:05 Sel Pager Lines 6. 3:06 - Linox 6. spoke to sal. He was make that spill was alled in + thought Dave must From Ningary County Health Dept. with coming ant. - Sal asked is exclusion was prekelled - I inFRAME BACKFilling her started I ASKED IF he wanty we to stop BACKFILING HE SAID NO. - Sal ASKer ABUT CIRCUMSTANCES of spill report. I indicated that slight sheen was Noted. Sheen was seleved to Be Friend grown water mixing with town residue. I inFrence This that water was pumper into isruer mo that there had seen drawed

-- \* (...) prior to attempting to pull - I INFIRME SAI Frut SDI SAMPLES had been collected. I also Asked IF HE WORLD REQUIRE A SUMOWARS SAMPLE. HE SAID SOIL SAMPLES . were sufficient .... - Sal stated that he would attempt. . .... to reach Dave Dust mis confirm he was coming to the site 3:15 Drote Martin OF Mitzaut County Huth Dept. Areived onsite my met with Dick. • •... **1**4 - . . · · · - - 4



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PAUL R. DICKY Assistant Public Health Engineer 439-7595 NIAGARA COUNTY HEALTH DEPARTMENT ENVIRONMENTAL HEALTH DEPARTMENT ENVIRONMENTAL HEALTH DIVISION NIAGAPH IN MY 14302 OFFICE (716) 439-7440 FAX (716) 439-7440 Y (716) 778-X (716) 778-Y 24-HOUR EMERGENCY NO. (716) 439-7430 -

Dave Marting Her Htm Byps Dave Marting 43 439- 7444

New York State Department of Environmental Conservation



### MARVIN PRINGLE

Environmental Engineering Technician II Spill Response Unit Region 9

270 Michigan Avenue Buffalo, NY 14203-2999 (716) 851-7220

ROLODEX

24-Hour Spill Hotline 1 (800) 457-7362

> REFILL NO. 530 & SEST PATENTED

SDEC 851-7220 Sal Calmora Environmental Engineer I NYSDEC SAL CALMORA

99 17:22

NO. 117 P22

### Report of Analysis U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army 77<sup>th</sup> RSC Engineers AFRC-CNY-EN Bldg. 200 PL Totten, NY 11359-1016 Lab ID #: 4843.01-.03 Sample Received: 10/05/99 Sample Matrix: Aq Sample Extracted: Na

Site: Niagara Falls OWS

Field ID#: Drams 1-8

Method of Analysis: Std. Methods 18th, Method 3120B. 3112B Method of Extraction: NA

| Element  | Date<br>Analyzed | Results | Regulatory<br>Lovel (mg/L) | MDL<br>(mg/L) |
|----------|------------------|---------|----------------------------|---------------|
| Amenic   | 10/07/99         | 0.006   | 5.0                        | 0.002         |
| Barium   | 10/07/99         | 0.124   | 100                        | 0.0005        |
| Cadmium  | 10/07/99         | 0.0009  | 1.0                        | 0.0005        |
| Chromium | 10/07/99         | 0.0583  | 5.0                        | 0.0005        |
| Lead     | 10/07/99         | ND      | 5.0                        | 0.002         |
| Seleninm | 10/07/99         | ND      | 1.0                        | 0.003         |
| Silver   | 10/07/99         | ND      | 5.0                        | 0.003         |
| Mercury  | 10/13/99         | 0.00014 | 0.2                        | 0.0001        |

### TCLP-METALS RESULTS SUMMARY (me/L)

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

### ASBESTOS INSPECTION REPORT US ARMY RESERVE SITE NIAGARA FALLS, NEW YORK (NY046)



Prepared for:

77<sup>TH</sup> REGIONAL READINESS COMMAND UNITED STATES ARMY RESERVE FORT TOTTEN, NEW YORK



Prepared by:

ENVIRONMENTAL ENTERPRISE GROUP, INC. 1345 BARRACKS ROAD NORTH CHARLESTON, SOUTH CAROLINA 29405 (843) 202.8003

DECEMBER 2004

### UNITED STATES ARMED FORCES RESERVE CENTER NIAGARA FALLS, NEW YORK (NY046)

### ASBESTOS INSPECTION REPORT

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### **EXECUTIVE SUMMARY**

### 1. INTRODUCTION

Asbestos Building Inspectors Mark Moltzen and Terry Lewis from the Environmental Enterprise Group, Inc. (EEG) of Charleston, SC conducted an inspection to identify asbestos containing building material (ACBM) at the US Army Reserve Center located in Niagara Falls, NY. The inspections were conducted on 14-15 October 2004 and the results of the inspections provide an inventory of ACBM in ten (10) buildings.

All inspectors were certified by an EPA accredited training center under the Asbestos Hazard Emergency Response Act (AHERA), as Building Inspectors. All Inspectors and Management Planners are employees of EEG, Inc. and copies of inspector licenses are located in the *TRAINING* section of this report.

Suspect ACBM was identified and sampled in accordance with AHERA-style guidelines (See Paragraph 5 for sampling strategy). Some materials suspected of being ACBM may not have been assumed to be ACBM and not sampled. Assumed materials may include floor tile and ventilation transition boots. Some materials may not have been identified as ACBM because they were portable and removable (e.g. blackboards, fire hoses), were not safe to sample (e.g. electrical insulation), or sampling would have damaged the material and impaired the normal system operation/integrity (e.g. heating/ventilation/AC systems, furnace, boiler door and pipe gaskets).

Bulk samples were analyzed by the Environmental Hazards Services (EHS) laboratory of Richmond, Virginia. EHS is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) and the American Industrial Hygiene Association (AIHA) for asbestos analysis. Polarized Light Microscopy (PLM) was used to analyze samples.

Materials identified as ACBM and either <u>sampled</u> or <u>assumed</u> were designated a homogeneous area by similarity of color, texture and date of application. Each homogeneous area was assessed in accordance with the "Asbestos Facility Inventory/Assessment Protocol," NEESA 70.2-010, Developed by the Naval Facilities Engineering Service Center (NFESC).

### US ARMED FORCES RESERVE CENTER - NIAGARA FALLS (NY046) ASBESTOS INSPECTION REPORT

The NFESC protocol establishes an algorithm rating for each homogeneous area based on condition, quantity, friability, exposure potential, number of persons exposed, building significance and percentage of asbestos present in the material. The **BUILDING SUMMARY TABLES** lists the ratings for each homogeneous area. The rating is heavily weighted by condition, friability, exposure potential and building significance. The higher the rating, the more attention is needed for this material. For the purposes of this inspection, all buildings were listed as essential and occupied during the inspection.

### 2. FINDINGS SUMMARY

<u>BUILDING 4 (Main Reserve Center)</u>: Confirmed friable ACBM in the form of piping TSI and vent duct TSI and non-friable ACBM in the form of floor tile, floor tile mastic and fire doors are found in this building.

BUILDING 18 (AMSA 76/Motorpool): No confirmed ACBM was found in this building.

<u>BUILDING 19 (Quonset Hut):</u> Confirmed non-friable ACBM in the form of sheetrock joint compound and roofing mastic are located in the building.

BUILDING 20 (Electronics Storage): No suspect material was found in this building.

<u>BUILDING 21 (277<sup>th</sup> QM HQ)</u> Confirmed non-friable ACBM in the form of floor tile, floor tile mastic and coving mastic are located in the building.

<u>BUILDING 22 (Dining Hall/Storage)</u>: Confirmed friable ACBM in the form of fitting TSI and cork ceiling panels was found in this building.

<u>BUILDING 23 (Storage Building)</u>: Confirmed non-friable ACBM in the form of roofing mastic is located in the building.

BUILDING 24 (Storage Building): No suspect material was found in this building.

BUILDING 25 (Former Power Plant) No confirmed ACBM was found in this building.

<u>BUILDING 26 (Storage Building)</u>: Confirmed non-friable ACBM in the form of roofing mastic is located in the building.

**See individual Building Summaries for detailed information on these materials.** Buildings containing asbestos are required to be included in an Operations and Maintenance (O&M) Program. Any identified asbestos containing material not removed must be maintained following the guidelines of an O&M Plan.

### 3. **RENOVATION/DEMOLITION**

The National Emission Standard for Hazardous Air Pollutants (NESHAP) 40 CFR Part 61 requires written notification to the state and/or local environmental regulators at least ten working days prior to renovation or demolition of ACBM in quantities of 260 linear feet, 160 square feet, 35 cubic feet, or greater, except in cases of emergencies.

Contractors are advised to verify most current regulations with the state and/or local environmental regulators prior to start of any work.

### 4. **REPORT ORGANIZATION**

Specific, detailed information on each inspected building is noted in the *BUILDING SUMMARIES* section of this report and include the following:

Photos of existing buildings Narrative description of the building with findings and recommendations Building Summary Table Report Summary Table Laboratory Test Results Table, if applicable Operations and Maintenance Table, if applicable CADD drawing showing sample locations, if applicable Chain of Custody and laboratory results forms

Following the *BUILDING SUMMARIES* is a tabbed section for *TRAINING*. Copies of each inspector's appropriate certificates and laboratory accreditations are included there.

### 5. SAMPLING STRATEGY

The sampling and analysis of bulk samples was conducted in accordance with established AHERA guidelines. Unless otherwise stated, the following sampling scheme was utilized during the survey:

### Thermal System Insulation (TSI)

- 1) A minimum of 1 sample was taken of each homogenous area <6 linear feet (LF) or <6 square feet (SF).
- 2) A minimum of 3 samples was taken of each homogenous area >6 LF or > 6 SF.

### Surfacing Materials

1) A minimum of 3 samples were taken of each homogeneous area of material 1000 SF or less.

2) A minimum of 5 samples were taken of each homogenous area of material greater than 1000 SF but less than 5000 SF.

3) A minimum of 7 samples were taken of each homogenous area of material greater than 5000 SF.

<u>Miscellaneous Materials</u> (Including floor tiles, ceiling tiles and mastics) A minimum of 2 samples

### 6. **DISCLAIMER**

A comprehensive and thorough asbestos inspection was conducted on these facilities by certified and experienced Environmental Enterprise Group asbestos inspectors. Every effort was made to identify all ACBM in the facility, but due to random sampling techniques mandated by EPA regulations and the non-destructive sampling policy for this project, the possibility always exists that some ACBM remains undetected.

|          |                                      |                    | -       | Number | of Homoger | Number of Homogeneous Areas |  |
|----------|--------------------------------------|--------------------|---------|--------|------------|-----------------------------|--|
| Bldg No. | Bldg Name or Description             | Year Built Sq. Ft. | Sq. Ft. | Total  | Assumed    | Assumed Confirmed           | Comments   |
| 18       | AMSA 76/Motorpool                    | 1956               | 9,720   | 7      | 0          | 0                           | No asbestos detected in this building  |
| 19       | Storage Quonset Hut                  | 1956               | 1,600   | 2      | 0          | 7                           | Sheetrock joint compound (mud) - roofing mastic  |
| 21       | 277th Quartermasters HQ              | 1956               | 13,055  | ω      | £          | 2                           | Floor tile - floor tile mastic - coving mastic   |
| 22       | Dining Hall/Storage                  | 1956               | 20,703  | ი      | 0          | 7                           | Cork ceiling panels - fitting TSI  |
| 23       | Storage Building                     | 1956               | 2,058   | 0      | 0          | -                           | Roofing mastic   |
| 25       | Former Power Plant                   | 1956               | 1,504   | -      | 0          | 0                           | No asbestos detected in this building  |
| 26       | Storage Building                     | 1960               | 2,150   | -      | 0          | -                           | Roofing mastic   |
| 4        | Niagara Falls Army Reserve<br>Center | 1956               | 85,500  | 15     | ю          | 4                           | Aircell piping TSI - white piping TSI - Vent duct TSI - Floor tiles - floor tile mastic - fire doors |
|          |                                      |                    |         |        |            |                             |  |

NOTES: Buildings 20 and 24 are not listed above because no suspect material was found there.

### Report Summary Table Page 1 of 1

# **REPORT SUMMARY TABLE**

US ARMY RESERVE CENTER - NIAGARA FALLS ASBESTOS BUILDING INSPECTION

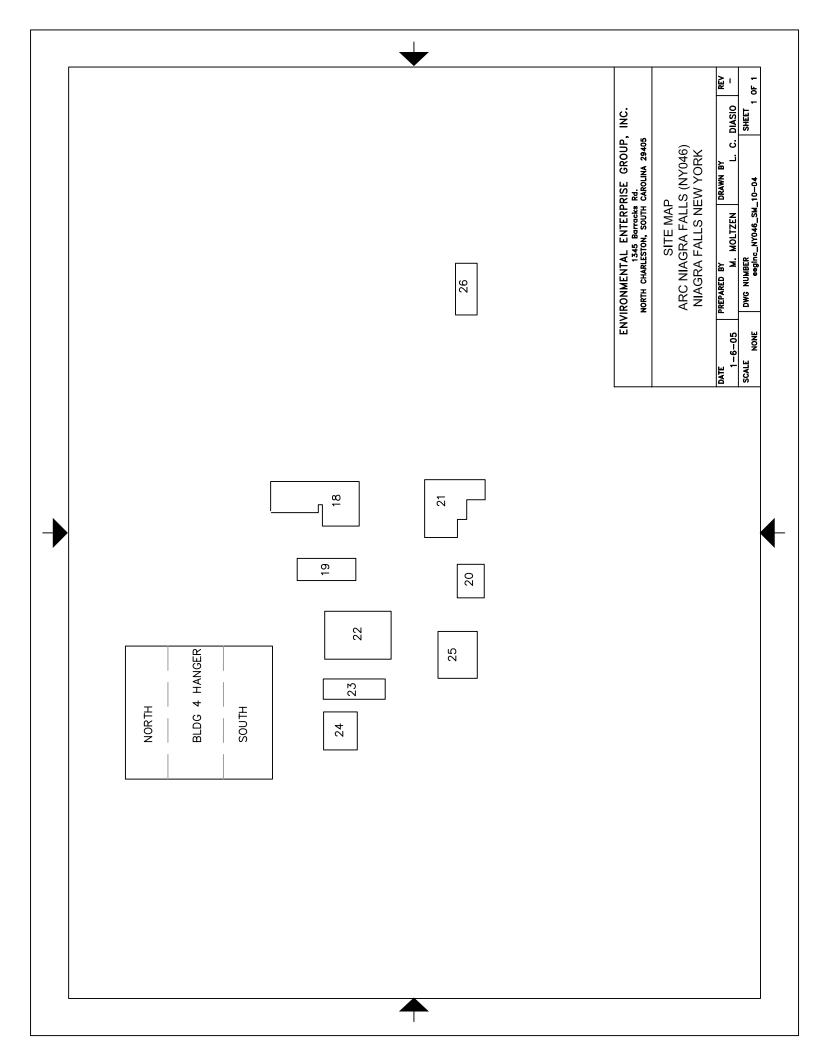
### US ARMED FORCES RESERVE CENTER - NIAGARA FALLS (NY046) ASBESTOS INSPECTION REPORT

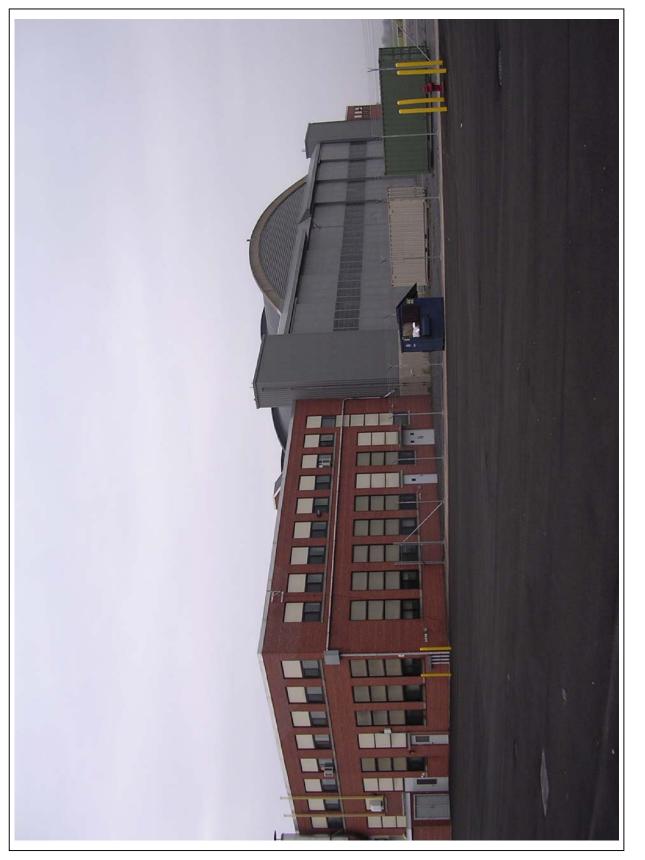
### **BUILDING SUMMARIES**

The following pages report observations noted and suggest actions required as a result of an asbestos inspection conducted by Environmental Enterprise Group, Inc. in October of 2004. Ten (10) buildings at the US Army Reserve Center located in Niagara Falls, NY were inspected for possible presence of suspect/assumed asbestos. This section provides *Description, Findings, Observations, Recommended Abatement Action, and Recommendations for Operations and Maintenance* for each building inspected.

The room numbers shown on the CADD drawings and referenced in this report were assigned by the inspectors at the time of inspection unless previous room numbers were assigned and displayed.

Some room numbers are prefixed by a letter to indicate the type of room; E indicates an entry to the building, H indicates a hallway, R indicates a roof, S indicates a stairwell, A is an attic area and B indicates basement rooms.





Building 4 – Main Reserve Building Niagara Falls Armed Forces Reserve Center – Niagara Falls, NY (NY046)

### **BUILDING 4: Niagara Falls Armed Forces Reserve Center**

### 1. DESCRIPTION:

Building 4 is an 85,500 square-foot building constructed in 1956. It is a large metal-framed hanger with 2-story brick buildings attached on the north and south sides. All roofs are rubber-coated. The following information was identified during the survey and from the analysis of the samples taken:

- Fifteen homogeneous areas were identified during the initial survey.
- Three homogeneous areas were assumed to contain asbestos.
- Twelve of the homogeneous areas were suspected to contain asbestos and sampled to confirm.
- Four of the suspected homogeneous areas were confirmed to contain asbestos.
- Eight of the suspected homogenous areas did not contain asbestos.

### 2. FINDINGS:

Twelve homogeneous areas with suspected ACM were identified. Thirtyeight samples were collected and analyzed. Sample results are summarized in the Laboratory Test Results table in this section. Friable asbestos was found in three of the homogeneous areas.

**Confirmed ACM.** The following homogeneous areas sampled were confirmed to contain asbestos:

- H-4: TSI, PIPE, AIRCELL, Gray, was Moderately-friable and Damaged.
- H-8: TSI, PIPE, FIBROUS, White, was Highly-friable and Not Damaged.
- H-9: MISC, FLOOR TILE MASTIC ONLY, Black mastic under 12" light brown floor tile, was Non-friable and Not Damaged.
- H-11: TSI, VENT DUCT, FIBROUS, White, was Highly-friable and Damaged.

**Assumed ACM.** The following homogeneous areas were assumed to contain asbestos:

- H-5: MISC, FLOOR TILE & MASTIC, 9" dark brown tile/mastic, was Moderately-friable and Not Damaged.
- H-14: MISC, FIRE DOOR, Metal, was Non-friable and Not Damaged.
- H-15: MISC, FLOOR TILE & MASTIC, 9" green tile w/white streaks/mastic, was Non-friable and Not Damaged.

**Asbestos Free.** Asbestos was not detected in the following homogeneous areas:

- H-1: MISC, COVING MASTIC, Brown
- H-2: TSI, FITTING, CLOTH WRAPPED, Gray
- H-3: MISC, SHEETROCK/MUD, White
- H-6: MISC, ACOUSTICAL TILE, White w/grooves & small holes
- H-7: MISC, ACOUSTICAL TILE, White smooth w/pinholes
- H-10: MISC, FLOOR TILE & MASTIC, 12" tan tile w/brown & white marbling/mastic
- H-12: SURFACING, FIREPROOFING, White
- H-13: SURFACING, FIREPROOFING, Gray

### 3. OBSERVATIONS:

Rooms from the north side building (4N) have an "N" preface and rooms from the south side (4S) have no preface. 12" brown floor tile with brown & white marbling and ceiling tiles were replaced when building was renovated in 2001/02 and these materials are not considered to be suspect.

### 4. RECOMMENDED ABATEMENT ACTIONS:

Recommended actions for the following homogeneous areas:

- H-4: TSI, PIPE, Gray: Remove/O&M
- H-5: MISC, FLOOR TILE & MASTIC, 9" dark brown tile/mastic: O&M
- H-8: TSI, PIPE, White: Remove/O&M
- H-9: MISC, FLOOR TILE MASTIC ONLY, Black mastic under 12" light brown floor tile: **O&M**
- H-11: TSI, VENT DUCT, White: Remove/O&M
- H-14: MISC, FIRE DOOR, Metal: **O&M**
- H-15: MISC, FLOOR TILE & MASTIC, 9" green tile w/white streaks/mastic: O&M

### 5. RECOMMENDATIONS FOR OPERATIONS AND MAINTENANCE:

Operations and Maintenance (O&M) recommendations for confirmed and assumed homogeneous materials of ACM are found in the Operations & Maintenance Table of this report. The materials listed below should be maintained following the guidelines in the O&M Plan during regular maintenance and small-scale repair activities, until removed. TSI PIPE is Confirmed, Moderately-friable ACM.

H-4 (PIPE, Gray) is located in Rooms 100, 101, 102, 102b, 103, 104, 105, 106, 107, 103a, 110, 110a, 110b, 121, 121a, 122, 122a, 122b, 122c, 122d, 124a, 124b, 124c, 124d, E-001, E-002, N100, N103, N105, N107, N109a, N111, N112, N117, N118a, N118b, N119, N120, N121, N122, NH-100, N208, N210, N212, N214, N225, Hanger bay and Hall NH-101.

H-8 (PIPE, White) is located in Rooms 103, 104, 107, E-002 and N121.

MISC FLOOR TILE & MASTIC is Assumed, Non-friable ACM.

H-5 (FLOOR TILE & MASTIC, 9" dark brown tile/mastic) is located in Rooms 103, 106, 107, 121, 124a, 124b, 144, 208, 210, 211, 214, 216b, 228, 228a, 229, 250, 251, 252, 253, 255, 257, 258, 259, 260, 261, 262, 263, 264, 281, 282, N103, N104, N104a, N105, N107, N108a, N108b, N109b, N109c, N117, N118b, N201, N202, N202a, N203, N204, N204a, N205, N208, N210, N212, N212a, N214 and N216.

H-15 (FLOOR TILE & MASTIC, 9" green tile w/white streaks/mastic) is located in Room N115.

MISC FLOOR TILE MASTIC ONLY is Confirmed, Non-friable ACM.

H-9 (FLOOR TILE MASTIC ONLY, Black mastic under 12" light brown floor tile) is located in Rooms 100, 212, 216, 216a, 216c, 216d, 216e, 224, 230, 231, 232, 232a, 232b, 232c, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 246, 248, 247a and Entry E-001.

TSI VENT DUCT is Confirmed, Highly-friable ACM.

H-11 (VENT DUCT, White) is located in Room 216c.

MISC FIRE DOOR is Assumed, Non-friable ACM.

H-14 (FIRE DOORS, Metal) are located in Room N115a and the Hanger bay.

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## US ARMY RESERVE CENTER - NIAGARA FALLS ASBESTOS BUILDING INSPECTION

Building No. 4

| Comments              |                            |                            |                                   |                          |                            |                 |                          | . 121a. 122, 122a, 122b, 122c, 122d, 124a, 124b, 124c,124d, E-001, E-002, Hanger, N100, N103, N105, N107, N109a,, N111, N112, N117, 25, NH+101              | Located under carpet in some listed rooms.           | 1, 282, N103, N104, N104a, N105, N107, N108a, N108b, N109b,  |  |                     |  |                               |                           |                                  | Mastic contains asbestos, floor tile does not.                                 | 01   |   |                   |                                |            |
|-----------------------|----------------------------|----------------------------|-----------------------------------|--------------------------|----------------------------|-----------------|--------------------------|---|--|--|--|---------------------|--|-------------------------------|---------------------------|----------------------------------|--|--|---|-------------------|--------------------------------|------------|
| Abate<br>Cost         |                            |                            |                                   |                          |                            |                 |                          | E-001, E-00   |  | 263, 264, 28   |  |                     |  |                               |                           |                                  |  | 48, 247a, E-0  |   |                   |                                |            |
| Recommended<br>Action |                            |                            |                                   |                          |                            |                 | Remove/O&M               | 4a, 124b, 124c,124d,  | O&M  | , 259, 260, 261, 262, 3  |  | -                   |  |                               | Remove/O&M                |                                  | O&M  | 242, 243, 244, 246, 24   |   |                   | Remove/O&M                     |            |
| ° D                   |                            |                            |                                   |                          |                            |                 | 0.2                      | 22d, 12   | 0.0  | 57, 258  |  |                     |  |                               | 0.0                       |                                  | 0.0  | 0, 241, 3  |   |                   | 8.0                            |            |
| Fria- Cond<br>bility  |                            |                            |                                   |                          |                            |                 | ۵                        | 122c, 1   | B  | 3, 255, 2<br>N216  |  |                     |  |                               | DA                        |                                  | D  | 239, 24  |   |                   | ۵                              |            |
| Fria-<br>bility       |                            |                            |                                   |                          |                            |                 | Mod                      | a, 122b,  | Mod  | 252, 253<br>, N214,  |  |                     |  |                               | High                      |                                  | Non  | 37, 238,   |   |                   | High                           | -          |
| Rating                | 0                          |                            | 0                                 |                          | 0                          |                 | 35                       | 22, 122;  | 24   | 0, 251, :<br>, N212a   | 0  |                     | 0  |                               | 26                        |                                  | ю  | 236, 23  | 0   |                   | 33                             |            |
| Quantity Rating       | SF                         |                            | SF                                |                          | SF                         |                 | 5,924 LF                 | , 121, 121a, 122<br>, N225, NH-101  | 20,538 SF  | 228a, 229, 25<br>3, N210, N212   | SF   | -                   | SF   |                               | 3,390 LF                  | _                                | 6,945 SF   | 2b, 232c, 235,   | SF  |                   | 198 SF                         |            |
| Material Description  | Misc, COVING MASTIC, Brown | Rooms 104, E-001s, various | TSI, FITTING, CLOTH WRAPPED, Gray | Rooms 103, N109a, S-001s | Misc, SHEETROCK/MUD, White | Rooms 206, N117 | TSI, PIPE, AIRCELL, Gray | Rooms 100, 101, 102, 102b, 103, 104, 105, 106, 107, 103a, 110, 110a, 110b, 121<br>N118a, N118b, N119, N120, N121, N122, NH-100, N208, N210, N212, N214, N22 | Misc, FLOOR TILE & MASTIC, 9" dark brown tile/mastic | Rooms 103, 106, 107, 121, 124a, 124b, 144, 208, 210, 211, 214, 216b, 228, 228a, 229, 250, 251, 252, 253, 255, 257, 258, 259, 260, 261, 262, 263, 264, 281, 282, N103, N104, N105, N107, N108a, N108b, N109b, N109c, N117, N118b, N201, N202, N203, N204, N204a, N205, N208, N210, N212, N214, N216 | Misc, ACOUSTICAL TILE, White w/grooves & small holes | Rooms 128, 129, 144 | Misc, ACOUSTICAL TILE, White smooth w/pinholes | Rooms 102a, N104, N104a, N105 | TSI, PIPE, FIBROUS, White | Rooms 103, 104, 107, E-002, N121 | Misc, FLOOR TILE MASTIC ONLY, Black mastic under 12"<br>light brown floor tile | Rooms 100, 212, 216, 216a, 216c, 216d, 216e, 224, 230, 231, 232, 232a, 232b, 232c, 235, 236, 237, 238, 239, 240, 241, 242, 244, 246, 248, 248, 247a, E-001 | Misc, FLOOR TILE & MASTIC, 12" tan tile w/brown & white marbling/mastic | Rooms 202, NH-100 | TSI, VENT DUCT, FIBROUS, White | Rooms 216c |
| ACM<br>Y,N,A          | z                          |                            | z                                 |                          | z                          |                 | ≻                        |   | ۲  |  | z  |                     | z  |                               | ۲                         |                                  | ≻  |  | z   |                   | ≻                              |            |
| ±γ                    | -                          |                            | 7                                 | ]                        | n                          | ]               | 4                        | ]   | 2  |  | ဖ  |                     | 2  | ]                             | 8                         | ]                                | ი  | ]  | 10  |                   | 7                              | ]          |

H-No= Homogenous Area Number, ACM= Asbestos Containing Material: Y=Yes, N= No, A= Assumed, TSI= Thermal System Insulation, Misc= Miscellaneous, Quantity: SF= Square Footage, LF= Linear Feet, Friability: Mod= Moderate, Condition: PD= Potential for Damage, D= Significantly Damaged, Recommended Action: O&M= Operation and Maintenance

Building Summary Table Page 1 of 2

| BL | זור                | BUILDING SUMMARY TABLE  | US ARMY RESERVE CENTER - NIAGARA FALLS<br>ASBESTOS BUILDING INSPECTION | RESE<br>EST( | RVE<br>SS B | CE              | DIN  | - L<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2 | MY RESERVE CENTER - NIAGARA F<br>ASBESTOS BUILDING INSPECTION | FALL          | S Building No. 4  |   |
|----|--------------------|---|--|--------------|-------------|-----------------|------|--|---|---------------|---|---|
| ±Υ | H- ACM<br>No Y,N,A | Material Description  | 0  | tuantity     | Rating      | Fria-<br>bility | Cond | D %  | Quantity Rating Fria- Cond % Recommended bility D Action      | Abate<br>Cost | Comments  | I |
| 12 | z                  | Surfacing, FIREPROOFING, White                                  |  | SF           | 0           |                 |      |  |   |               |   | 1 |
|    |                    | Rooms Hanger  |  |              |             |                 |      |  |   |               |   | - |
| 13 | z                  | Surfacing, FIREPROOFING, Gray                                   |  | SF           | 0           |                 |      |  |   |               |   |   |
|    |                    | Rooms Hanger  |  |              |             |                 |      |  |   |               |   | - |
| 14 | ۷                  | A Misc, FIRE DOOR, Metal  |  | 308 SF       | 10          | 10 Non          | PD   | 0.0  | O&M   |               | Doors located in hanger bay & north side mechanical room. |   |
|    |                    | Rooms N115a, Hanger   | -  |              |             |                 |      |  |   |               |   |   |
| 15 | ۷                  | Misc, FLOOR TILE & MASTIC, 9" green tile w/white streaks/mastic | white  | 84 SF        | 11          | Non             | DD   | 0.0  | O&M   |               |   |   |

Note: Asbestos abatement cost estimates are not included in this report.

Rooms N115

Building Summary Table Page 2 of 2

H-No= Homogenous Area Number, ACM= Asbestos Containing Material: Y=Yes, N= No, A= Assumed, TSI= Thermal System Insulation, Misc= Miscellaneous, Quantity: SF= Square Footage, LF= Linear Feet, Friability: Mod= Moderate, Condition: PD= Potential for Damage, D= Damaged, SD= Significantly Damaged, Recommended Action: O&M= Operation and Maintenance

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### US ARMY RESERVE CENTER - NIAGARA FALLS ASBESTOS BUILDING INSPECTION INDUSTRIAL LABORATORY TEST REPORT

Building No. 4

| Nagrille-old         E-0015         Mac. COVING MASTC, Enom         1013001         1020001         No Absentso Denecled           Nagrille-061         103         Nac. COVING MASTC, Enom         1013101         1022004         No Absentso Denecled           Nagrille-051         S-0018         TSI, FITTING, Gray         1013104         1022004         No Absentso Denecled           Nagrille-053         X008         TSI, FITTING, Gray         1013104         1022004         No Absentso Denecled           Nagrille-053         X013         TSI, FITTING, Gray         1013104         1022004         No Absentso Denecled           Nagrille-053         X013         TSI, FITE         Mile         1013104         1022004         No Absentso Denecled           Nagrille-056         N117         TSI, FITE, Gray         1013104         1022004         No Absentso Denecled         1           Nagrille-056         N117         TSI, FITE, Gray         101304         1022004         No Absentso Denecled         1           Nagrille-056         N117         TSI, FITE, Mile wyDoweS & amal holes         101304         1022004         No Absentso Denecled         1           Nagrille-056         N117         TSI, FITE, Mile wyDoweS & amal holes         1013041         1022004         No Absentso Denecle  | Homo.<br>Area No. | ASB<br>Y/N | Sample Number | Room Number |   | Date<br>Sampled | Date<br>Analyzed | Sample Results       | Percent<br>Asbestos |
|--|-------------------|------------|---------------|-------------|---|-----------------|------------------|----------------------|---------------------|
| N0         Nagrills-049         104         Mise. COVING MSTIC. Brown         101304         1022004         No Absetsto Detected         No           N0         Nagrills-051         S-031         TSI, FITTING, Gray         101304         1022004         No Absetsto Detected         No           N0         Nagrills-051         S-013         TSI, FITTING, Gray         101304         1022004         No Absetsto Detected         No           N0         Nagrills-054         N117         Nics. HEET ROCKMUD, While         101304         1022004         No Absetsto Detected         No           N0         Nagrills-055         N117         TSI, PIEE Gray         101304         102304         No Absetsto Detected         No           N0         Nagrills-057         N117         TSI, PIEE Gray         101304         102304         No Absetsto Detected         No           N0         Nagrills-057         N117         TSI, PIEE Gray         101304         102304         No Absetsto Detected         No           N0         Nagrills-053         104         No Absetsto Detected         No         No         No         No           N0         Nagrills-053         104         No Absetsto Detected         No         No         No         No   | ٢                 | 0N         | NiagrfIIs-048 | E-001s      | Misc, COVING MASTIC, Brown                                      | 10/13/04        | 10/20/04         | No Asbestos Detected | %0                  |
| NO         Nageffie-050         103         Tel, FTTING, Gay         Not Assesses Deeceded         Not Ass | ٦                 | NO         | Niagrflls-049 | 104         |   | 10/13/04        | 10/20/04         | No Asbestos Detected | %0                  |
| NO         Nagrills-051         5-001s         TSI, FTTING, Gary         107304         102004         No Absenses Detected           NO         Nagrills-053         N017         TSI, FTTING, Gary         107304         102004         No Absenses Detected         1           NO         Nagrills-053         N117         Nac, SHETROCKANUD, White         107304         102004         No Absenses Detected         1           YES         Nagrills-055         N117         TSI, PPE, Gary         107304         102004         No Absenses Detected         1           YES         Nagrills-055         N117         TSI, PPE, Gary         107304         102004         No Absenses Detected         1           NO         Nagrills-055         N117         TSI, PPE, Gary         107304         102004         No Absenses Detected         1           NO         Nagrills-056         N141         TSI, PPE, Unite         107304         102004         No Absenses Detected         1         1           NO         Nagrills-058         1107         TSI, PPE, Unite         107304         102004         No Absenses Detected         1         1         1         1         1         1         1         1         1         1         1         1  | 2                 | ON         | NiagrfIls-050 | 103         | TSI, FITTING, Gray  | 10/13/04        | 10/20/04         | No Asbestos Detected | %0                  |
| NO         Nagrills-052         N109a         TSI, FITTING, Gray.         1071304         107204         No. Assesses Detected         1           NO         Nagrills-055         103a         TSI, PIPE, Gray.         107304         102004         No. Assesses Detected         1           YES         Nagrills-055         103a         TSI, PIPE, Gray.         107304         102004         Chrystolie         1           YES         Nagrills-055         103a         TSI, PIPE, Gray.         107304         102004         Chrystolie         1           No         Nagrills-055         144         Misc. ACOUSTICAL TLE, White wydrowsa & small holes         1071304         102004         Chrystolie         1         4           NO         Nagrills-055         144         Misc. ACOUSTICAL TLE, White smooth wydrowsa & small holes         1071304         102004         Chrystolie         4         4           NO         Nagrills-055         144         Misc. ACOUSTICAL TLE, White smooth wydrowsa & small holes         1071304         102004         Chrystolie         4         4           NO         Nagrills-055         144         Misc. ACOUSTICAL TLE, White smooth wydrowsa & small holes         1071304         102004         Chrystolie         4         4         4         4  | 2                 | ON         | Niagrflls-051 | S-001s      | TSI, FITTING, Gray  | 10/13/04        | 10/20/04         | No Asbestos Detected | %0                  |
| NO         Nagrills-053         206         Misc. SHEETROCXMUD, While         101304         102304         No.Asbestres Detected           ND         Nagrills-055         N117         TRI, IPPE, Gray         TRI, PIPE, Gray         Chrystelle         Chrystelle           YES         Nagrills-056         N117         TSI, IPPE, Gray         107304         102304         Chrystelle         Chrystelle           YES         Nagrills-056         N117         TSI, IPPE, Gray         101304         102304         Chrystelle         Chrystelle           NO         Nagrills-056         N117         TSI, IPPE, Gray         101304         102304         No.Asbestres Detected         No           NO         Nagrills-060         10.24         Misc, ACOUSTICAL TLE, White smooth wp/inholes         101304         102304         No.Asbestres Detected         No           NO         Nagrills-061         N105         Misc, ACOUSTICAL TLE, White smooth wp/inholes         101304         102304         No.Asbestres Detected         No           NO         Nagrills-062         N105         TSI, IPPE, White         101304         102304         No.Asbestres Detected         No           YES         Nagrills-063         107         TSI, IPPE, White         107304         102304   | 2                 | Q          | Niagrflls-052 | N109a       | TSI, FITTING, Gray  | 10/13/04        | 10/20/04         | No Asbestos Detected | %0                  |
| NO         Nagrille-064         N117         Misc. SHEETROCKMUD, While         101'304         102'004         Notsetste Detected           YES         Nagrille-065         101         TS, IPEE, Gray         TOTY-004         Chrysofte           YES         Nagrille-065         N117         TS, IPEE, Gray         TOTY-004         Chrysofte           YES         Nagrille-065         N117         TS, IPEE, Gray         TOTY-004         Chrysofte           NO         Nagrille-065         114         Misc. ACOUSTICAL TLE, While wordows & small holes         107'3.04         107'3.04         Chrysofte           NO         Nagrille-065         114         Misc. ACOUSTICAL TLE, While smooth wpinholes         107'3.04   | 3                 | NO         | NiagrfIls-053 | 206         | Misc, SHEETROCK/MUD, White                                      | 10/13/04        | 10/20/04         | No Asbestos Detected | %0                  |
| VES         Nagrills-055         103a         TSI, PIPE, Grayy         Comysolite         Comysolite           VES         Nagrills-055         NH-101         TSI, PIPE, Grayy         101304         1022004         Comysolite         1           NG         Nagrills-055         144         Miss, ACOUSTICAL TLE, White wignowes & small holes         1011304         1022004         Comysolite         1           NO         Nagrills-055         144         Miss, ACOUSTICAL TLE, White wignowes & small holes         1011304         1022004         Nonsolite         1           NO         Nagrills-055         144         Miss, ACOUSTICAL TLE, White wignowes & small holes         1011304         102004         Nonsolite         1           NO         Nagrills-055         144         Miss, ACOUSTICAL TLE, White wignowes & small holes         1011304         102004         Nonsolite         1           NO         Nagrills-055         16-02         TSI, PIPE, White         1011304         102004         Nonsolite         1         1           VES         Nagrills-065         107         TSI, PIPE, White         101304         102004         Nonsolite         1         1         1           VES         Nagrills-065         TSI, PIPE, White         101304  | ю                 | ON         | NiagrfIls-054 | N117        | Misc, SHEETROCK/MUD, White                                      | 10/13/04        | 10/20/04         | No Asbestos Detected | %0                  |
| YES         Nagrills-G65         NH-101         TSI, PPE, Gray         101304         102004         Chrysolie         101304         102004         102004         101  | 4                 | YES        | NiagrfIls-055 | 103a        | TSI, PIPE, Gray   | 10/13/04        | 10/20/04         | Chrysotile           | 8%                  |
| YES         Nagrills-G67         N117         TSI, IPIE, Gray         Chrysolite         Chrysolite </td <td>4</td> <td>YES</td> <td>Niagrflls-056</td> <td>NH-101</td> <td>TSI, PIPE, Gray</td> <td>10/13/04</td> <td>10/20/04</td> <td>Chrysotile</td> <td>%2</td>              | 4                 | YES        | Niagrflls-056 | NH-101      | TSI, PIPE, Gray   | 10/13/04        | 10/20/04         | Chrysotile           | %2                  |
| NO         Nagrills-G6         144         Misc, ACOUSTICAL TILE, White wignoves & small holes         107/304         102/204         No Asbestos Detected         1           NO         Nagrills-G63         144         Misc, ACOUSTICAL TILE, White wignoves & small holes         107/304         102/204         No Asbestos Detected         1           NO         Nagrills-G63         144         Misc, ACOUSTICAL TILE, White smooth wipinholes         107/304         102/204         No Asbestos Detected         1           YES         Nagrills-G23         E-002         TSI, PPE, White         107/304         102/004         No Asbestos Detected         1         1           YES         Nagrills-G23         TO7         TSI, PPE, White         107/304         102/004         No Asbestos Detected         1         1           YES         Nagrills-G23         TO7         TSI, PPE, White         107/304         102/004         Amostile         3         3           YES         Nagrills-G63         TO7         TSI, PPE, White         107/304         102/304         CMysotile         1         1         3           YES         Nagrills-G63         TO7         TSI, PPE, White         107/304         102/304         CMysotile         1         1         1   | 4                 | YES        | NiagrfIls-057 | N117        | TSI, PIPE, Gray   | 10/13/04        | 10/20/04         | Chrysotile           | 5%                  |
| NO         Nagrifis-060         144         Misc, ACOUSTICAL TILE, White wignoose 8 small holes         101304         10.2004         No Assertso Detected         1           NO         Nagrifis-060         102a         Misc, ACOUSTICAL TILE, White wignoose 8 small holes         101304         102004         No Assertso Detected         1           NO         Nagrifis-060         102a         Kis, ACOUSTICAL TILE, White smooth wpinholes         1017304         102004         No Assertso Detected         1           YES         Nagrifis-062         E-002         TSI, PIPE, White         1017304         102004         Amostite         3           YES         Nagrifis-063         107         TSI, PIPE, White         1071304         102004         Amostite         3           YES         Nagrifis-063         107         TSI, PIPE, White         1071304         102004         Amostite         3           YES         Nagrifis-063         107         TSI, PIPE, White         1071304         102004         Amostite         4           YES         Nagrifis-063         107         TSI, PIPE, White         1071304         102004         Amostite         4           YES         Nagrifis-063         107         TSI, PIPE, White         1071304         102004   | 9                 | ON         | Niagrflls-058 | 144         |   | 10/13/04        | 10/20/04         | No Asbestos Detected | %0                  |
| NO         Niagrilis-060         102a         Miss, ACOUSTICAL TLE, White smooth wpinholes         101304         1020/04         No Asbestos Detected         1           NO         Niagrilis-061         N105         Miss, ACOUSTICAL TLE, White smooth wpinholes         101304         1020/04         No Asbestos Detected         1           YES         Niagrilis-062         E-002         TSI, PIPE, White         101304         1020/04         Anosite         1         1           YES         Niagrilis-063         107         TSI, PIPE, White         101304         1020/04         Anosite         1         1           YES         Niagrilis-063         107         TSI, PIPE, White         101304         1020/04         Anosite         1         1           YES         Niagrilis-064         N121         TSI, PIPE, White         101304         1020/04         Anosite         1         1           YES         Niagrilis-064         N121         TSI, PIPE, White         101304         1020/04         Anosite         1         1           YES         Niagrilis-064         N121         TSI, PIPE, White         101304         1020/04         Chrysotile         1         1           YES         Niagrilis-065         E-001  | 9                 | ON         | NiagrfIls-059 | 144         | F   | 10/13/04        | 10/20/04         | No Asbestos Detected | %0                  |
| NO         Niagrills-061         N105         Misc. ACOUSTICAL TLE, White smooth wpinholes         101'304         102'004         No Absetce Detected         4           YES         Niagrills-062         E-002         TSI, PIPE, White         101'304         102'004         Amosite         4           YES         Niagrills-063         107         TSI, PIPE, White         107         TSI, PIPE, White         107'304         102'04         Amosite         3           YES         Niagrills-063         107         TSI, PIPE, White         107'304         102'04         Amosite         3           YES         Niagrills-063         107         TSI, PIPE, White         107'304         102'04         Amosite         4           YES         Niagrills-064         N121         TSI, PIPE, White         107'304         102'004         Amosite         4           YES         Niagrills-065         E-001         Misc. FLOORT TLE MASTIC ONLY, Black mastic under 12' light bit         107'304         102'004         Amosite         4         4           YES         Niagrills-065         217         Misc. FLOORT TLE MASTIC ONLY, Black mastic under 12' light bit         107'304         102'004         Chrysotile         7           YES         Niagrills-065  | 7                 | ON         | NiagrfIls-060 | 102a        |   | 10/13/04        | 10/20/04         | No Asbestos Detected | %0                  |
| YES         Nagrills-062         E-002         TSI, PIPE, White         101         101/304         102004         Amosite         4           YES         Niagrills-062         E-002         TSI, PIPE, White         107         TSI, PIPE, White         107         TSI, PIPE, White         107         3           YES         Niagrills-063         107         TSI, PIPE, White         107         TSI, PIPE, White         107/304         102004         Chrysotile         1         1           YES         Niagrills-064         N121         TSI, PIPE, White         101/304         102/04         Chrysotile         1         <  | 7                 | ON         | Niagrflls-061 | N105        |   | 10/13/04        | 10/20/04         | No Asbestos Detected | %0                  |
| YES         Niagrfils-062         E-002         TSI, PIPE, White         1013/04         1073/04         1070/01         Chrysotile         1           YES         Niagrfils-063         107         TSI, PIPE, White         1013/04         10/20/04         Chrysotile         1           YES         Niagrfils-063         107         TSI, PIPE, White         10/13/04         10/20/04         Amosite         3           YES         Niagrfils-064         N121         TSI, PIPE, White         10/13/04         10/20/04         Amosite         4           YES         Niagrfils-064         N121         TSI, PIPE, White         10/13/04         10/20/04         Amosite         4           YES         Niagrfils-064         N121         TSI, PIPE, White         10/13/04         10/20/04         Amosite         4           YES         Niagrfils-065         E-001         Misc, FLOOR TILE MASTIC ONLY, Black mastic under 12' light bro         10/13/04         10/20/04         Nostoso Detected         7           NO         Niagrfils-065         202         Misc, FLOOR TILE & MASTIC, 12' tan tile w/brown & white marblin         10/13/04         10/20/04         Nohysotile         7           NO         Niagrfils-076         2026         TSI, VENT DUCT, White  | 8                 | YES        | Niagrflls-062 | E-002       | TSI, PIPE, White  | 10/13/04        | 10/20/04         | Amosite              | 40%                 |
| YES         Niagrills-063         107         TSI, PIPE, White         TSI, PIPE, White         Amosite         3           YES         Niagrills-063         107         TSI, PIPE, White         TSI, PIPE, White         10/13/04         10/20/04         Amosite         3           YES         Niagrills-063         107         TSI, PIPE, White         10/13/04         10/20/04         Chrysotile         1           YES         Niagrills-064         N121         TSI, PIPE, White         10/13/04         10/20/04         Amosite         4           YES         Niagrills-064         N121         TSI, PIPE, White         10/13/04         10/20/04         Amosite         4           NO         Niagrills-065         E-001         Misc, FLORTILE MASTIC ONLY, Black mastic under 12" light bro         10/13/04         10/20/04         Chrysotile         1           NO         Niagrills-065         247a         Misc, FLORTILE MASTIC, 12" tan tile w/brown & white marbin         10/13/04         10/20/04         No Asbestos Detected         7           NO         Niagrills-065         216c         TSI, VENT DUCT, White         10/13/04         10/20/04         10/20/04         10/73/04         7           NO         Niagrifls-070         216c         TSI, VENT DUCT, Wh  | 8                 | YES        | Niagrflls-062 | E-002       | TSI, PIPE, White  | 10/13/04        | 10/20/04         | Chrysotile           | 15%                 |
| YES         Niagrills-063         107         TSI, PIPE, White         10/13/04         10/20/04         Chrysotile         1           YES         Niagrills-064         N121         TSI, PIPE, White         10/13/04         10/20/04         Amosite         4           YES         Niagrills-064         N121         TSI, PIPE, White         10/13/04         10/20/04         Amosite         4           YES         Niagrills-065         E-001         Mise, FLOOR TILE MASTIC ONLY, Black mastic under 12" light brio         10/13/04         10/20/04         Chrysotile         1           NO         Niagrills-065         247a         Mise, FLOOR TILE MASTIC ONLY, Black mastic under 12" light brio         10/13/04         10/20/04         Chrysotile         1           NO         Niagrills-065         247a         Mise, FLOOR TILE MASTIC, 12" tan tile w/brown & white mathlin         10/13/04         10/20/04         Chrysotile         7           NO         Niagrills-066         216c         TSI, VENT DUCT, White         10/13/04         10/20/04         No Asbestos Detected         7           NO         Niagrills-070         216c         TSI, VENT DUCT, White         10/13/04         10/20/04         Chrysotile         7           YES         Niagrills-071         216c  | 8                 | YES        | Niagrflls-063 | 107         | TSI, PIPE, White  | 10/13/04        | 10/20/04         | Amosite              | 35%                 |
| YES         Niagrills-064         N121         TSI, PIPE, White         1013/04         10/13/04         10/13/04         Amosite         4           YES         Niagrills-064         N121         TSI, PIPE, White         10/13/04         10/20/04         Chrysoftile         1           YES         Niagrills-065         E-001         Misc, FLOOR TLE MASTIC ONLY, Black mastic under 12" light brio         10/13/04         10/20/04         Chrysoftile         1           NO         Niagrills-066         247a         Misc, FLOOR TLE & MASTIC, NUY, Black mastic under 12" light brio         10/13/04         10/20/04         No Asbestos Detected         1           NO         Niagrills-066         217a         Misc, FLOOR TLE & MASTIC, 12" tan tile w/brown & white marbin         10/13/04         10/20/04         No Asbestos Detected         7           NO         Niagrills-066         216c         TSI, VENT DUCT, White         10/13/04         10/20/04         No Asbestos Detected         7           YES         Niagrills-010         216c         TSI, VENT DUCT, White         10/13/04         10/20/04         Chrysoftile         7           YES         Niagrills-071         216c         TSI, VENT DUCT, White         10/13/04         10/20/04         Chrysoftile         7           YES <td>8</td> <td>YES</td> <td>Niagrflls-063</td> <td>107</td> <td>TSI, PIPE, White</td> <td>10/13/04</td> <td>10/20/04</td> <td>Chrysotile</td> <td>12%</td>  | 8                 | YES        | Niagrflls-063 | 107         | TSI, PIPE, White  | 10/13/04        | 10/20/04         | Chrysotile           | 12%                 |
| YES         Niagrfils-064         N121         TSI, PIPE, White         1013/04         1070/04         Chrysotile         1           YES         Niagrfils-065         E-001         Misc, FLOOR TILE MASTIC ONLY, Black mastic under 12" light bro         10/13/04         10/20/04         Chrysotile         1           NO         Niagrfils-065         247a         Misc, FLOOR TILE MASTIC ONLY, Black mastic under 12" light bro         10/13/04         10/20/04         No Asbestos Detected         1           NO         Niagrfils-067         202         Misc, FLOOR TILE MASTIC, 12" tan tile w/brown & white marblin         10/13/04         10/20/04         No Asbestos Detected         7           NO         Niagrfils-067         216c         TSI, VENT DUCT, White         10/13/04         10/20/04         No Asbestos Detected         7           YES         Niagrfils-070         216c         TSI, VENT DUCT, White         10/13/04         10/20/04         Chrysotile         7           YES         Niagrfils-071         216c         TSI, VENT DUCT, White         10/13/04         10/20/04         Chrysotile         7           YES         Niagrfils-072         Hanger         Surfacing, FIREPROOFING, White         10/13/04         10/20/04         Nrysotile         7           YES         Ni   | 8                 | YES        | NiagrfIls-064 | N121        | TSI, PIPE, White  | 10/13/04        | 10/20/04         | Amosite              | 40%                 |
| YES         Niagrflis-065         E-001         Misc, FLOOR TILE MASTIC ONLY, Black mastic under 12" light bro         10/13/04         10/20/04         Chrysotile         Chrysotile           NO         Niagrflis-065         247a         Misc, FLOOR TILE MASTIC ONLY, Black mastic under 12" light bro         10/13/04         10/20/04         No Asbestos Detected         No           NO         Niagrflis-065         202         Misc, FLOOR TILE & MASTIC, 12" tan tile w/brown & white marblin         10/13/04         10/20/04         No Asbestos Detected         No           NO         Niagrflis-068         NH-100         Misc, FLOOR TILE & MASTIC, 12" tan tile w/brown & white marblin         10/13/04         10/20/04         No Asbestos Detected         7           YES         Niagrflis-069         216c         TSI, VENT DUCT, White         10/13/04         10/20/04         No Asbestos Detected         7           YES         Niagrflis-070         216c         TSI, VENT DUCT, White         10/13/04         10/20/04         10/20/04         No Asbestos Detected         7           NO         Niagrflis-070         216c         TSI, VENT DUCT, White         10/13/04         10/20/04         10/20/04         No Asbestos Detected         7           NO         Niagrflis-070         216c         TSI, VENT DUCT, White         10/13/0   | 8                 | YES        | NiagrfIls-064 | N121        | TSI, PIPE, White  | 10/13/04        | 10/20/04         | Chrysotile           | 15%                 |
| NO         Niagrills-066         247a         Misc, FLOOR TILE MASTIC ONLY, Black mastic under 12" light bro         10/13/04         10/20/04         No Asbestos Detected         >           NO         Niagrills-067         202         Misc, FLOOR TILE & MASTIC, 12" tan tile w/brown & white marblin         10/13/04         10/20/04         No Asbestos Detected         >           NO         Niagrills-068         NH+100         Misc, FLOOR TILE & MASTIC, 12" tan tile w/brown & white marblin         10/13/04         10/20/04         No Asbestos Detected         >           YES         Niagrills-069         216c         TSI, VENT DUCT, White         10/13/04         10/20/04         10/20/04         No Asbestos Detected         7           YES         Niagrills-071         216c         TSI, VENT DUCT, White         10/13/04         10/20/04         10/20/04         7           YES         Niagrills-071         216c         TSI, VENT DUCT, White         10/13/04         10/20/04         10/79/04         7           NO         Niagrills-073         Hanger         Surfacing, FIREPROOFING, White         10/13/04         10/20/04         No Asbestos Detected         7           NO         Niagrills-073         Hanger         Surfacing, FIREPROOFING, White         10/13/04         10/20/04         No Asbestos Detected<   | 6                 | YES        | NiagrfIls-065 | E-001       | Misc, FLOOR TILE MASTIC ONLY, Black mastic under 12" light bro  |                 | 10/20/04         | Chrysotile           | 5%                  |
| NO         Niagrflls-067         202         Misc, FLOOR TILE & MASTIC, 12" tan tile w/brown & white marblin         10/13/04         10/20/04         No Asbestos Detected         No           NO         Niagrflls-068         NH-100         Misc, FLOOR TILE & MASTIC, 12" tan tile w/brown & white marblin         10/13/04         10/20/04         No Asbestos Detected         7           YES         Niagrflls-069         216c         TSI, VENT DUCT, White         10/13/04         10/20/04         No Asbestos Detected         7           YES         Niagrflls-070         216c         TSI, VENT DUCT, White         10/13/04         10/20/04         10/20/04         7           YES         Niagrflls-071         216c         TSI, VENT DUCT, White         10/13/04         10/20/04         10/20/04         7           NO         Niagrflls-073         Hanger         Surfacing, FIREPROOFING, White         10/13/04         10/20/04         No Asbestos Detected         7           NO         Niagrflls-073         Hanger         Surfacing, FIREPROOFING, White         10/13/04         10/20/04         No Asbestos Detected         7           NO         Niagrflls-073         Hanger         Surfacing, FIREPROOFING, White         10/13/04         10/20/04         No Asbestos Detected         7           NO <td>6</td> <td>NO</td> <td>Niagrflls-066</td> <td>247a</td> <td>Misc, FLOOR TILE MASTIC ONLY, Black mastic under 12" light bro</td> <td></td> <td>10/20/04</td> <td>No Asbestos Detected</td> <td>%0</td>                                     | 6                 | NO         | Niagrflls-066 | 247a        | Misc, FLOOR TILE MASTIC ONLY, Black mastic under 12" light bro  |                 | 10/20/04         | No Asbestos Detected | %0                  |
| NO         Niagrflls-068         NH-100         Misc, FLOOR TILE & MASTIC, 12" tan tile w/brown & white marblin         10/13/04         10/20/04         No Asbestos Detected         7           YES         Niagrflls-069         216c         TSI, VENT DUCT, White         10/13/04         10/20/04         10/20/04         No Asbestos Detected         7           YES         Niagrflls-070         216c         TSI, VENT DUCT, White         10/13/04         10/20/04         10/20/04         7           YES         Niagrflls-071         216c         TSI, VENT DUCT, White         10/13/04         10/20/04         10/20/04         7           NO         Niagrflls-071         216c         TSI, VENT DUCT, White         10/13/04         10/20/04         No Asbestos Detected         7           NO         Niagrflls-071         Panger         Surfacing, FIREPROOFING, White         10/13/04         10/20/04         No Asbestos Detected         7           NO         Niagrflls-073         Hanger         Surfacing, FIREPROOFING, White         10/13/04         10/20/04         No Asbestos Detected         7           NO         Niagrflls-074         Hanger         Surfacing, FIREPROOFING, White         10/13/04         10/20/04         No Asbestos Detected         7           NO         N  | 10                | NO         | Niagrflls-067 | 202         | Misc, FLOOR TILE & MASTIC, 12" tan tile w/brown & white marblin | 10/13/04        | 10/20/04         | No Asbestos Detected | %0                  |
| YES         Niagrflls-069         216c         TSI, VENT DUCT, White         10/13/04         10/20/04         Chrysotile         7           YES         Niagrflls-070         216c         TSI, VENT DUCT, White         10/13/04         10/20/04         Chrysotile         7           YES         Niagrflls-071         216c         TSI, VENT DUCT, White         10/13/04         10/20/04         Chrysotile         7           NO         Niagrflls-072         Hanger         Surfacing, FIREPROOFING, White         10/13/04         10/20/04         No Asbestos Detected         7           NO         Niagrflls-073         Hanger         Surfacing, FIREPROOFING, White         10/13/04         10/20/04         No Asbestos Detected         7           NO         Niagrflls-073         Hanger         Surfacing, FIREPROOFING, White         10/13/04         10/20/04         No Asbestos Detected         7           NO         Niagrflls-074         Hanger         Surfacing, FIREPROOFING, White         10/13/04         10/20/04         No Asbestos Detected         7  | 10                | NO         | Niagrflls-068 | NH-100      |   | 10/13/04        | 10/20/04         | No Asbestos Detected | %0                  |
| YES         NiagrIIs-070         216c         TSI, VENT DUCT, White         10/13/04         10/20/04         Chrysotile         7           YES         NiagrIIs-071         216c         TSI, VENT DUCT, White         10/13/04         10/20/04         Chrysotile         7           NO         NiagrIIIs-072         Hanger         Surfacing, FIREPROOFING, White         10/13/04         10/20/04         No Asbestos Detected         7           NO         NiagrIIs-073         Hanger         Surfacing, FIREPROOFING, White         10/13/04         10/20/04         No Asbestos Detected         7           NO         NiagrIIs-073         Hanger         Surfacing, FIREPROOFING, White         10/13/04         10/20/04         No Asbestos Detected         7           NO         NiagrIIs-074         Hanger         Surfacing, FIREPROOFING, White         10/13/04         10/20/04         No Asbestos Detected         7   | 11                | YES        | NiagrfIls-069 | 216c        | TSI, VENT DUCT, White   | 10/13/04        | 10/20/04         | Chrysotile           | 75%                 |
| YES         Niagrflls-071         216c         TSI, VENT DUCT, White         10/13/04         10/20/04         Chrysotile         7           NO         Niagrflls-072         Hanger         Surfacing, FIREPRODFING, White         10/13/04         10/20/04         No Asbestos Detected         7           NO         Niagrflls-073         Hanger         Surfacing, FIREPRODFING, White         10/13/04         10/20/04         No Asbestos Detected         1           NO         Niagrflls-074         Hanger         Surfacing, FIREPRODFING, White         10/13/04         10/20/04         No Asbestos Detected         1           NO         Niagrflls-074         Hanger         Surfacing, FIREPRODFING, White         10/13/04         10/20/04         No Asbestos Detected         1  | 11                | YES        | NiagrfIls-070 | 216c        | TSI, VENT DUCT, White   | 10/13/04        | 10/20/04         | Chrysotile           | 75%                 |
| NO         NiagrIIs-072         Hanger         Surfacing, FIREPRODFING, White         10/13/04         10/20/04         No Asbestos Detected         No           NO         NiagrIIs-073         Hanger         Surfacing, FIREPRODFING, White         10/13/04         10/20/04         No Asbestos Detected         10/13/04         10/20/04         No Asbestos Detected         10/13/04         No Asbestos Detected         10/13/04         No Asbestos Detected         10/13/04  | 11                | YES        | NiagrfIIs-071 | 216c        | TSI, VENT DUCT, White   | 10/13/04        | 10/20/04         | Chrysotile           | %02                 |
| NO         Niagrflls-073         Hanger         Surfacing, FIREPROOFING, White         10/13/04         10/20/04         No Asbestos Detected           NO         Niagrflls-074         Hanger         Surfacing, FIREPROOFING, White         10/13/04         10/20/04         No Asbestos Detected  | 12                | Q          | NiagrfIls-072 | Hanger      | Surfacing, FIREPROOFING, White                                  | 10/13/04        | 10/20/04         | No Asbestos Detected | %0                  |
| NO Niagrflls-074 Hanger Surfacing, FIREPROOFING, White 10/13/04 10/20/04 No Asbestos Detected  | 12                | Q          | Niagrflls-073 | Hanger      | Surfacing, FIREPROOFING, White                                  | 10/13/04        | 10/20/04         | No Asbestos Detected | %0                  |
|  | 12                | Q          | NiagrfIIs-074 | Hanger      | Surfacing, FIREPROOFING, White                                  | 10/13/04        | 10/20/04         | No Asbestos Detected | %0                  |

Laboratory Test Results Table Page 1 of 2

LABORATORY TEST RESULTS TABLE

### US ARMY RESERVE CENTER - NIAGARA FALLS ASBESTOS BUILDING INSPECTION INDUSTRIAL LABORATORY TEST REPORT

Building No. 4

| Homo. ASB<br>Area No. Y/N | ASB | Sample Number | Room Number | Material Description:          | Date<br>Sampled | Date<br>Analyzed | Sample Results       | Percent<br>Asbestos |
|---------------------------|-----|---------------|-------------|--------------------------------|-----------------|------------------|----------------------|---------------------|
| 12                        | ON  | NiagrfIIs-075 | Hanger      | Surfacing, FIREPROOFING, White | 10/13/04        | 10/20/04         | No Asbestos Detected | %0                  |
| 12                        | NO  | NiagrfIIs-076 | Hanger      | Surfacing, FIREPROOFING, White | 10/13/04        | 10/20/04         | No Asbestos Detected | %0                  |
| 12                        | NO  | NiagrfIIs-077 | Hanger      | Surfacing, FIREPROOFING, White | 10/13/04        | 10/20/04         | No Asbestos Detected | %0                  |
| 12                        | NO  | NiagrfIIs-078 | Hanger      | Surfacing, FIREPROOFING, White | 10/13/04        | 10/20/04         | No Asbestos Detected | %0                  |
| 13                        | NO  | NiagrfIIs-079 | Hanger      | Surfacing, FIREPROOFING, Gray  | 10/13/04        | 10/20/04         | No Asbestos Detected | %0                  |
| 13                        | NO  | NiagrfIIs-080 | Hanger      | Surfacing, FIREPROOFING, Gray  | 10/13/04        | 10/20/04         | No Asbestos Detected | %0                  |
| 13                        | NO  | NiagrfIIs-081 | Hanger      | Surfacing, FIREPROOFING, Gray  | 10/13/04        | 10/20/04         | No Asbestos Detected | %0                  |
| 13                        | NO  | Niagrflls-082 | Hanger      | Surfacing, FIREPROOFING, Gray  | 10/13/04        | 10/20/04         | No Asbestos Detected | %0                  |
| 13                        | NO  | Niagrflls-083 | Hanger      | Surfacing, FIREPROOFING, Gray  | 10/13/04        | 10/20/04         | No Asbestos Detected | %0                  |
| 13                        | N   | Niagrflls-084 | Hanger      | Surfacing, FIREPROOFING, Gray  | 10/13/04        | 10/20/04         | No Asbestos Detected | %0                  |
| 13                        | Ŋ   | Niagrflls-085 | Hanger      | Surfacing, FIREPROOFING, Gray  | 10/13/04        | 10/20/04         | No Asbestos Detected | %0                  |

TEST METHOD: Method for the determination of Asbestos in bulk building materials (EPA/600/R-93/116) DETECTION LIMIT: 1%

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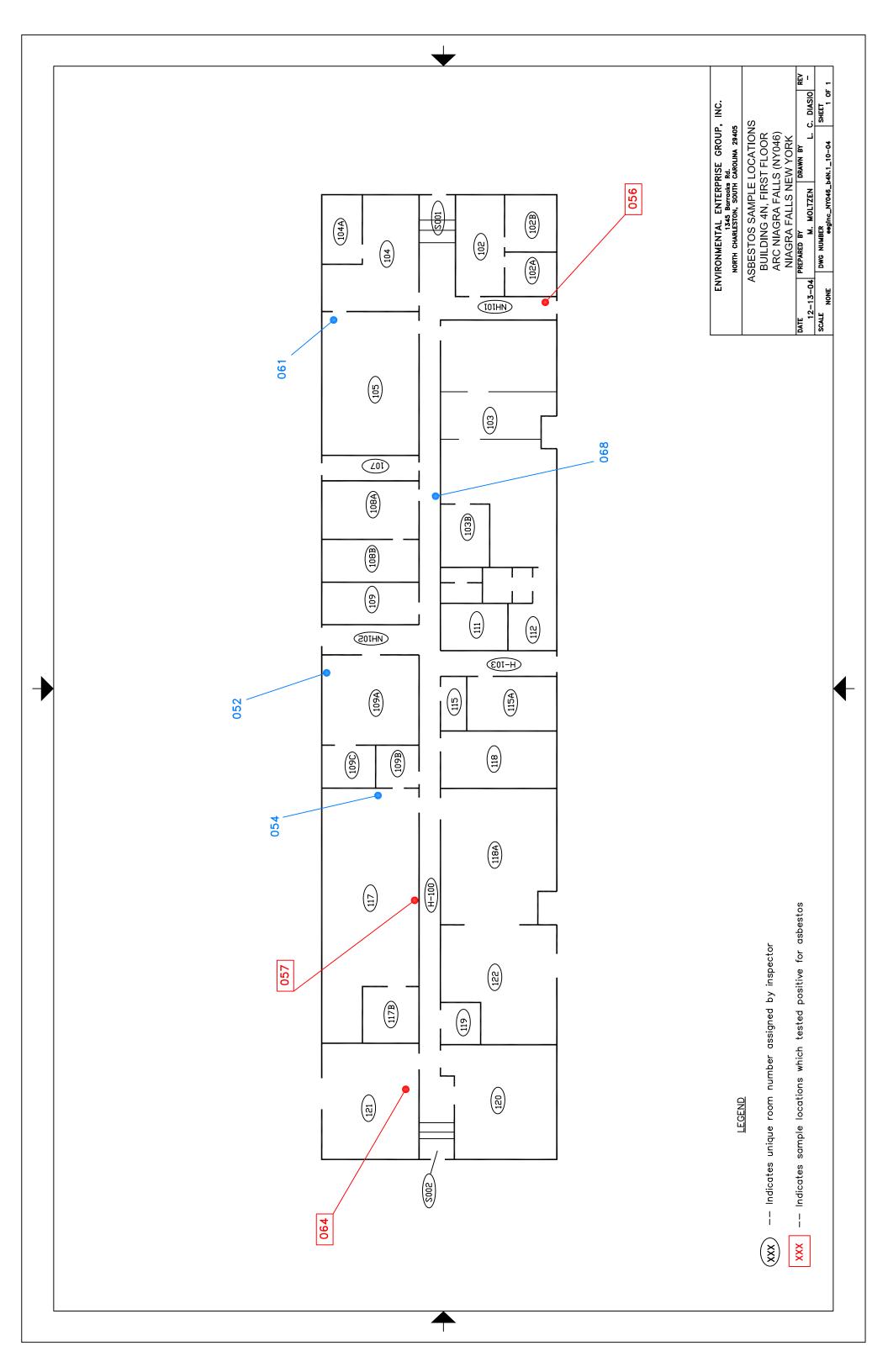
## US ARMY RESERVE CENTER - NIAGARA FALLS ASBESTOS BUILDING INSPECTION

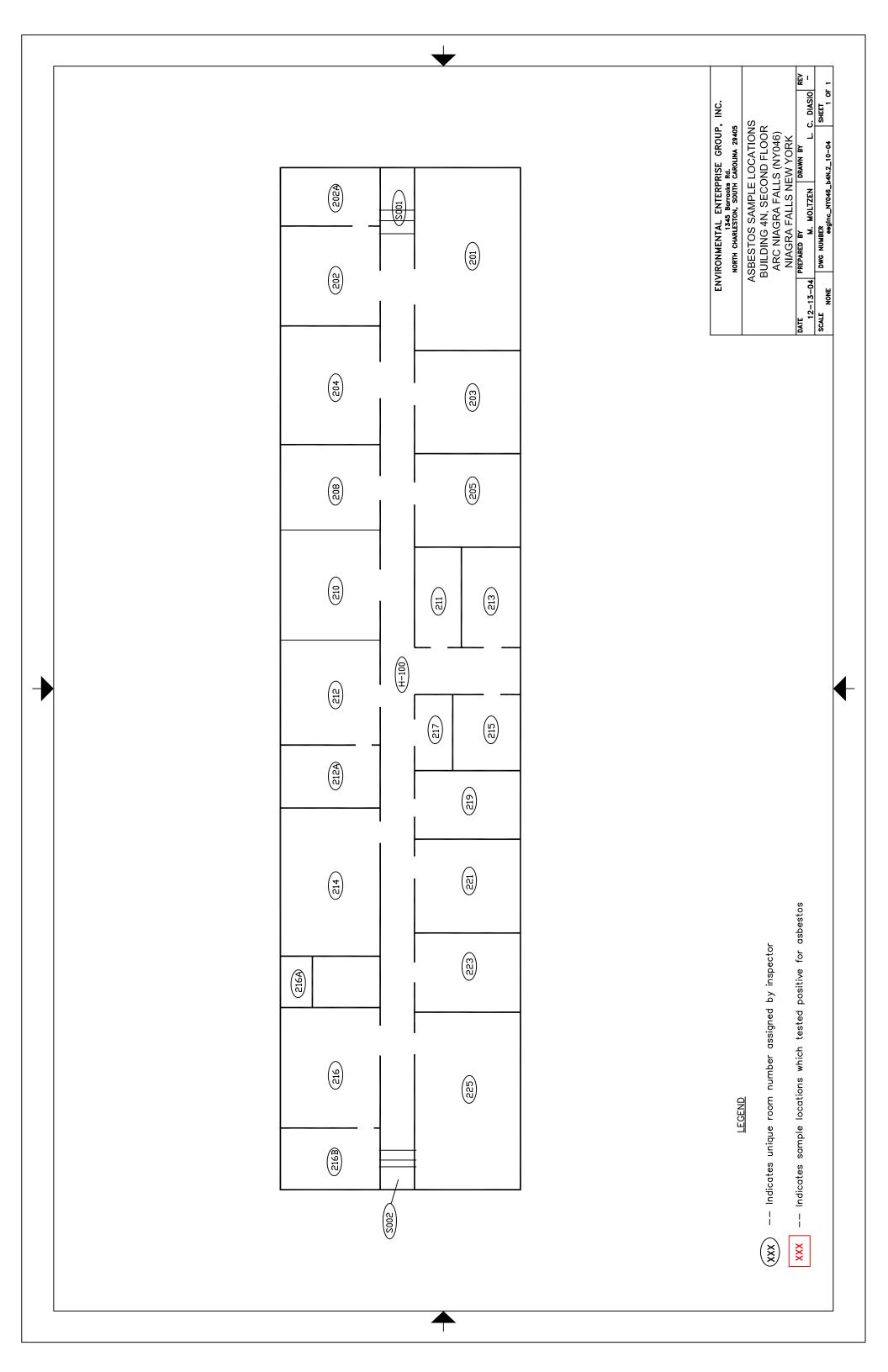
0&M

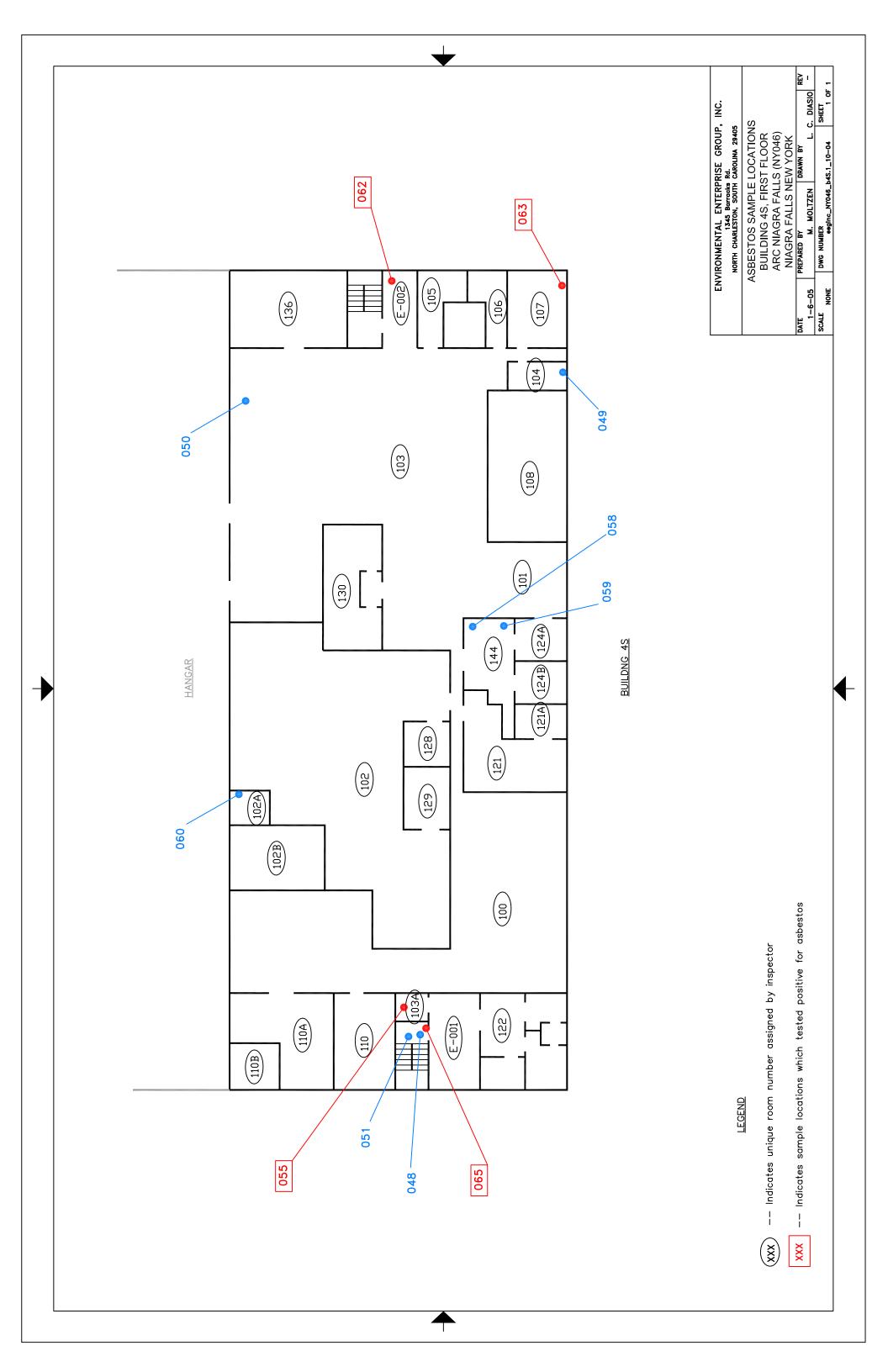
| 4         4         TSI,<br>Locations: Roon           4         5         Miscon           4         5         Miscon           Locations: Roon         N10           4         8         TSI,           Locations: Roon         N10           4         8         TSI,           Locations: Roon         Locations: Roon           1         9         Misc           4         11         TSI, | Material Description   | Quantity                     | Rat-<br>ing     | Fria-<br>bility          | Condition                                   | % D         | Recommended<br>Action |
|--|--|------------------------------|-----------------|--------------------------|---|-------------|-----------------------|
|  | TSI, PIPE, AIRCELL, Gray   | 5,924 LF                     | 35              | Mod                      | Damaged                                     | 0.18        | Remove/O&M            |
|  | Locations: Rooms 100, 101, 102, 102b, 103, 104, 105, 106, 107, 103a, 110, 110a, 110b, 121, 121a, 122, 122a, 122b, 122c, 122d, 124b, 124c, 124d, E-001, E-002, Hanger, N100, N103, N105, N105, N107, N109a, N111, N112, N117, N118a, N118b, N119, N120, N122, NH-100, N208, N210, N212, N214, N225, NH-101                    | 22b, 122c, 1<br>210, N212, N | 1, 1214, N      | 24a, 124t<br>1225, NH-   | o, 124c,124d, E-001, E<br>101               | :-002, Hang | jer, N100, N103,      |
|  | Misc, FLOOR TILE & MASTIC, 9" dark brown tile/mastic   | 20,538 SF                    | 24              | Mod                      | Not Damaged                                 | 0.00        | O&M                   |
| Locations:<br>11<br>11<br>8<br>8<br>9<br>11  | Locations: Rooms 103, 106, 107, 121, 124a, 124b, 144, 208, 210, 211, 214, 216b, 228, 228, 259, 250, 251, 252, 253, 255, 257, 258, 259, 260, 261, 262, 264, 281, 282, N103, N104, N104a, N105, N105, N105, N108a, N109b, N109b, N109c, N117, N118b, N201, N202a, N203, N204, N204a, N205, N208, N210, N212, N212a, N214, N216 | , 253, 255, 2<br>N205,, N208 | 257, 25<br>N210 | 8, 259, 26<br>I, N212, N | 30, 261, 262, 263, 264<br>1212a, N214, N216 | , 281, 282, | N103, N104, N104a,    |
| Locations:<br>9<br>Locations:<br>11  | TSI, PIPE, FIBROUS, White  | 3,390 LF                     | 26              | High                     | Not Damaged                                 | 0.00        | Remove/O&M            |
| 9<br>Locations:<br>11  | Locations: Rooms 103, 104, 107, E-002, N121  |                              |                 |                          |   | -           |                       |
| Locations: Roo<br>4 11 TSI,  | Misc, FLOOR TILE MASTIC ONLY, Black mastic under 12" light brown floor tile  | 6,945 SF                     | с               | Non                      | Not Damaged                                 | 0.00        | O&M                   |
|  | Locations: Rooms 100, 212, 216, 216a, 216c, 216c, 216c, 224, 230, 231, 232, 232a, 232b, 232c, 235, 236, 237, 238, 239, 240, 241, 242, 244, 246, 248, 247a, E-001   | 238, 239, 24                 | 0, 241,         | 242, 243                 | 1, 244, 246, 248, 247a,                     | E-001       |                       |
|  | 11 TSI, VENT DUCT, FIBROUS, White  | 198 SF                       | 33              | High                     | Damaged                                     | 8.00        | Remove/O&M            |
| Locations: Rooms 216c  | ms 216c  | -                            |                 |                          |   | -           |                       |
| 4 14 Misc  | 14 Misc, FIRE DOOR, Metal  | 308 SF                       | 10              | Non                      | Not Damaged                                 | 0.00        | O&M                   |
| Locations: Roo   | Locations: Rooms N115a, Hanger   |                              | -               |                          |   | -           |                       |
| 4 15 Misc  | Misc, FLOOR TILE & MASTIC, 9" green tile w/white streaks/mastic  | 84 SF                        | 11              | Non                      | Not Damaged                                 | 0.00        | O&M                   |
| Locations: Rooms N115  | ms N115  | -                            |                 |                          |   | -           |                       |

O&M Table Page 1 of 1

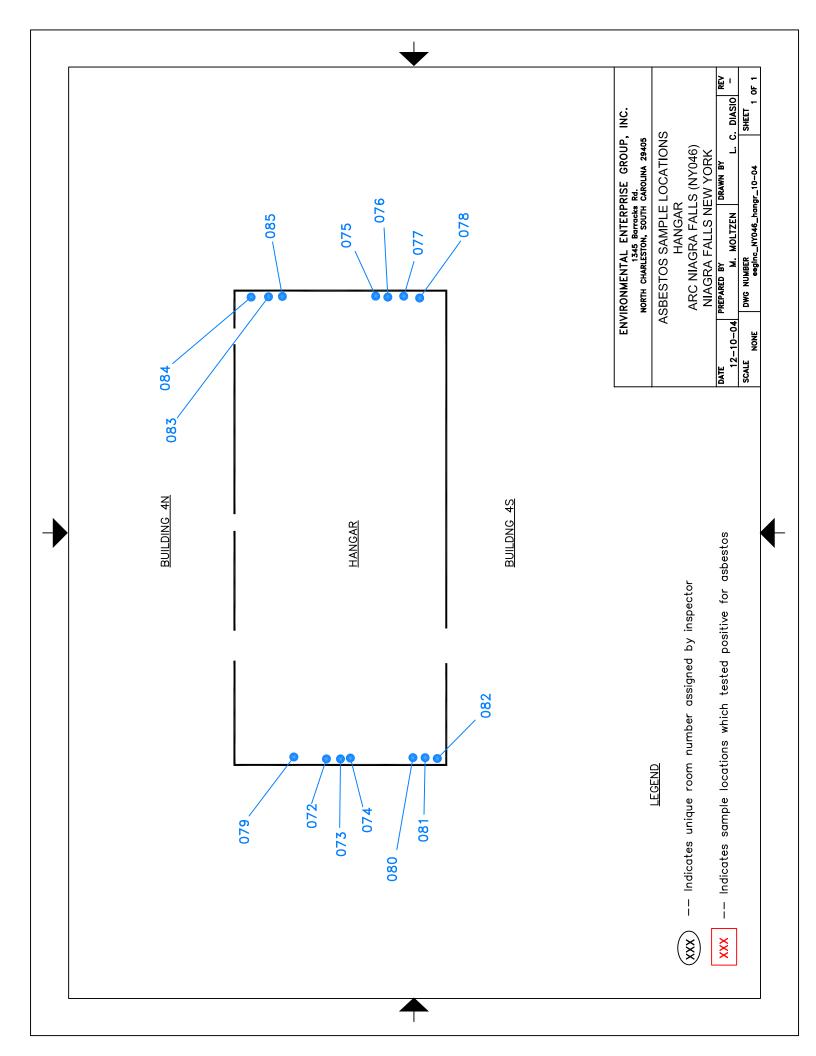
Homo No= Homogenous Area Number, ACM= Asbestos Containing Material, TSI= Thermal System Insulation, MISC= Miscellaneous, Quantity: SF= Square Footage, LF= Linear Feet, Friability: Mod= Moderate, Non= Non-Friable, Recommended Action: O&M= Operation and Maintenance, Refer to the Section III Operations and Maintenance Plan for standard O&M and Repair procedures.











### ENVIRONMENTAL HAZARDS SERVICES, L.L.C. 7469 WHITE PINE ROAD - RICHMOND, VA 23237

804-275-4788 FAX 804-275-4907

### **BULK ASBESTOS SAMPLE ANALYSIS SUMMARY**

| CLIENT: | Environmental Enterprise Group, Inc. | DATE OF RECEIPT:  | 19  OCT  2004            |
|---------|--------------------------------------|-------------------|--------------------------|
|         | 1345 Barracks Road                   | DATE OF ANALYSIS: | 20  OCT  2004            |
|         | North Charleston, SC 29405           | DATE OF REPORT:   | $21\ \mathrm{OCT}\ 2004$ |

| CLIENT NUMBER: | 42-4515 B   |
|----------------|---|
| EHS PROJECT #: | 10-04-2882  |
| PROJECT:       | US Army Reserve Center-Niagara Falls; Building #4 |

| EHS<br><u>SAMPLE #</u> | CLIENT SAMPLE #/<br>LABORATORY GROSS DESCRIPTION                        | % ASBESTOS  | OTHER MATERIALS  |
|------------------------|---|---|--|
| 01                     | ARC-NIAGRFLLS-048/<br>Dk. Brown/Black Adhes.                            | NAD   | 8% Cellulose<br>5% Fibrous Glass<br>7% Wollastonite<br>80% Non-Fibrous |
| 02                     | ARC-NIAGRFLLS-049/<br>Dk. Brown/Black Adhes.                            | NAD   | 8% Cellulose<br>5% Fibrous Glass<br>5% Wollastonite<br>82% Non-Fibrous |
| 03                     | ARC-NIAGRFLLS-050/<br>Pale Gray/Off-White Fib.; Green/<br>Beige Brittle | NAD   | 15% Cellulose<br>40% Fibrous Glass<br>45% Non-Fibrous                  |
| 04                     | ARC-NIAGRFLLS-051/<br>Pale Gray/Off-White Fib.; Beige/<br>Green Brittle | NAD   | 15% Cellulose<br>45% Fibrous Glass<br>40% Non-Fibrous                  |
| 05                     | ARC-NIAGRFLLS-052/<br>Pale Gray/Off-White Fib.; Beige/<br>Green Brittle | NAD   | 15% Cellulose<br>45% Fibrous Glass<br>40% Non-Fibrous                  |
| 06                     | ARC-NIAGRFLLS-053/<br>Pale Gray/Beige Fib.                              | NAD   | 25% Cellulose<br>75% Non-Fibrous                                       |
| 07                     | ARC-NIAGRFLLS-054/<br>Pale Gray Fib.; Coarse Powder                     | NAD   | 22% Cellulose<br>78% Non-Fibrous                                       |
| 08                     | ARC-NIAGRFLLS-055/<br>Gray/Beige/Tan Fib.; Pale Beige Brittle           | 8% Chrysotile ★<br>8% Total Asbestos<br>★Present in the various non-v<br>throughout sample. | 80% Cellulose<br>12% Non-Fibrous<br>voven fibrous layers               |
| 09                     | ARC-NIAGRFLLS-056/<br>Gray/Off-White/Tan Fib.; Beige/Green<br>Brittle   | 7% Chrysotile ★<br>7% Total Asbestos  | 80% Cellulose<br>13% Non-Fibrous                                       |
|                        | 2   | ★Present in the various non-v<br>throughout sample.   | woven fibrous layers   |

CLIENT NUMBER:42-4515 BEHS PROJECT #:10-04-2882PROJECT:US Army Reserve Center-Niagara Falls; Building #4

| EHS<br><u>SAMPLE #</u> | CLIENT SAMPLE #/<br>LABORATORY GROSS DESCRIPTION                                | % ASBESTOS  | OTHER MATERIALS   |
|------------------------|---|---|---|
| 10                     | ARC-NIAGRFLLS-057/<br>Tan/Off-White Fib.; Pale Gray Fib.<br>Beige/Green Brittle | 5% Chrysotile ★<br>5% Total Asbestos  | 80% Cellulose<br>15% Non-Fibrous                                    |
|                        | beige dieen bittae  | ★Present in the various non-<br>throughout sample.                                      | woven fibrous layers  |
| 11                     | ARC-NIAGRFLLS-058/<br>Tan Fib.; White Brittle                                   | NAD   | 35% Cellulose<br>45% Fibrous Glass<br>20% Non-Fibrous               |
| 12                     | ARC-NIAGRFLLS-059/<br>Tan Fib.; White Brittle                                   | NAD   | 35% Cellulose<br>45% Fibrous Glass<br>20% Non-Fibrous               |
| 13                     | ARC-NIAGRFLLS-060/<br>Pale Tan Fib.; White Brittle                              | NAD   | 40% Cellulose<br>40% Fibrous Glass<br>20% Non-Fibrous               |
| 14                     | ARC-NIAGRFLLS-061/<br>Pale Tan Fib.; White Brittle                              | NAD   | 40% Cellulose<br>40% Fibrous Glass<br>20% Non-Fibrous               |
| 15                     | ARC-NIAGRFLLS-062/<br>Off-White Fib.  | 15% Chrysotile<br>40% Amosite<br>55% Total Asbestos                                     | 5% Cellulose<br>40% Non-Fibrous                                     |
| 16                     | ARC-NIAGRFLLS-063/<br>Off-White Fib.; Tan/Green Brittle                         | 12% Chrysotile<br>35% Amosite<br>47% Total Asbestos ★<br>★Present in the off-white fib: | 18% Cellulose<br>35% Non-Fibrous<br>rous (main) layer.              |
| 17                     | ARC-NIAGRFLLS-064/<br>Off-White Fib.  | 15% Chrysotile<br>40% Amosite<br>55% Total Asbestos                                     | 5% Cellulose<br>40% Non-Fibrous                                     |
| 18A                    | ARC-NIAGRFLLS-065(a)-Tile/<br>Brown Gran.                                       | NAD   | 100% Non-Fibrous  |
| 18B                    | ARC-NIAGRFLLS-065(b)-Mastic/<br>Black Adhes.                                    | 5% Chrysotile<br>5% Total Asbestos  | 5% Cellulose<br>2% Fibrous Glass<br>88% Non-Fibrous                 |
| 19A                    | ARC-NIAGRFLLS-066(a)-Tile/<br>Brown Gran.                                       | NAD   | 100% Non-Fibrous  |
| 19B                    | ARC-NIAGRFLLS-066(b)-Mastic/<br>Pale Yellow/Black Adhes.                        | NAD   | 5% Cellulose<br>3% Fibrous Glass<br>4% Synthetic<br>88% Non-Fibrous |

CLIENT NUMBER:42-4515 BEHS PROJECT #:10-04-2882PROJECT:US Army Reserve Center-Niagara Falls; Building #4

| EHS<br>SAMPLE # | CLIENT SAMPLE #/<br>LABORATORY GROSS DESCRIPTION            | % ASBESTOS                           | OTHER MATERIALS   |
|-----------------|---|--------------------------------------|---|
| 20A             | ARC-NIAGRFLLS-067(a)-Tile/<br>Tan Gran.                     | NAD                                  | 100% Non-Fibrous  |
| 20B             | ARC-NIAGRFLLS-067(b)-Mastic/<br>Pale Yellow/Dk. Gray Adhes. | NAD                                  | 10% Cellulose<br>2% Fibrous Glass<br>3% Synthetic<br>1% Hair<br>84% Non-Fibrous |
| 21A             | ARC-NIAGRFLLS-068(a)-Tile/<br>Tan Gran.                     | NAD                                  | 100% Non-Fibrous  |
| 21B             | ARC-NIAGRFLLS-068(b)-Mastic/<br>Black Adhes.                | NAD                                  | 15% Cellulose<br>3% Fibrous Glass<br>82% Non-Fibrous                            |
| 22              | ARC-NIAGRFLLS-069/<br>Off-White Fib.; Pale Green Brittle    | 75% Chrysotile<br>75% Total Asbestos | 25% Non-Fibrous   |
| 23              | ARC-NIAGRFLLS-070/<br>Off-White Fib.; Pale Green Brittle    | 75% Chrysotile<br>75% Total Asbestos | 25% Non-Fibrous   |
| 24              | ARC-NIAGRFLLS-071/<br>Off-White Fib.; Pale Green Brittle    | 70% Chrysotile<br>70% Total Asbestos | 30% Non-Fibrous   |
| 25              | ARC-NIAGRFLLS-072/<br>White Fib.; Black/Gray Brittle        | NAD                                  | 80% Cellulose<br>20% Non-Fibrous  |
| 26              | ARC-NIAGRFLLS-073/<br>White Fib.; Black/Gray Brittle        | NAD                                  | 80% Cellulose<br>20% Non-Fibrous  |
| 27              | ARC-NIAGRFLLS-074/<br>White Fib.; Black/Gray Brittle        | NAD                                  | 80% Cellulose<br>20% Non-Fibrous  |
| 28              | ARC-NIAGRFLLS-075/<br>White Fib.; Black/Gray Brittle        | NAD                                  | 80% Cellulose<br>20% Non-Fibrous  |
| 29              | ARC-NIAGRFLLS-076/<br>White Fib.; Black/Gray Brittle        | NAD                                  | 80% Cellulose<br>20% Non-Fibrous  |
| 30              | ARC-NIAGRFLLS-077/<br>White Fib.; Black/Gray Brittle        | NAD                                  | 80% Cellulose<br>20% Non-Fibrous  |
| 31              | ARC-NIAGRFLLS-078/<br>White Fib.; Black/Gray Brittle        | NAD                                  | 80% Cellulose<br>20% Non-Fibrous  |
| 32              | ARC-NIAGRFLLS-079/<br>Lt. Gray Fib.                         | NAD                                  | 40% Cellulose<br>15% Fibrous Glass<br>45% Non-Fibrous                           |
|                 | PAGE 03   | of 05                                | 4070 INOII-I'IDI OUS  |

-- PAGE 03 of 05 --

CLIENT NUMBER:42-4515 BEHS PROJECT #:10-04-2882PROJECT:US Army Reserve Center-Niagara Falls; Building #4

| EHS<br><u>SAMPLE #</u> | CLIENT SAMPLE #/<br>LABORATORY GROSS DESCRIPTION | % ASBESTOS | OTHER MATERIALS                                       |
|------------------------|--|------------|---|
| 33                     | ARC-NIAGRFLLS-080/<br>Lt. Gray Fib.              | NAD        | 40% Cellulose<br>15% Fibrous Glass<br>45% Non-Fibrous |
| 34                     | ARC-NIAGRFLLS-081/<br>Lt. Gray Fib.              | NAD        | 40% Cellulose<br>15% Fibrous Glass<br>45% Non-Fibrous |
| 35                     | ARC-NIAGRFLLS-082/<br>Lt. Gray Fib.              | NAD        | 40% Cellulose<br>15% Fibrous Glass<br>45% Non-Fibrous |
| 36                     | ARC-NIAGRFLLS-083/<br>Lt. Gray Fib.              | NAD        | 40% Cellulose<br>15% Fibrous Glass<br>45% Non-Fibrous |
| 37                     | ARC-NIAGRFLLS-084/<br>Lt. Gray Fib.              | NAD        | 40% Cellulose<br>15% Fibrous Glass<br>45% Non-Fibrous |
| 38                     | ARC-NIAGRFLLS-085/<br>Lt. Gray Fib.              | NAD        | 40% Cellulose<br>15% Fibrous Glass<br>45% Non-Fibrous |
|                        |  |            |   |

| QC SAMPLE:       | M1-1998-4  |
|------------------|--|
| QC BLANK:        | SRM 1866 Fiberglass  |
| REPORTING LIMIT: | 1% Asbestos  |
| METHOD:          | Polarized Light Microscopy, EPA Method 600/R-93/116 $^{\star}$ |
| ANALYST:         | Mark Case  |

**Reviewed By Authorized Signatory:** 

Howard Varner, Laboratory Director Irma Faszewski, Quality Assurance Coordinator David Xu, MS, Senior Chemist Feng Jiang, MS, Senior Geologist Michael A. Mueller, Quality Assurance Manager

-- PAGE 04 of 05 --ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

| CLIENT NUMBER: | 42-4515 B   |
|----------------|---|
| EHS PROJECT #: | 10-04-2882  |
| PROJECT:       | US Army Reserve Center-Niagara Falls; Building #4 |

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Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), for enhanced detection capabilities) for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

\* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

| LEGEND | NAD = no asbestos detected     |
|--------|--------------------------------|
|        | SCF = suspected ceramic fibers |
|        |                                |

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-- PAGE 05 of 05 -- END OF REPORT --



Building 18 - AMSA 76/Motor Pool Building Niagara Falls Armed Forces Reserve Center - Niagara Falls, NY (NY046)

### BUILDING 18: AMSA 76 / Motorpool

### 1. DESCRIPTION:

Building 18 is a 9,720 square-foot building constructed in 1956 and expanded in the 1980s. It is a metal-framed and concrete block structure with metal and brick exterior. The following information was identified during the survey and from the analysis of the samples taken:

- Two homogeneous areas were identified during the initial survey.
- No homogeneous areas were assumed to contain asbestos.
- Two of the homogeneous areas were suspected to contain asbestos and sampled to confirm.
- No suspected homogeneous areas were confirmed to contain asbestos.
- Two of the suspected homogenous areas did not contain asbestos.

### 2. FINDINGS:

Two homogeneous areas with suspected ACM were identified. Four samples were collected and analyzed. Sample results are summarized in the Laboratory Test Results table in this section. Friable asbestos was found in No homogeneous areas.

**Confirmed ACM.** The following homogeneous areas sampled were confirmed to contain asbestos: **NONE** 

**Asbestos Free.** Asbestos was not detected in the following homogeneous areas:

- H-1: MISC, SHEETROCK/MUD, White
- H-2: MISC, GLAZING, WINDOW INTERIOR, Gray

**Assumed ACM.** The following homogeneous areas were assumed to contain asbestos: **NONE** 

### 3. OBSERVATIONS:

Building was renovated in 2000/2001 and all floor tile is non-suspect material. All piping in this building is fiberglass.

### 4. RECOMMENDED ABATEMENT ACTIONS: NONE

### 5. RECOMMENDATIONS FOR OPERATIONS AND MAINTENANCE: NONE

| US ARMY RESERVE CENTER - NIAGARA FALLS<br>ASBESTOS BUILDING INSPECTION |
|--|
| BUILDING SUMMARY TABLE   |

Building No. 18

| + 0 | H- ACM<br>No Y,N,A | Material Description                     | Quantity | Rating | Fria-<br>bility | Cond | <b>۵</b> % | Quantity         Rating         Fria-         Cond         %         Recommended         Abate           bility         D         Action         Cost         Cost | Abate<br>Cost | Comments |
|-----|--------------------|--|----------|--------|-----------------|------|------------|---|---------------|----------|
| 1_  | z                  | N Misc, SHEETROCK/MUD, White             | SF       | •      |                 |      |            |   |               |          |
| 1   |                    | Rooms 100, 114, various                  |          |        |                 |      |            |   |               |          |
| 2   | z                  | 2 N Misc, GLAZING, WINDOW INTERIOR, Gray | SF       | 0      |                 |      |            |   |               |          |
| 1   |                    | Rooms 100, 104, 108                      |          |        |                 |      |            |   |               |          |

Note: Asbestos abatement cost estimates are not included in this report.

Building Summary Table Page 1 of 1

H-No= Homogenous Area Number, ACM= Asbestos Containing Material: Y=Yes, N= No, A= Assumed, TSI= Thermal System Insulation, Misc= Miscellaneous, Quantity: SF= Square Footage, LF= Linear Feet, Friability: Mod= Moderate, Condition: PD= Potential for Damage, D= Damaged, SD= Significantly Damaged, Recommended Action: O&M= Operation and Maintenance

| ST        |      |
|-----------|------|
| Ш́н       | Щ    |
| RY        | AB   |
| D         | F    |
| <b>NA</b> | JLTS |
| ABO       | ESU  |
| 1         | 2    |

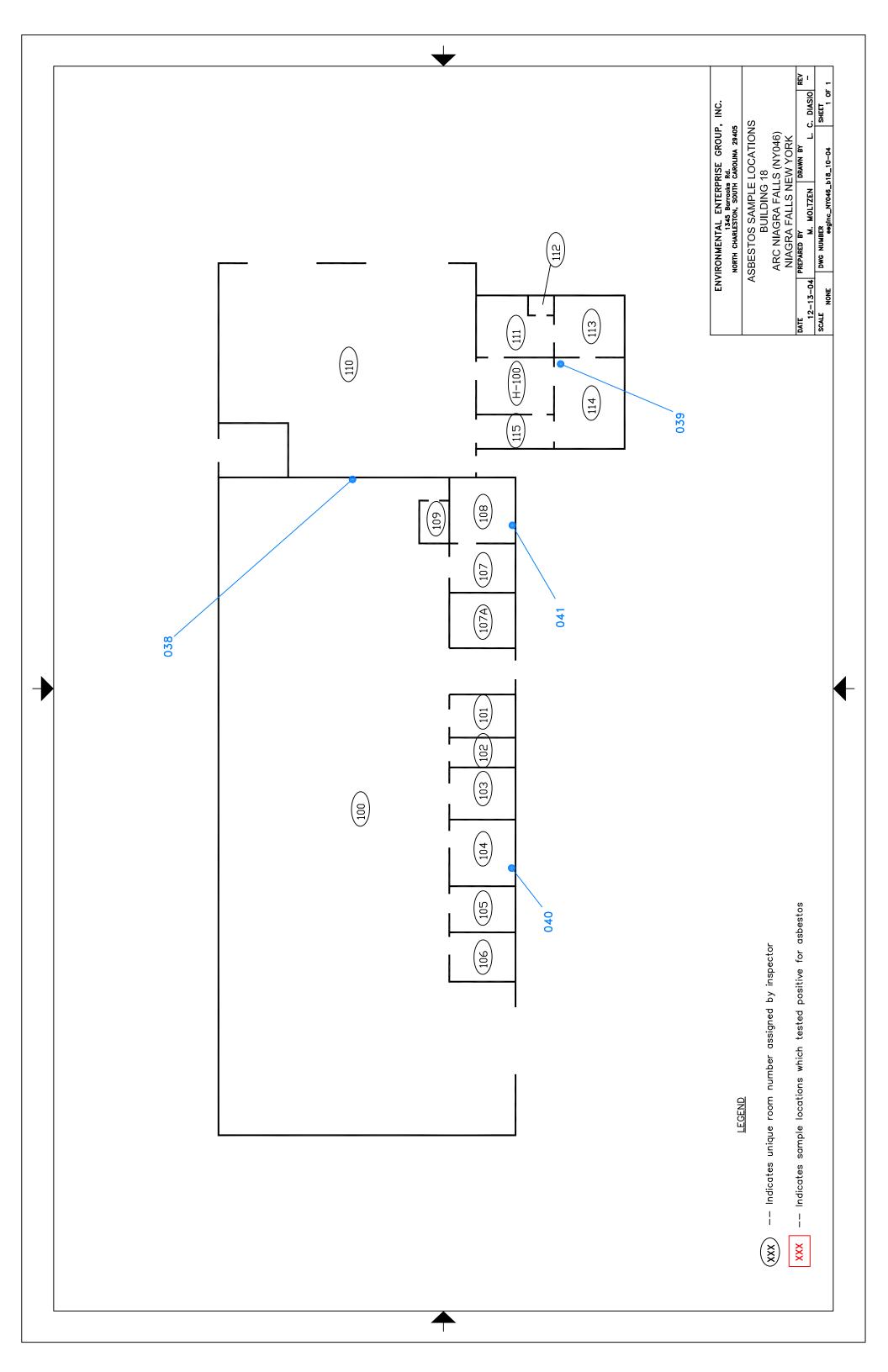
### US ARMY RESERVE CENTER - NIAGARA FALLS ASBESTOS BUILDING INSPECTION INDUSTRIAL LABORATORY TEST REPORT

### **Building No. 18**

| Homo. ASB<br>Area No. Y/N | ASB<br>Y/N | Iomo. ASB Sample Number Room Number<br>rea No. Y/N | Room Number | Material Description:      | Date<br>Sampled   | Date Date<br>Sampled Analyzed | Sample Results       | Percent<br>Asbestos |
|---------------------------|------------|--|-------------|----------------------------|-------------------|-------------------------------|----------------------|---------------------|
| -                         | NO         | NiagrfIls-038                                      | 100         | Misc, SHEETROCK/MUD, White | 10/14/04          | 10/14/04 10/21/04             | No Asbestos Detected | %0                  |
| -                         | NO         | Niagrflls-039                                      | 114         | Misc, SHEETROCK/MUD, White | 10/14/04          | 10/14/04 10/21/04             | No Asbestos Detected | %0                  |
| 2                         | NO         | NiagrfIIs-040                                      | 104         | Misc, GLAZING, Gray        | 10/14/04          | 10/14/04 10/21/04             | No Asbestos Detected | %0                  |
| 2                         | NO         | Niagrflls-041                                      | 108         | Misc, GLAZING, Gray        | 10/14/04 10/21/04 | 10/21/04                      | No Asbestos Detected | %0                  |

Laboratory Test Results Table Page 1 of 1

TEST METHOD: Method for the determination of Asbestos in bulk building materials (EPA/600/R-93/116) DETECTION LIMIT: 1%



7469 WHITE PINE ROAD - RICHMOND, VA 23237 804-275-4788 FAX 804-275-4907

### **BULK ASBESTOS SAMPLE ANALYSIS SUMMARY**

| CLIENT: | Environmental Enterprise Group, Inc. | DATE OF RECEIPT:  | 19  OCT  2004            |
|---------|--------------------------------------|-------------------|--------------------------|
|         | 1345 Barracks Road                   | DATE OF ANALYSIS: | $21\ \mathrm{OCT}\ 2004$ |
|         | North Charleston, SC 29405           | DATE OF REPORT:   | $21\ \mathrm{OCT}\ 2004$ |

### CLIENT NUMBER: 42-4515 B

**EHS PROJECT #:** 10-04-2869

**PROJECT:** US Army Reserve Center-Niagara Falls; Building #18

| EHS<br><u>SAMPLE #</u> | CLIENT SAMPLE #/<br>LABORATORY GROSS DESCRIPTION | % ASBESTOS                                  | OTHER MATERIALS                  |
|------------------------|--|---|----------------------------------|
| 01                     | ARC-Niagrflls-038/<br>White Powder; Brown Fib.   | NAD   | 20% Cellulose<br>80% Non-Fibrous |
| 02                     | ARC-Niagrflls-039/<br>White Powder; Brown Fib.   | NAD   | 20% Cellulose<br>80% Non-Fibrous |
| 03                     | ARC-Niagrflls-040/<br>Gray Powder                | Trace, <1% Chrysotile<br><1% Total Asbestos | 100% Non-Fibrous                 |
| 04                     | ARC-Niagrflls-041/<br>Gray Powder                | Trace, <1% Chrysotile<br><1% Total Asbestos | 100% Non-Fibrous                 |

| QC SAMPLE:       | M1-1999-1   |
|------------------|---|
| QC BLANK:        | SRM 1866 Fiberglass                                   |
| REPORTING LIMIT: | 1% Asbestos   |
| METHOD:          | Polarized Light Microscopy, EPA Method 600/R-93/116 * |
| ANALYST:         | Feng Jiang, M.S.                                      |

### **Reviewed By Authorized Signatory:**

Howard Varner, Laboratory Director Irma Faszewski, Quality Assurance Coordinator David Xu, MS, Senior Chemist Feng Jiang, MS, Senior Geologist Michael A. Mueller, Quality Assurance Manager

### -- PAGE 01 of 02 --ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

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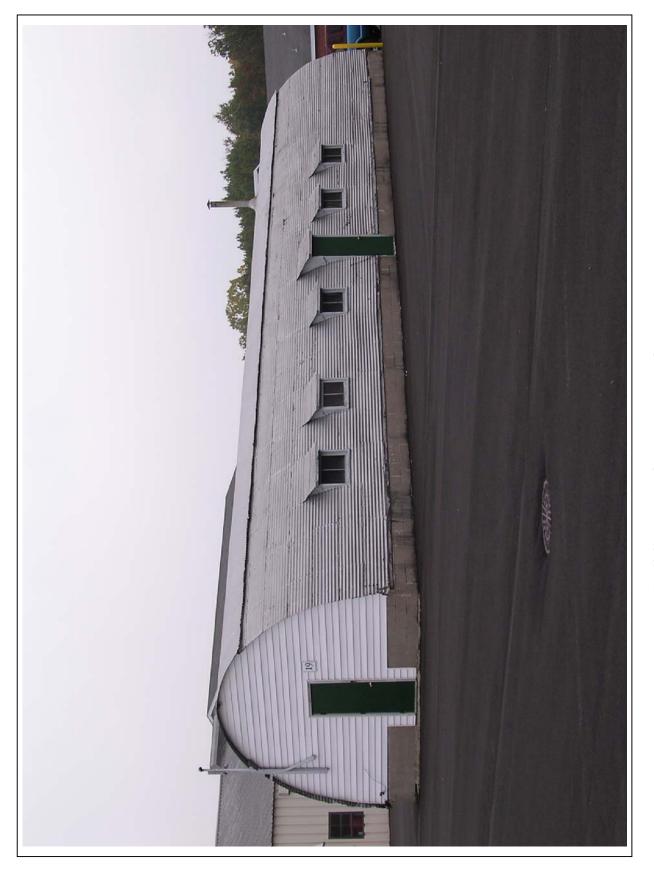
Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), for enhanced detection capabilities) for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

\* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

| LEGEND | NAD = no asbestos detected     |
|--------|--------------------------------|
|        | SCF = suspected ceramic fibers |
|        |                                |

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-- PAGE 02 of 02 -- END OF REPORT --



Niagara Falls Armed Forces Reserve Center - Niagara Falls, NY (NY046) Building 19 - Quanset Hut Storage

### **BUILDING 19: Storage Quonset Hut**

### 1. DESCRIPTION:

Building 19 is a 1,600 square-foot building constructed in 1956. It is a metal-framed quonset hut with metal roofing. The following information was identified during the survey and from the analysis of the samples taken:

- Two homogeneous areas were identified during the initial survey.
- No homogeneous areas were assumed to contain asbestos.
- Two of the homogeneous areas were suspected to contain asbestos and sampled to confirm.
- Two of the suspected homogeneous areas were confirmed to contain asbestos.

### 2. FINDINGS:

Two homogeneous areas with suspected ACM were identified. Four samples were collected and analyzed. Sample results are summarized in the Laboratory Test Results table in this section. Friable asbestos was found in No homogeneous areas.

**Confirmed ACM.** The following homogeneous areas sampled were confirmed to contain asbestos:

- H-1: MISC, SHEETROCK/MUD, White, was Non-friable and Damaged.
- H-2: MISC, ROOFING, MASTIC, Silver/black, was Non-friable and Not Damaged.

**Assumed ACM.** The following homogeneous areas were assumed to contain asbestos: **NONE** 

### 3. OBSERVATIONS:

No observations.

### 4. RECOMMENDED ABATEMENT ACTIONS:

Recommended actions for the following homogeneous areas:

- H-1: MISC, SHEETROCK/MUD, White: Remove/O&M
- H-2: MISC, ROOFING, Silver/black: **O&M**

### 5. RECOMMENDATIONS FOR OPERATIONS AND MAINTENANCE:

Operations and Maintenance (O&M) recommendations for confirmed and assumed homogeneous materials of ACM are found in the Operations & Maintenance Table of this report. The materials listed below should be maintained following the guidelines in the O&M Plan during regular maintenance and small-scale repair activities, until removed.

MISC SHEETROCK/MUD is Confirmed, Non-friable ACM.

H-1 (SHEETROCK/MUD, White) is located in Rooms 101, 102, 103, 104 and 105.

MISC ROOFING is Confirmed, Non-friable ACM.

H-2 (ROOFING, Silver/black) is located over entire roof.

| US ARMY RESERVE CENTE         |  |
|-------------------------------|--|
| <b>BUILDING SUMMARY TABLE</b> |  |

## RMY RESERVE CENTER - NIAGARA FALLS ASBESTOS BUILDING INSPECTION

Building No. 19

| ±₽ | H- ACM<br>No Y,N,A | Material Description                    | Quantity | Rating           | Fria- (<br>bility | Cond | <b>۵</b> % | Quantity Rating Fria- Cond % Recommended Abate<br>bility D Action Cost | Abate<br>Cost | Comments                        |
|----|--------------------|---|----------|------------------|-------------------|------|------------|--|---------------|---------------------------------|
| -  | 7                  | Y Misc, SHEETROCK/MUD, White            | 1,520 SF | 14               | Non               | ٥    | 5.0        | SF 14 Non D 5.0 Remove/O&M   | Sheetrock mud | Sheetrock mud contains asbestos |
|    |                    | Rooms 101, 102, 103, 104, 105           |          |                  |                   |      |            |  |               |                                 |
| 7  | 7                  | 2 Y Misc, ROOFING, MASTIC, Silver/black | 1,600 SF | SF 10 Non PD 0.0 | Non               | D    | 0.0        | O&M  |               |                                 |
|    |                    | Rooms Roof                              |          |                  |                   |      |            |  |               |                                 |

Note: Asbestos abatement cost estimates are not included in this report.

Building Summary Table Page 1 of 1

H-No= Homogenous Area Number, ACM= Asbestos Containing Material: Y=Yes, N= No, A= Assumed, TSI= Thermal System Insulation, Misc= Miscellaneous, Quantity: SF= Square Footage, LF= Linear Feet, Friability: Mod= Moderate, Condition: PD= Potential for Damage, D= Significantly Damaged, Recommended Action: O&M= Operation and Maintenance

LABORATORY TEST RESULTS TABLE

### US ARMY RESERVE CENTER - NIAGARA FALLS ASBESTOS BUILDING INSPECTION INDUSTRIAL LABORATORY TEST REPORT

**Building No. 19** 

| Homo. ASB<br>Area No. Y/N | ASB<br>Y/N | Homo. ASB Sample Number Room Number<br>rea No. Y/N | Room Number | Material Description:       | Date Date<br>Sampled Analyzed | Date<br>Analyzed  | Sample Results | Percent<br>Asbestos |
|---------------------------|------------|--|-------------|-----------------------------|-------------------------------|-------------------|----------------|---------------------|
| -                         | YES        | YES Niagrflls-042                                  | 102         | Misc, SHEETROCK/MUD, White  | 10/14/04                      | 10/14/04 10/21/04 | Chrysotile     | 2%                  |
| 1                         | YES        | NiagrfIls-043                                      | 103         | Misc, SHEETROCK/MUD, White  | 10/14/04                      | 10/14/04 10/21/04 | Chrysotile     | 2%                  |
| 2                         | YES        | YES Niagrflls-044                                  | Roof        | Misc, ROOFING, Silver/black | 10/14/04 10/21/04             | 10/21/04          | Chrysotile     | 4%                  |
| 2                         | YES        | YES Niagrills-045                                  | Roof        | Misc, ROOFING, Silver/black | 10/14/04                      | 10/14/04 10/21/04 | Chrysotile     | 4%                  |

Laboratory Test Results Table Page 1 of 1

TEST METHOD: Method for the determination of Asbestos in bulk building materials (EPA/600/R-93/116) DETECTION LIMIT: 1%

OPERATIONS AND MAINTENANCE TABLE

# US ARMY RESERVE CENTER - NIAGARA FALLS ASBESTOS BUILDING INSPECTION

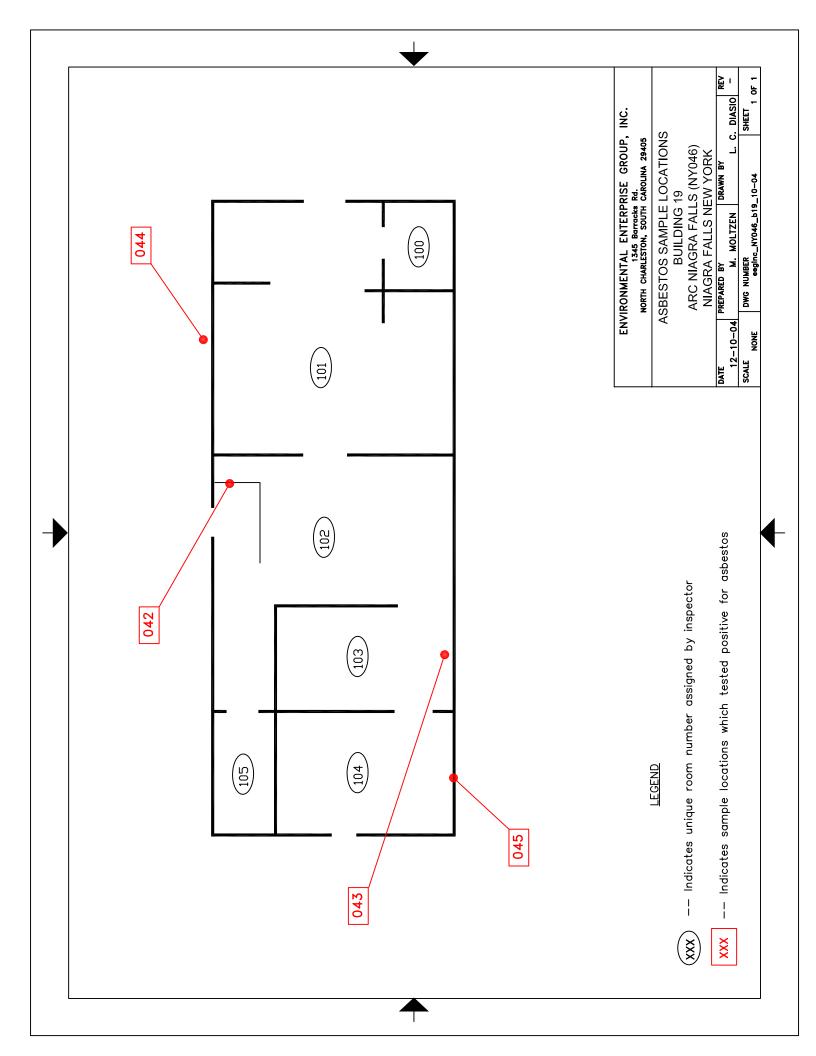
0&M

| Bldg.<br>No. | Bldg. Homo<br>No. No. | Material Description                     | Quantity Rat- Fria-<br>ing bility | Rat-<br>ing | Fria-<br>bility | Condition   | а<br>% | Recommended<br>Action |
|--------------|-----------------------|--|-----------------------------------|-------------|-----------------|-------------|--------|-----------------------|
| 19           |                       | 1 Misc, SHEETROCK/MUD, White             | 1,520 SF 14 Non                   | 14          | Non             | Damaged     | 5.00   | Remove/O&M            |
| Γ            | ations:               | -ocations: Rooms 101, 102, 103, 104, 105 |                                   |             |                 |             |        |                       |
| 19           | 2                     | 19 2 Misc, ROOFING, MASTIC, Silver/black | 1,600 SF 10 Non                   | 10          | Non             | Not Damaged | 0.00   | O&M                   |

Locations: Rooms Roof

O&M Table Page 1 of 1

Homo No= Homogenous Area Number, ACM= Asbestos Containing Material, TSI= Thermal System Insulation, MISC= Miscellaneous, Quantity: SF= Square Footage, LF= Linear Feet, Friability: Mod= Moderate, Non= Non-Friable, Recommended Action: O&M= Operation and Maintenance, Refer to the Section III Operations and Maintenance Plan for standard O&M and Repair procedures.



7469 WHITE PINE ROAD - RICHMOND, VA 23237 804-275-4788 FAX 804-275-4907

### **BULK ASBESTOS SAMPLE ANALYSIS SUMMARY**

| CLIENT: | Environmental Enterprise Group, Inc. | DATE OF RECEIPT:  | 19  OCT  2004            |
|---------|--------------------------------------|-------------------|--------------------------|
|         | 1345 Barracks Road                   | DATE OF ANALYSIS: | $21\ \mathrm{OCT}\ 2004$ |
|         | North Charleston, SC 29405           | DATE OF REPORT:   | $21\ \mathrm{OCT}\ 2004$ |

### CLIENT NUMBER:42-4515 BEHS PROJECT #:10-04-2870PROJECT:US Army Reserve Center-Niagra Falls; Building #19

| CLIENT SAMPLE #/<br>LABORATORY GROSS DESCRIPTION                 | % ASBESTOS   | OTHER MATERIALS  |
|--|--|--|
| ARC-NiagrFlls-042/<br>Tan Powder; White Brittle                  | Trace, <1% Chrysotile ★<br><1% Total Asbestos<br>★2% chrysotile present in the   | 3% Cellulose<br>97% Non-Fibrous<br>e beige joint compound.   |
| ARC-NiagrFlls-043/<br>White Brittle; Brown Fib.; Gray Powder     | Trace, <1% Chrysotile ★<br><1% Total Asbestos<br>★2% chrysotile present in the   | 10% Cellulose<br>90% Non-Fibrous<br>e joint compound.  |
| ARC-NiagrFlls-044/<br>Silver Brittle; Black Tar-Like; Tan Chalky | 4% Chrysotile<br>4% Total Asbestos   | 96% Non-Fibrous  |
| ARC-NiagrFlls-045/<br>Silver Brittle; Black Tar-Like; Tan Chalky | 4% Chrysotile<br>4% Total Asbestos   | 96% Non-Fibrous  |
|  | LABORATORY GROSS DESCRIPTION         ARC-NiagrFlls-042/         Tan Powder; White Brittle         ARC-NiagrFlls-043/         White Brittle; Brown Fib.; Gray Powder         ARC-NiagrFlls-044/         Silver Brittle; Black Tar-Like; Tan Chalky         ARC-NiagrFlls-045/ | LABORATORY GROSS DESCRIPTIONARC-NiagrFlls-042/<br>Tan Powder; White BrittleTrace, <1% Chrysotile ★<br><1% Total Asbestos<br>★2% chrysotile present in theARC-NiagrFlls-043/<br>White Brittle; Brown Fib.; Gray PowderTrace, <1% Chrysotile ★<br><1% Total Asbestos<br>★2% chrysotile present in theARC-NiagrFlls-044/<br>Silver Brittle; Black Tar-Like; Tan Chalky4% Chrysotile<br>4% Total AsbestosARC-NiagrFlls-045/4% Chrysotile |

| QC SAMPLE:       | M1-1998-2   |
|------------------|---|
| QC BLANK:        | SRM 1866 Fiberglass                                   |
| REPORTING LIMIT: | 1% Asbestos   |
| METHOD:          | Polarized Light Microscopy, EPA Method 600/R-93/116 * |
| ANALYST:         | Tabitha Jamison                                       |

### **Reviewed By Authorized Signatory:**

Howard Varner, Laboratory Director Irma Faszewski, Quality Assurance Coordinator David Xu, MS, Senior Chemist Feng Jiang, MS, Senior Geologist Michael A. Mueller, Quality Assurance Manager

### -- PAGE 01 of 02 --ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

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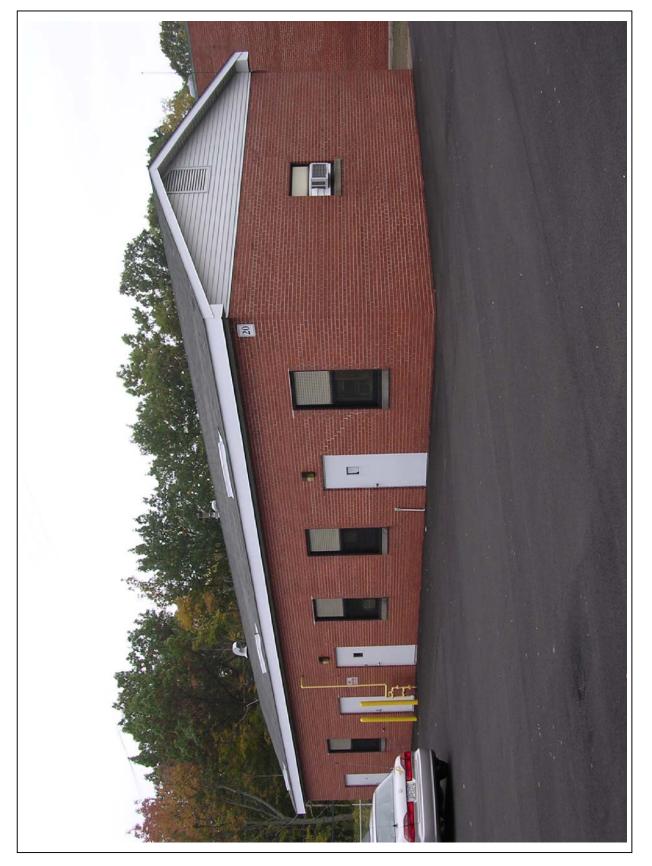
Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), for enhanced detection capabilities) for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

\* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

LEGEND NAD = no asbestos detected SCF = suspected ceramic fibers

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-- PAGE 02 of 02 -- END OF REPORT --



Niagara Falls Armed Forces Reserve Center - Niagara Falls, NY (NY046) Building 20 - Storage Building

### **BUILDING 20: Electronics Storage**

### 1. **DESCRIPTION**:

Building 20 is a 2,133 square-foot building constructed in 1956. It is a concrete block structure with brick exterior. **Inspection of this building revealed no suspected asbestos containing materials**. The following information was identified during the survey:

- No homogeneous areas were identified during the initial survey.
- No homogeneous areas were assumed to contain asbestos.

### 2. FINDINGS:

No homogeneous areas with suspected ACM were identified. No samples were collected or analyzed. Building was completely renovated in 2001 and sheetrock, floor tiles and roofing are not suspect material

- 3. OBSERVATIONS: NO SUSPECT MATERIALS FOUND
- 4. RECOMMENDED ABATEMENT ACTIONS: NONE
- 5. RECOMMENDATIONS FOR OPERATIONS AND MAINTENANCE: NONE



Niagara Falls Armed Forces Reserve Center - Niagara Falls, NY (NY046) Building 21 – 277<sup>th</sup> Quartermaster Co. Building

### BUILDING 21: 277th Quartermasters HQ

### 1. **DESCRIPTION**:

Building 21 is a 13,055 square-foot building constructed in 1956. It is a concrete block structure with brick exterior and shingled roofing. The following information was identified during the survey and from the analysis of the samples taken:

- Eight homogeneous areas were identified during the initial survey.
- One homogeneous area was assumed to contain asbestos.
- Seven of the homogeneous areas were suspected to contain asbestos and sampled to confirm.
- Two of the suspected homogeneous areas were confirmed to contain asbestos.
- Five of the suspected homogenous areas did not contain asbestos.

### 2. FINDINGS:

Seven homogeneous areas with suspected ACM were identified. Fourteen samples were collected and analyzed. Sample results are summarized in the Laboratory Test Results table in this section. Friable asbestos was found in No homogeneous areas.

**Confirmed ACM.** The following homogeneous areas sampled were confirmed to contain asbestos:

- H-6: MISC, FLOOR TILE, 12" green tile w/black & white streaks, was Non-friable and Not Damaged.
- H-7: MISC, COVING MASTIC, Dark brown/black, was Non-friable and Not Damaged.

**Assumed ACM.** The following homogeneous areas were assumed to contain asbestos:

• H-3: MISC, FLOOR TILE & MASTIC, 9" brown tile w/red & white streaks/mastic, was Non-friable and Not Damaged.

**Asbestos Free.** Asbestos was not detected in the following homogeneous areas:

- H-1: MISC, FLOOR TILE & MASTIC, 12" light brown tile w/black & white marbling/mastic
- H-2: MISC, ACOUSTICAL TILE, White smooth w/pinholes
- H-4: MISC, FLOOR TILE & MASTIC, 12" tan tile w/brown & white marbling/mastic
- H-5: MISC, SHEETROCK/MUD, White
- H-8: MISC, ACOUSTICAL TILE MASTIC, Brown

### 3. OBSERVATIONS:

Coving mastic (H-7) may need additional analysis prior to disturbing. Nonsuspect roofing was installed in 1993.

### 4. **RECOMMENDED ABATEMENT ACTIONS:**

Recommended actions for the following homogeneous areas:

- H-3: MISC, FLOOR TILE & MASTIC, 9" brown tile w/red & white streaks/mastic: O&M
- H-6: MISC, FLOOR TILE, 12" green tile w/black & white streaks: O&M
- H-7: MISC, COVING MASTIC, Dark brown/black: O&M

### 5. RECOMMENDATIONS FOR OPERATIONS AND MAINTENANCE:

Operations and Maintenance (O&M) recommendations for confirmed and assumed homogeneous materials of ACM are found in the Operations & Maintenance Table of this report. The materials listed below should be maintained following the guidelines in the O&M Plan during regular maintenance and small-scale repair activities, until removed.

MISC FLOOR TILE & MASTIC is Assumed, Non-friable ACM.

H-3 (FLOOR TILE & MASTIC, 9" brown tile w/red & white streaks/mastic) is located in Room 127.

MISC FLOOR TILE is Confirmed, Non-friable ACM.

H-6 (FLOOR TILE, 12" green tile w/black & white streaks) is located in Room 108.

MISC COVING MASTIC is Confirmed, Non-friable ACM.

H-7 (COVING MASTIC, Dark brown/black) is located in Rooms 100, 101, 103, L-2, 104, 104a, 108, 109b, 112, 115, 117, 118, 120, Entry E-001 and Halls H-100 & H-101.

| ш      | SUIL         | BUILDING SUMMARY TABLE US ARMY RESERVE CENTER - NIAGARA FALLS<br>ASBESTOS BUILDING INSPECTION | RESE<br>BESTO      | RVE<br>S B | CEN                  |      | SNI - S | AGARA<br>PECTIOI      | FALL<br>N     | S Building No. 21                               |   |
|--------|--------------|---|--------------------|------------|----------------------|------|---------|-----------------------|---------------|---|---|
| ±₽     | ACM<br>Y,N,A | n Material Description  | Quantity Rating    | Rating     | Fria- Cond<br>bility |      | % Rec   | Recommended<br>Action | Abate<br>Cost | Comments  |   |
| ~      | z            | Misc, FLOOR TILE & MASTIC, 12" light brown tile w/black & white marb/mastic                   | SF                 | 0          |                      |      |         |                       |               |   | 1 |
|        |              | Rooms 115, 118, various   |                    |            |                      | -    | -       | -                     |               |   |   |
| 7      | z            | Misc, ACOUSTICAL TILE, White smooth w/pinholes  | SF                 | 0          |                      |      |         |                       |               | Located above ceiling tiles.                    |   |
|        |              | Rooms H-100, L-1  |                    |            |                      | _    | _       |                       |               |   |   |
| n      | ۷            | Misc, FLOOR TILE & MASTIC, 9" brown tile w/red & white streaks/mastic                         | 210 SF             | 6          | Non                  | PD 0 | 0.0     | O&M                   |               |   |   |
| ]      |              | Rooms 127   |                    |            |                      | _    |         | -                     |               |   |   |
| 4      | z            | Misc, FLOOR TILE & MASTIC, 12" tan tile w/brown & white marbling/mastic                       | SF                 | 0          |                      |      |         |                       |               |   |   |
|        |              | Rooms 104, 104a, 117  |                    |            |                      |      |         |                       |               |   |   |
| 2<br>2 | z            | Misc, SHEETROCK/MUD, White  | SF                 | 0          |                      |      |         |                       |               |   |   |
|        |              | Rooms 109a, 117   |                    |            |                      | _    | _       |                       |               |   |   |
| 9      | ≻            | Misc, FLOOR TILE, 12" green tile w/black & white streaks                                      | 415 SF             | 10         | Non                  | PD 0 | 0.0     | O&M                   |               | Tile contains asbestos, mastic does not.        |   |
|        |              | Rooms 108   |                    |            |                      |      |         |                       |               |   |   |
| 2      | ≻            | Misc, COVING MASTIC, Dark brown/black   | 1,177 LF           | 3          | Non                  | PD 0 | 0.0     | O&M                   |               | See "Observations" section of Building Summary. |   |
|        |              | Rooms 100, 101, 103, L-2, 104, 104a, 108, 109b, 112, 115, 117, 118, 120, E-001, H-            | -001, H-100, H-101 | -101       |                      |      | _       |                       |               |   |   |
| œ      | z            | Misc, ACOUSTICAL TILE MASTIC, Brown   | SF                 | 0          |                      |      |         |                       |               | Located under acoustical tiles.                 |   |
|        |              | Rooms H-100, L-1, various   |                    |            |                      | -    | -       |                       |               |   |   |
|        |              |   |                    |            |                      |      |         |                       |               |   | 1 |

Note: Asbestos abatement cost estimates are not included in this report.

H-No= Homogenous Area Number, ACM= Asbestos Containing Material: Y=Yes, N= No, A= Assumed, TSI= Thermal System Insulation, Misc= Miscellaneous, Quantity: SF= Square Footage, LF= Linear Feet, Friability: Mod= Moderate, Condition: PD= Potential for Damage, D= Damaged, SD= Significantly Damaged, Recommended Action: O&M= Operation and Maintenance

Building Summary Table Page 1 of 1

| ⊢   |        |
|-----|--------|
| ES. |        |
| F   | Ш      |
| R   | AB     |
| TO  | F      |
| ۷   | TS.    |
| 0R  | Ы      |
| AB  | В<br>Ш |
| ì   | ~      |

### US ARMY RESERVE CENTER - NIAGARA FALLS ASBESTOS BUILDING INSPECTION INDUSTRIAL LABORATORY TEST REPORT

### Building No. 21

| 118         Misc, FLOOR TILE &           115         Misc, FLOOR TILE &           115         Misc, FLOOR TILE &           L-1         Misc, ACOUSTICAL           H-100         Misc, ACOUSTICAL           104         Misc, FLOOR TILE &           117         Misc, FLOOR TILE &           117         Misc, FLOOR TILE &           117         Misc, FLOOR TILE &           109a         Misc, FLOOR TILE &           1017         Misc, FLOOR TILE &           109a         Misc, FLOOR TILE &           1017         Misc, FLOOR TILE &           108         Misc, FLOOR TILE /           108         Misc, FLOOR TILE /           108         Misc, FLOOR TILE /           112         Misc, FLOOR TILE /           112         Misc, COVING MAST           112         Misc, COVING MAST           L-1         Misc, ACOUSTICAL 1  | Sample Number Roon | Room Number | Material Description:   | Date<br>Sampled | Date<br>Analyzed | Sample Results       | Percent<br>Asbestos |
|--|--------------------|-------------|---|-----------------|------------------|----------------------|---------------------|
| NO         Niagrfils-002         115         Misc, FLOOR TILE &           NO         Niagrfils-003         L-1         Misc, ACOUSTICAL           NO         Niagrfils-003         L-1         Misc, ACOUSTICAL           NO         Niagrfils-005         H-100         Misc, ACOUSTICAL           NO         Niagrfils-005         104         Misc, ACOUSTICAL           NO         Niagrfils-006         117         Misc, FLOOR TILE &           NO         Niagrfils-006         117         Misc, FLOOR TILE &           NO         Niagrfils-006         117         Misc, FLOOR TILE &           NO         Niagrfils-007         109a         Misc, FLOOR TILE &           YES         Niagrfils-009         108         Misc, FLOOR TILE , 1           YES         Niagrfils-010         108         Misc, COVING MAST           NO         Niagrfils-012         112         Misc, COVING MAST           NO         Niagrfils-013         L-1         Misc, ACOUSTCAL | grfils-001         |             | /isc, FLOOR TILE & MASTIC, 12" light brown tile w/black & white | 10/14/04        | 10/20/04         | No Asbestos Detected | %0                  |
| NO         Niagrfils-003         L-1         Misc, ACOUSTICAL           NO         Niagrfils-004         H-100         Misc, ACOUSTICAL           NO         Niagrfils-005         104         Misc, FLOOR TILE &           NO         Niagrfils-005         104         Misc, FLOOR TILE &           NO         Niagrfils-005         117         Misc, FLOOR TILE &           NO         Niagrfils-006         117         Misc, FLOOR TILE &           NO         Niagrfils-008         117         Misc, FLOOR TILE &           NO         Niagrfils-008         117         Misc, SHEETROCK/M           YES         Niagrfils-010         108         Misc, SHEETROCK/M           YES         Niagrfils-010         108         Misc, CO/NIG MAST           YES         Niagrfils-011         H-100         Misc, COVING MAST           NO         Niagrfils-012         112         Misc, COVING MAST           NO         Niagrfils-013         L-1         Misc, ACOUSTCAL   | grflls-002         |             | Aisc, FLOOR TILE & MASTIC, 12" light brown tile w/black & white | 10/14/04        | 10/20/04         | No Asbestos Detected | %0                  |
| NO         Niagrfils-004         H-100         Misc, FLOOR TILE &<br>Misc, FLOOR TILE ,<br>Misc, SHEETROCK/M<br>Misc, SHEETROCK/M<br>Misc, SHEETROCK/M<br>Misc, FLOOR TILE ,<br>Misc, COVING MAST           NO         Niagrfils-010         108         Misc, FLOOR TILE ,<br>Misc, COVING MAST           NO         Niagrfils-011         H-100         Misc, COVING MAST           NO         Niagrfils-013         L-1         Misc, ACOUSTICAL 7  | grflls-003         |             | isc, ACOUSTICAL TILE, White smooth w/pinholes                   | 10/14/04        | 10/20/04         | No Asbestos Detected | %0                  |
| NO         Niagrfils-005         104         Misc, FLOOR TILE &           NO         Niagrfils-006         117         Misc, FLOOR TILE &           NO         Niagrfils-006         117         Misc, SHEETROCK/I           NO         Niagrfils-007         109a         Misc, SHEETROCK/I           NO         Niagrfils-009         108         Misc, FLOOR TILE /           YES         Niagrfils-010         108         Misc, FLOOR TILE /           YES         Niagrfils-011         H-100         Misc, COVING MAST           NO         Niagrfils-012         L-1         Misc, ACOUSTICAL           NO         Niagrfils-013         L-1         Misc, ACOUSTICAL  |                    |             | Aisc, ACOUSTICAL TILE, White smooth w/pinholes                  | 10/14/04        | 10/20/04         | No Asbestos Detected | %0                  |
| NO         Niagrflls-006         117         Misc, FLOOR TILE &           NO         Niagrflls-007         109a         Misc, SHEETROCK/I           NO         Niagrflls-007         109a         Misc, SHEETROCK/I           NO         Niagrflls-008         117         Misc, SHEETROCK/I           YES         Niagrflls-010         108         Misc, FLOOR TILE, 1           NO         Niagrflls-011         H-100         Misc, COVING MAST           NO         Niagrflls-012         L-1         Misc, ACOUSTICAL           NO         Niagrflls-013         L-1         Misc, ACOUSTICAL  | grflls-005         |             | Aisc, FLOOR TILE & MASTIC, 12" tan tile w/brown & white marblin | 10/14/04        | 10/20/04         | No Asbestos Detected | %0                  |
| NO         Niagrflls-007         109a           NO         Niagrflls-008         117           YES         Niagrflls-009         108           YES         Niagrflls-010         108           YES         Niagrflls-010         108           YES         Niagrflls-011         1-100           YES         Niagrflls-012         112           NO         Niagrflls-013         L-1           NO         Niagrflls-013         L-1   | grflls-006         |             | MASTIC, 12" tan tile w/brown & white marblin                    | 10/14/04        | 10/20/04         | No Asbestos Detected | %0                  |
| NO         Niagrflls-008         117           YES         Niagrflls-009         108           YES         Niagrflls-010         108           YES         Niagrflls-010         108           YES         Niagrflls-011         H-100           NO         Niagrflls-012         112           NO         Niagrflls-013         L-1           NO         Niadrflls-013         L-1  |                    |             | Aisc, SHEETROCK/MUD, White                                      | 10/14/04        | 10/20/04         | No Asbestos Detected | %0                  |
| YES         Niagrflls-009         108           YES         Niagrflls-010         108           YES         Niagrflls-010         108           YES         Niagrflls-011         H-100           NO         Niagrflls-012         112           NO         Niagrflls-013         L-1           NO         Niagrflls-013         H-100   | grflls-008         |             | Aisc, SHEETROCK/MUD, White                                      | 10/14/04        | 10/20/04         | No Asbestos Detected | %0                  |
| YES         Niagrflls-010         108           YES         Niagrflls-011         H-100           NO         Niagrflls-012         112           NO         Niagrflls-013         L-1           NO         Niadrflls-014         H-100   | grflls-009         |             | Misc, FLOOR TILE, 12" green tile w/black & white streaks        | 10/14/04        | 10/20/04         | Chrysotile           | 4%                  |
| YES         Niagrflls-011         H-100         Misc, COVING MAST           NO         Niagrflls-012         112         Misc, COVING MAST           NO         Niagrflls-013         L-1         Misc, ACOUSTICAL           NO         Niagrflls-014         H-100         Misc, ACOUSTICAL   | grflls-010         |             | Misc, FLOOR TILE, 12" green tile w/black & white streaks        | 10/14/04        | 10/20/04         | Chrysotile           | 4%                  |
| NO         Niagrills-012         112         Misc, COVING MAST           NO         Niagrills-013         L-1         Misc, ACOUSTICAL           NO         Niagrills-014         H-100         Misc ACOUSTICAL  |                    | _           | fisc, COVING MASTIC, Dark brown/black                           | 10/14/04        | 10/20/04         | Chrysotile           | 2%                  |
| NO         Niagrfils-013         L-1         Misc, ACOUSTICAL           NO         Niagrfils-014         H-100         Misc ACOUSTICAL   | grflls-012         |             | fisc, COVING MASTIC, Dark brown/black                           | 10/14/04        | 10/20/04         | No Asbestos Detected | %0                  |
| NO Niaorfils-014 H-100 Misc ACOUSTICAL   |                    |             | Aisc, ACOUSTICAL TILE MASTIC, Brown                             | 10/14/04        | 10/20/04         | No Asbestos Detected | %0                  |
|  | Niagrflls-014 F    | H-100 N     | Misc, ACOUSTICAL TILE MASTIC, Brown                             | 10/14/04        | 10/20/04         | No Asbestos Detected | %0                  |

TEST METHOD: Method for the determination of Asbestos in bulk building materials (EPA/600/R-93/116) DETECTION LIMIT: 1%

OPERATIONS AND MAINTENANCE TABLE

# US ARMY RESERVE CENTER - NIAGARA FALLS ASBESTOS BUILDING INSPECTION

O&M

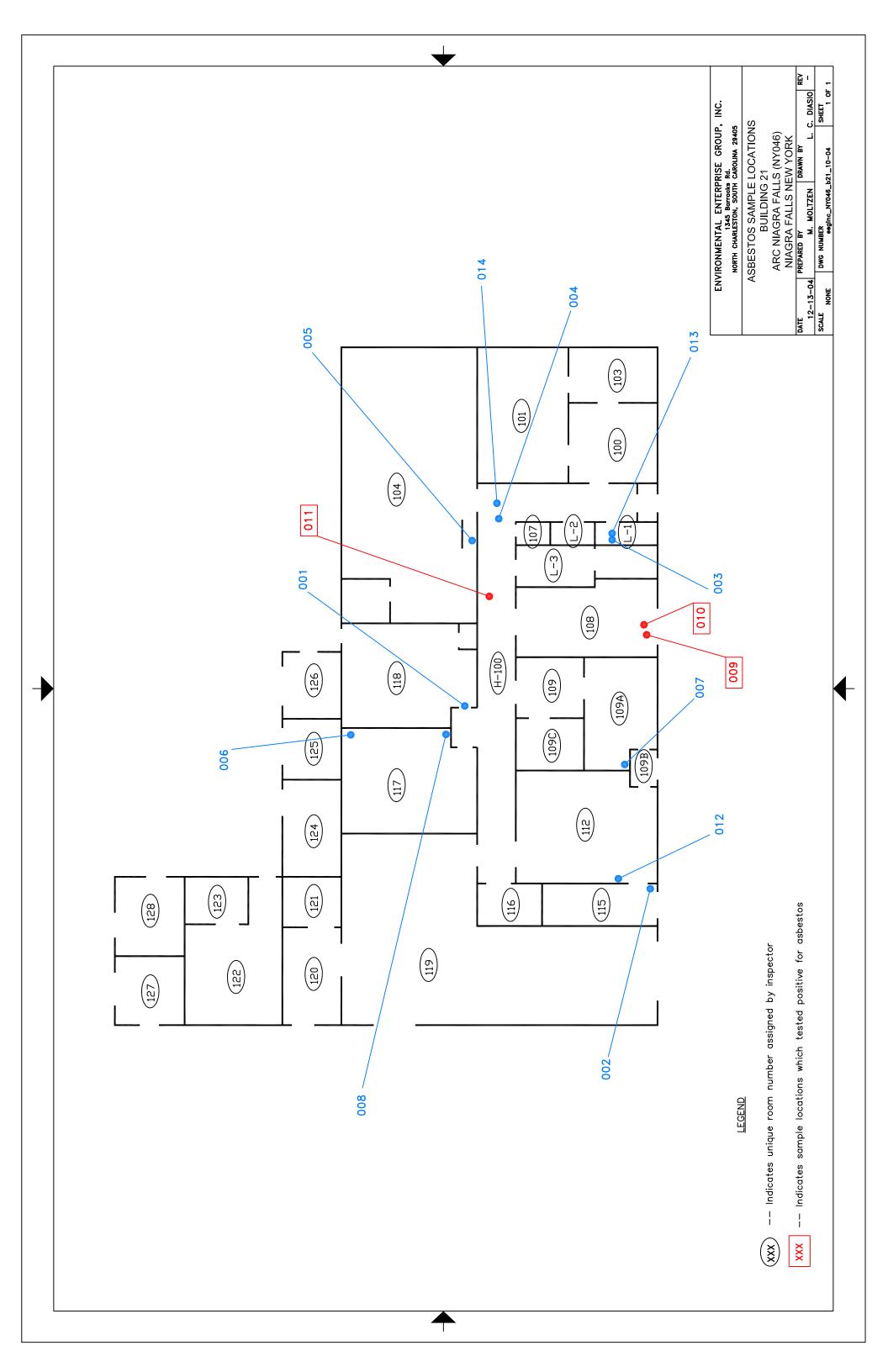
Г

| Bldg.<br>No. | 3ldg. Homo<br>No. No. | Material Description   | Quantity Rat-<br>ing | Rat-<br>ing | Fria-<br>bility | Condition        | ۵%   | Recommended<br>Action |   |
|--------------|-----------------------|--|----------------------|-------------|-----------------|------------------|------|-----------------------|---|
| 21           | ю                     | 21 3 Misc, FLOOR TILE & MASTIC, 9" brown tile w/red & white streaks/mastic | 210 SF               | 6           | Non             | Not Damaged      | 0.00 | O&M                   |   |
| Lo           | cations:              | Locations: Rooms 127   |                      |             |                 |                  | _    |                       |   |
| 21           | 9                     | 21 6 Misc, FLOOR TILE, 12" green tile w/black & white streaks              | 415 SF 10 Non        | 10          | Non             | Not Damaged 0.00 | 0.00 | O&M                   |   |
| Lo           | cations:              | Locations: Rooms 108   |                      |             |                 |                  | _    |                       | ٦ |
| 21           | 7                     | 21 7 Misc, COVING MASTIC, Dark brown/black                                 | 1,177 LF 3           | с           | Non             | Not Damaged      | 0.00 | O&M                   |   |

Locations: Rooms 100, 101, 103, L-2, 104, 104a, 108, 109b, 112, 115, 117, 118, 120, E-001, H-100, H-101

O&M Table Page 1 of 1

Homo No= Homogenous Area Number, ACM= Asbestos Containing Material, TSI= Thermal System Insulation, MISC= Miscellaneous, Quantity: SF= Square Footage, LF= Linear Feet, Friability: Mod= Moderate, Non= Non-Friable, Recommended Action: O&M= Operation and Maintenance, Refer to the Section III Operations and Maintenance Plan for standard O&M and Repair procedures.



### 7469 WHITE PINE ROAD - RICHMOND, VA 23237 804-275-4788 FAX 804-275-4907

### BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

| CLIENT: | Environmental Enterprise Group, Inc. | DATE OF RECEIPT:  | 19 OCT 2004              |
|---------|--------------------------------------|-------------------|--------------------------|
|         | 1345 Barracks Road                   | DATE OF ANALYSIS: | 20  OCT  2004            |
|         | North Charleston, SC 29405           | DATE OF REPORT:   | $21\ \mathrm{OCT}\ 2004$ |

### CLIENT NUMBER: 42-4515 B

**EHS PROJECT #:** 10-04-2881

**PROJECT:** US Army Reserve Center-Niagara Falls; Building #21

| EHS<br>SAMPLE # | CLIENT SAMPLE #/<br>LABORATORY GROSS DESCRIPTION  | % ASBESTOS                         | OTHER MATERIALS                  |
|-----------------|---|------------------------------------|----------------------------------|
| 01A             | ARC-Niagara Flls-001(a)-Tile/<br>Brown Vinyl      | NAD                                | 100% Non-Fibrous                 |
| 01B             | ARC-Niagara Flls-001(b)-Mastic/<br>Black Tar-Like | NAD                                | 5% Cellulose<br>95% Non-Fibrous  |
| 02A             | ARC-Niagara Flls-002(a)-Tile/<br>Brown Vinyl      | NAD                                | 100% Non-Fibrous                 |
| 02B             | ARC-Niagara Flls-002(b)-Mastic/<br>Black Tar-Like | NAD                                | 5% Cellulose<br>95% Non-Fibrous  |
| 03              | ARC-Niagara Flls-003/<br>White/Brown Fib.         | NAD                                | 90% Cellulose<br>10% Non-Fibrous |
| 04              | ARC-Niagara Flls-004/<br>White/Brown Fib.         | NAD                                | 90% Cellulose<br>10% Non-Fibrous |
| 05A             | ARC-Niagara Flls-005(a)-Tile/<br>Brown Vinyl      | NAD                                | 100% Non-Fibrous                 |
| 05B             | ARC-Niagara Flls-005(b)-Mastic/<br>Black Tar-Like | NAD                                | 5% Cellulose<br>95% Non-Fibrous  |
| 06A             | ARC-Niagara Flls-006(a)-Tile/<br>Brown Vinyl      | NAD                                | 100% Non-Fibrous                 |
| 06B             | ARC-Niagara Flls-006(b)-Mastic/<br>Black Tar-Like | NAD                                | 5% Cellulose<br>95% Non-Fibrous  |
| 07              | ARC-Niagara Flls-007/<br>White Powder             | NAD                                | 15% Cellulose<br>85% Non-Fibrous |
| 08              | ARC-Niagara Flls-008/<br>White Powder             | NAD                                | 15% Cellulose<br>85% Non-Fibrous |
| 09A             | ARC-Niagara Flls-009(a)-Tile/<br>Green Vinyl      | 4% Chrysotile<br>4% Total Asbestos | 96% Non-Fibrous                  |

-- PAGE 01 of 03 --

CLIENT NUMBER:42-4515 BEHS PROJECT #:10-04-2881PROJECT:US Army Reserve Center-Niagara Falls; Building #21

| EHS<br><u>SAMPLE #</u> | CLIENT SAMPLE #/<br>LABORATORY GROSS D            | ESCRIPTION      | % ASBESTOS                         | OTHER MATERIALS                 |
|------------------------|---|-----------------|------------------------------------|---------------------------------|
| 09B                    | ARC-Niagara Flls-009(b)-<br>Black Tar-Like        | Mastic/         | NAD                                | 5% Cellulose<br>95% Non-Fibrous |
| 10A                    | ARC-Niagara Flls-010(a)-<br>Green Vinyl           | Tile/           | 4% Chrysotile<br>4% Total Asbestos | 96% Non-Fibrous                 |
| 10B                    | ARC-Niagara Flls-010(b)-<br>Black Tar-Like        | Mastic/         | NAD                                | 5% Cellulose<br>95% Non-Fibrous |
| 11                     | ARC-Niagara Flls-011/<br>Brown Adhes.; Black Tar- | Like            | 2% Chrysotile<br>2% Total Asbestos | 1% Cellulose<br>97% Non-Fibrous |
| 12                     | ARC-Niagara Flls-012/<br>Brown Adhes.             |                 | NAD                                | 2% Cellulose<br>98% Non-Fibrous |
| 13                     | ARC-Niagara Flls-013/<br>Brown Adhes.             |                 | NAD                                | 1% Cellulose<br>99% Non-Fibrous |
| 14                     | ARC-Niagara Flls-014/<br>Brown Adhes.             |                 | NAD                                | 1% Cellulose<br>99% Non-Fibrous |
| QC                     | SAMPLE:   | M1-1999-1       |                                    |                                 |
| QC                     | BLANK:  | SRM 1866 Fiber  | rglass                             |                                 |
| REF                    | PORTING LIMIT:                                    | 1% Asbestos     |                                    |                                 |
| MET                    | THOD:   | Polarized Light | Microscopy, EPA Method 600         | /R-93/116 *                     |
| ANA                    | ALYST:  | Christian H. Sc | haible                             |                                 |

### **Reviewed By Authorized Signatory:**

Howard Varner, Laboratory Director Irma Faszewski, Quality Assurance Coordinator David Xu, MS, Senior Chemist Feng Jiang, MS, Senior Geologist Michael A. Mueller, Quality Assurance Manager

| CLIENT NUMBER: | 42-4515 B  |
|----------------|--|
| EHS PROJECT #: | 10-04-2881   |
| PROJECT:       | US Army Reserve Center-Niagara Falls; Building #21 |

Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of Environmental Hazards Services, L.L.C. California Certification #2319 NY ELAP #11714. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), for enhanced detection capabilities) for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

\* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

| LEGEND | NAD = no asbestos detected     |
|--------|--------------------------------|
|        | SCF = suspected ceramic fibers |
|        |                                |

plm1.dot/07JAN2002/ MR

-- PAGE 03 of 03 -- END OF REPORT --



Niagara Falls Armed Forces Reserve Center - Niagara Falls, NY (NY046) Building 22 - Mess Hall and Storage Building

### BUILDING 22: Dining Hall/Storage

### 1. DESCRIPTION:

Building 22 is a 20,703 square-foot building constructed in 1956. It is a concrete block structure with brick exterior and shingled and rubber-coated roofing. The following information was identified during the survey and from the analysis of the samples taken:

- Nine homogeneous areas were identified during the initial survey.
- No homogeneous areas were assumed to contain asbestos.
- Nine of the homogeneous areas were suspected to contain asbestos and sampled to confirm.
- Two of the suspected homogeneous areas were confirmed to contain asbestos.
- Seven of the suspected homogenous areas did not contain asbestos.

### 2. FINDINGS:

Nine homogeneous areas with suspected ACM were identified. Eighteen samples were collected and analyzed. Sample results are summarized in the Laboratory Test Results table in this section. Friable asbestos was found in two of the homogeneous areas.

**Confirmed ACM.** The following homogeneous areas sampled were confirmed to contain asbestos:

- H-7: MISC, CORK PANELS, Brown/black, was Low-friable and Damaged.
- H-8: TSI, FITTING, MUDDED, Gray, was Moderately-friable and Not Damaged.

Asbestos Free. Asbestos was not detected in the following homogeneous areas:

- H-1: MISC, SHEETROCK/MUD, White
- H-2: MISC, ACOUSTICAL TILE, White smooth w/small uniform pinholes
- H-3: MISC, ACOUSTICAL TILE MASTIC, Brown
- H-4: MISC, ACOUSTICAL TILE, White w/irregular grooves
- H-5: MISC, ACOUSTICAL TILE, White w/large & small uniform pinholes
- H-6: MISC, ACOUSTICAL TILE, White w/rough texture & tiny pinholes
- H-9: MISC, FLOOR TILE & MASTIC, 12" light brown marbled tile/mastic

**Assumed ACM.** The following homogeneous areas were assumed to contain asbestos: **NONE** 

### 3. OBSERVATIONS:

More TSI (H-8) may be inaccessible behind walls/ceilings. Non-suspect shingled roofing and ceiling tiles was installed in the mid-1990s.

### 4. RECOMMENDED ABATEMENT ACTIONS:

Recommended actions for the following homogeneous areas:

- H-7: MISC, CORK PANELS, Brown/black: Remove/O&M
- H-8: TSI, FITTING, Gray: Remove/O&M

### 5. RECOMMENDATIONS FOR OPERATIONS AND MAINTENANCE:

Operations and Maintenance (O&M) recommendations for confirmed and assumed homogeneous materials of ACM are found in the *Operations & Maintenance Table* of this report. The materials listed below should be maintained following the guidelines in the O&M Plan during regular maintenance and small-scale repair activities, until removed.

MISC CORK PANELS is Confirmed, Low-friable ACM.

H-7 (CORK PANELS, Brown/black) are located in Room 210.

TSI FITTING is Confirmed, Moderately-friable ACM.

H-8 (FITTINGS, Gray) are located in Room 103.

| BUIL               | BUILDING SUMMARY TABLE US ARMY<br>AS  | RESE<br>BESTO | RVE C<br>DS BU                       |                | - L<br>2<br>2<br>2 | US ARMY RESERVE CENTER - NIAGARA FALLS<br>ASBESTOS BUILDING INSPECTION | FALLS<br>N    | Building No. 22              |  |
|--------------------|---|---------------|--------------------------------------|----------------|--------------------|--|---------------|------------------------------|--|
| H- ACM<br>No Y,N,A | Material Description  | Quantity      | Quantity Rating Fria- Cond<br>bility | a- Cond<br>ity | ۵<br>%             | Recommended<br>Action  | Abate<br>Cost | Comments                     |  |
| z<br>F             | Misc, SHEETROCK/MUD, White  | SF            | 0                                    |                |                    |  |               |                              |  |
| Z<br>N             | Rooms 106, 206, various<br>Misc, ACOUSTICAL TILE, White smooth w/small uniform                      | SF            | 0                                    |                |                    |  | Located       | -ocated above ceiling tiles. |  |
| z<br>e             | Rooms 201, 203, various<br>Misc, ACOUSTICAL TILE MASTIC, Brown                                      | SF            | 0                                    |                |                    |  |               |                              |  |
| 4<br>N             | Rooms 201, 203, various<br>Misc, ACOUSTICAL TILE, White w/irregular grooves                         | SF            | 0                                    |                |                    |  |               |                              |  |
| Z<br>2             | Rooms 202<br>Misc, ACOUSTICAL TILE, White w/large & small uniform                                   | SF            | 0                                    |                |                    |  |               |                              |  |
| z<br>9             | primotes<br>Rooms 206, 206b, 212<br>Misc, ACOUSTICAL TILE, White w/rough texture & tiny<br>pinholes | SF            | 0                                    |                |                    |  |               |                              |  |
| 7                  | Rooms 212<br>Misc, CORK PANELS, Brown/black   | 264 SF        | 10 Low                               | D              | 8.0                | Remove/O&M   | Located       | Located above ceiling tiles. |  |
| 8                  | Rooms 210<br>TSI, FITTING, MUDDED, Gray   | 16 SF         | 22 Mod                               | DD PD          | 0.0                | Remove/O&M   | Located       | Located above ceiling tiles. |  |
| z<br>o             | Rooms 103<br>Misc, FLOOR TILE & MASTIC, 12" light brown marbled<br>tile/mastic<br>Rooms 103         | SF            | 0                                    |                |                    |  |               |                              |  |

**US ARMY RESERVE CENTER - NIAGARA FALLS** 

Note: Asbestos abatement cost estimates are not included in this report.

Building Summary Table Page 1 of 1

H-No= Homogenous Area Number, ACM= Asbestos Containing Material: Y=Yes, N= No, A= Assumed, TSI= Thermal System Insulation, Misc= Miscellaneous, Quantity: SF= Square Footage, LF= Linear Feet, Friability: Mod= Moderate, Condition: PD= Potential for Damage, D= Damaged, SD= Significantly Damaged, Recommended Action: O&M= Operation and Maintenance

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## US ARMY RESERVE CENTER - NIAGARA FALLS ASBESTOS BUILDING INSPECTION INDUSTRIAL LABORATORY TEST REPORT

Building No. 22

| Homo.<br>Area No. | ASB<br>Y/N | Sample Number | Room Number | Material Description:  | Date<br>Sampled | Date<br>Analyzed | Sample Results       | Percent<br>Asbestos |
|-------------------|------------|---------------|-------------|--|-----------------|------------------|----------------------|---------------------|
| 1                 | NO         | Niagrfils-015 | 206         | Misc, SHEETROCK/MUD, White                                     | 10/14/04        | 10/20/04         | No Asbestos Detected | %0                  |
| ٦                 | NO         | Niagrflls-016 | 106         | Misc, SHEETROCK/MUD, White                                     | 10/14/04        | 10/20/04         | No Asbestos Detected | %0                  |
| 2                 | NO         | Niagrflls-017 | 201         | Misc, ACOUSTICAL TILE, White smooth w/small uniform pinholes   | 10/14/04        | 10/20/04         | No Asbestos Detected | %0                  |
| 2                 | ON         | Niagrflls-018 | 203         | Misc, ACOUSTICAL TILE, White smooth w/small uniform pinholes   | 10/14/04        | 10/20/04         | No Asbestos Detected | %0                  |
| 3                 | NO         | Niagrflls-019 | 201         | Misc, ACOUSTICAL TILE MASTIC, Brown                            | 10/14/04        | 10/20/04         | No Asbestos Detected | %0                  |
| 3                 | NO         | NiagrfIIs-020 | 203         | Misc, ACOUSTICAL TILE MASTIC, Brown                            | 10/14/04        | 10/20/04         | No Asbestos Detected | %0                  |
| 4                 | NO         | NiagrfIIs-021 | 202         | Misc, ACOUSTICAL TILE, White w/irregular grooves               | 10/14/04        | 10/20/04         | No Asbestos Detected | %0                  |
| 4                 | NO         | NiagrfIIs-022 | 202         | Misc, ACOUSTICAL TILE, White w/irregular grooves               | 10/14/04        | 10/20/04         | No Asbestos Detected | %0                  |
| 5                 | NO         | NiagrfIls-023 | 206         | Misc, ACOUSTICAL TILE, White w/large & small uniform pinholes  | 10/14/04        | 10/20/04         | No Asbestos Detected | %0                  |
| 5                 | N          | NiagrfIls-024 | 206b        | Misc, ACOUSTICAL TILE, White w/large & small uniform pinholes  | 10/14/04        | 10/20/04         | No Asbestos Detected | %0                  |
| 9                 | NO         | Niagrflls-025 | 212         | Misc, ACOUSTICAL TILE, White w/rough texture & tiny pinholes   | 10/14/04        | 10/20/04         | No Asbestos Detected | %0                  |
| 9                 | NO         | Niagrflls-026 | 212         | Misc, ACOUSTICAL TILE, White w/rough texture & tiny pinholes   | 10/14/04        | 10/20/04         | No Asbestos Detected | %0                  |
| 7                 | YES        | NiagrfIIs-027 | 210         | Misc, CORK PANELS, Brown/black                                 | 10/14/04        | 10/20/04         | Chrysotile           | 2%                  |
| 7                 | YES        | NiagrfIIs-028 | 210         | Misc, CORK PANELS, Brown/black                                 | 10/14/04        | 10/20/04         | Chrysotile           | 2%                  |
| 8                 | YES        | NiagrfIIs-029 | 103         | TSI, FITTING, Gray   | 10/14/04        | 10/20/04         | Chrysotile           | 80%                 |
| ω                 | YES        | NiagrfIIs-030 | 103         | TSI, FITTING, Gray   | 10/14/04        | 10/20/04         | Chrysotile           | 80%                 |
| 8                 | YES        | NiagrfIIs-031 | 103         | TSI, FITTING, Gray   | 10/14/04        | 10/20/04         | Chrysotile           | 80%                 |
| 6                 | N          | NiagrfIIs-032 | 103         | Misc, FLOOR TILE & MASTIC, 12" light brown marbled tile/mastic | 10/14/04        | 10/20/04         | No Asbestos Detected | %0                  |

OPERATIONS AND MAINTENANCE TABLE

# US ARMY RESERVE CENTER - NIAGARA FALLS ASBESTOS BUILDING INSPECTION

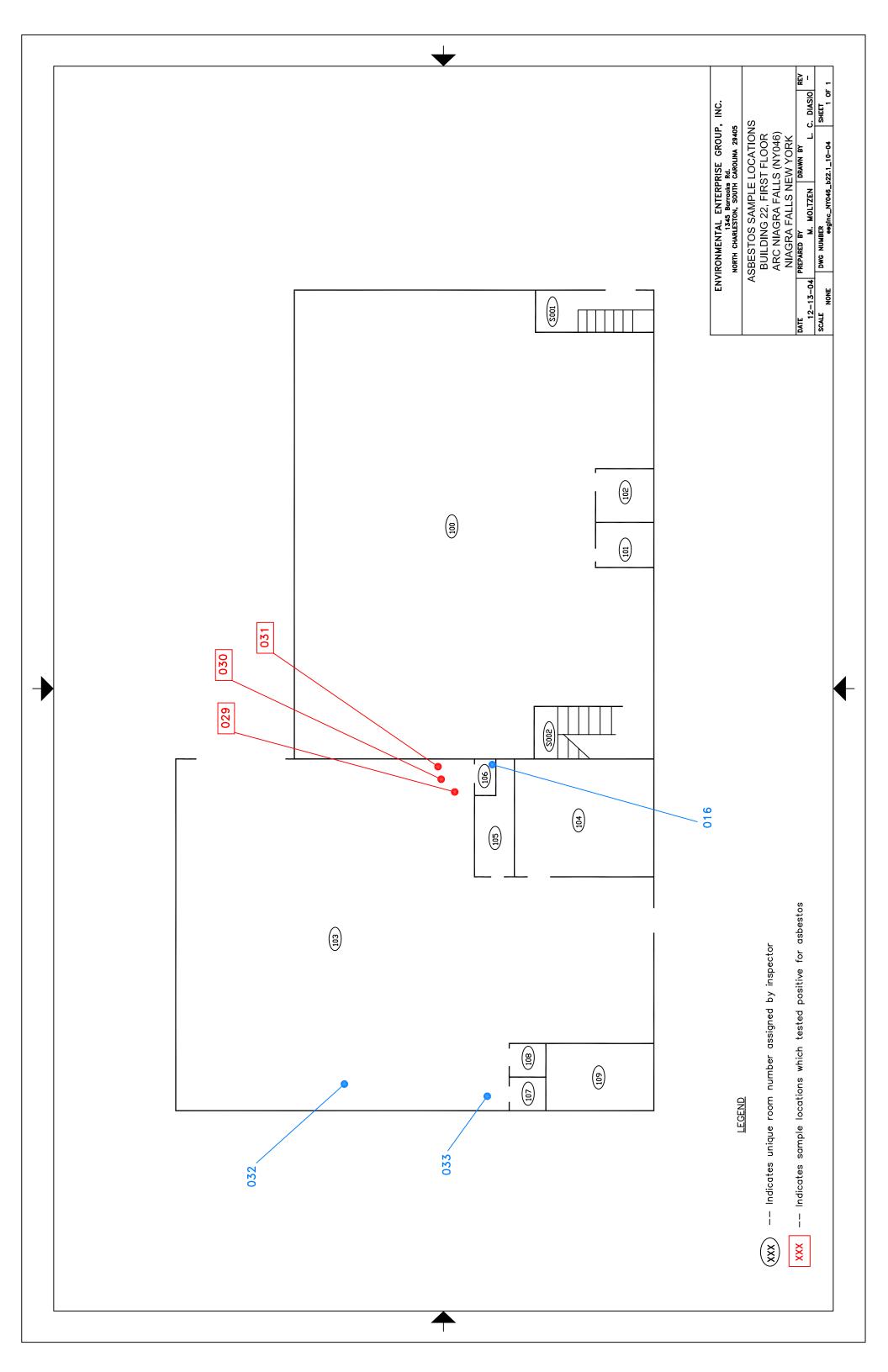
O&M

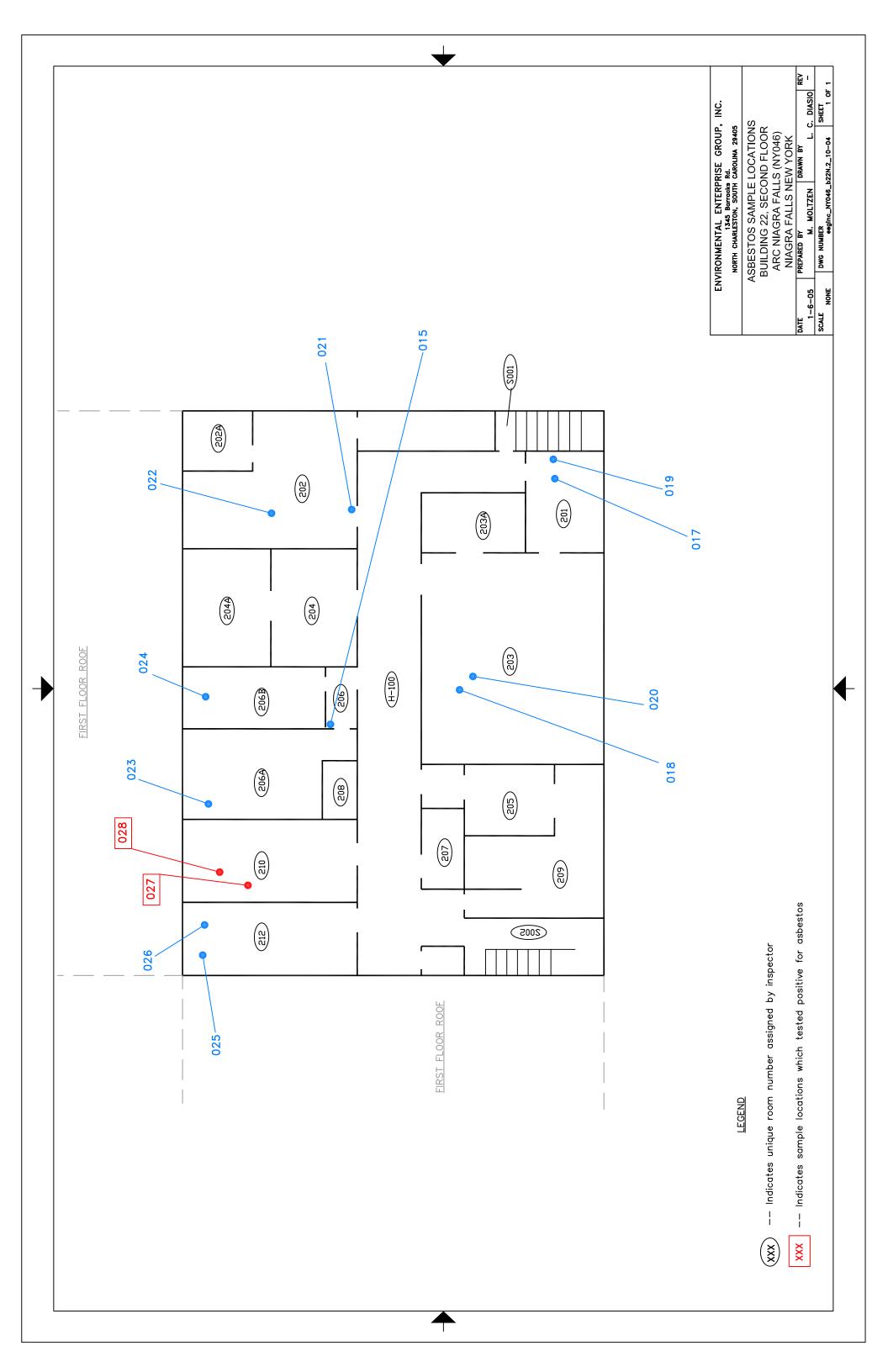
| Bldg. | sldg. Homo | Material Description             | Quantity Rat- Fria-<br>ing bility | Rat-<br>ing | Fria-<br>bilitv | Condition                   | а<br>% | Recommended<br>Action |
|-------|------------|----------------------------------|-----------------------------------|-------------|-----------------|-----------------------------|--------|-----------------------|
| 22    | 2          | 7 Misc, CORK PANELS, Brown/black | 264 SF 10 Low                     | <b>1</b> 0  | Low             | Damaged                     | 8.00   | 8.00 Remove/O&M       |
| Loc   | ations:    | ocations: Rooms 210              |                                   | _           |                 |                             |        |                       |
| 22    | 8          | 22 8 TSI, FITTING, MUDDED, Gray  | 16 SF 22 Mod                      | 22          | Mod             | Not Damaged 0.00 Remove/O&M | 0.00   | Remove/O&M            |

Locations: Rooms 103

O&M Table Page 1 of 1

Homo No= Homogenous Area Number, ACM= Asbestos Containing Material, TSI= Thermal System Insulation, MISC= Miscellaneous, Quantity: SF= Square Footage, LF= Linear Feet, Friability: Mod= Moderate, Non= Non-Friable, Recommended Action: O&M= Operation and Maintenance, Refer to the Section III Operations and Maintenance Plan for standard O&M and Repair procedures.





### **ENVIRONMENTAL HAZARDS SERVICES, L.L.C.**

7469 WHITE PINE ROAD - RICHMOND, VA 23237 804-275-4788 FAX 804-275-4907

### BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

| CLIENT: | Environmental Enterprise Group, Inc. | DATE OF RECEIPT:  | 19 OCT 2004              |
|---------|--------------------------------------|-------------------|--------------------------|
|         | 1345 Barracks Road                   | DATE OF ANALYSIS: | $20\ \mathrm{OCT}\ 2004$ |
|         | North Charleston, SC 29405           | DATE OF REPORT:   | 20  OCT  2004            |

### CLIENT NUMBER:42-4515 BEHS PROJECT #:10-04-2883PROJECT:US Army Reserve Center-Niagara Falls; Building #22

| EHS<br><u>SAMPLE #</u> | CLIENT SAMPLE #/<br>LABORATORY GROSS DESCRIPTION | % ASBESTOS | OTHER MATERIALS                                       |
|------------------------|--|------------|---|
| 01                     | ARC-NiagaraFlls-015/<br>White Powder; Brown Fib. | NAD        | 40% Cellulose<br>60% Non-Fibrous                      |
| 02                     | ARC-NiagaraFlls-016/<br>White Powder; Brown Fib. | NAD        | 10% Cellulose<br>90% Non-Fibrous                      |
| 03                     | ARC-NiagaraFlls-017/<br>Brown Fib.               | NAD        | 95% Cellulose<br>5% Non-Fibrous                       |
| 04                     | ARC-NiagaraFlls-018/<br>Brown Fib.               | NAD        | 95% Cellulose<br>5% Non-Fibrous                       |
| 05                     | ARC-NiagaraFlls-019/<br>Brown Adhes.             | NAD        | 100% Non-Fibrous                                      |
| 06                     | ARC-NiagaraFlls-020/<br>Brown Adhes.             | NAD        | 100% Non-Fibrous                                      |
| 07                     | ARC-NiagaraFlls-021/<br>Gray Fib.                | NAD        | 40% Cellulose<br>40% Fibrous Glass<br>20% Non-Fibrous |
| 08                     | ARC-NiagaraFlls-022/<br>Gray Fib.                | NAD        | 40% Cellulose<br>40% Fibrous Glass<br>20% Non-Fibrous |
| 09                     | ARC-NiagaraFlls-023/<br>Brown Fib.               | NAD        | 95% Cellulose<br>5% Non-Fibrous                       |
| 10                     | ARC-NiagaraFlls-024/<br>Brown Fib.               | NAD        | 95% Cellulose<br>5% Non-Fibrous                       |
| 11                     | ARC-NiagaraFlls-025/<br>Brown Fib.               | NAD        | 95% Cellulose<br>5% Non-Fibrous                       |
| 12                     | ARC-NiagaraFlls-026/<br>Brown Fib.               | NAD        | 95% Cellulose<br>5% Non-Fibrous                       |

### **ENVIRONMENTAL HAZARDS SERVICES, L.L.C.**

CLIENT NUMBER:42-4515 BEHS PROJECT #:10-04-2883PROJECT:US Army Reserve Center-Niagara Falls; Building #22

| EHS<br><u>SAMPLE #</u> | CLIENT SAMPLE #/<br>LABORATORY GROSS DESCRIPTION   | % ASBESTOS   | OTHER MATERIALS           |
|------------------------|--|--|---------------------------|
| 13                     | ARC-NiagaraFlls-027/<br>Brown Foam; Black Tar-Like | 2% Chrysotile ★<br>2% Total Asbestos<br>★Present in the tar-like mat | 98% Non-Fibrous<br>erial. |
| 14                     | ARC-NiagaraFlls-028/<br>Brown Foam; Black Tar-Like | 2% Chrysotile ★<br>2% Total Asbestos<br>★Present in the tar-like mat | 98% Non-Fibrous<br>erial. |
| 15                     | ARC-NiagaraFlls-029/<br>Gray Powder; Fib.          | 80% Chrysotile<br>80% Total Asbestos                                 | 20% Non-Fibrous           |
| 16                     | ARC-NiagaraFlls-030/<br>Gray Powder; Fib.          | 80% Chrysotile<br>80% Total Asbestos                                 | 20% Non-Fibrous           |
| 17                     | ARC-NiagaraFlls-031/<br>Gray Powder; Fib.          | 80% Chrysotile<br>80% Total Asbestos                                 | 20% Non-Fibrous           |
| 18A                    | ARC-NiagaraFlls-032(a)-Tile/<br>Gray Vinyl         | NAD  | 100% Non-Fibrous          |
| 18B                    | ARC-NiagaraFlls-032(b)-Mastic/<br>Black Adhes.     | NAD  | 100% Non-Fibrous          |
| 19A                    | ARC-NiagaraFlls-033(a)-Tile/<br>Gray Vinyl         | NAD  | 100% Non-Fibrous          |
| 19B                    | ARC-NiagaraFlls-033(b)-Mastic/<br>Black Adhes.     | NAD  | 100% Non-Fibrous          |
| QC SA                  | MPLE: M2-1999-2                                    |  |                           |

| QC BLANK:        | SRM 1866 Fiberglass                                   |
|------------------|---|
| REPORTING LIMIT: | 1% Asbestos   |
| METHOD:          | Polarized Light Microscopy, EPA Method 600/R-93/116 * |
| ANALYST:         | Feng Jiang, M.S.                                      |

**Reviewed By Authorized Signatory:** 

Howard Varner, Laboratory Director Irma Faszewski, Quality Assurance Coordinator David Xu, MS, Senior Chemist Feng Jiang, MS, Senior Geologist Michael A. Mueller, Quality Assurance Manager

-- PAGE 02 of 03 --ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

| CLIENT NUMBER: | 42-4515 B  |
|----------------|--|
| EHS PROJECT #: | 10-04-2883   |
| PROJECT:       | US Army Reserve Center-Niagara Falls; Building #22 |

Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of Environmental Hazards Services, L.L.C. California Certification #2319 NY ELAP #11714. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

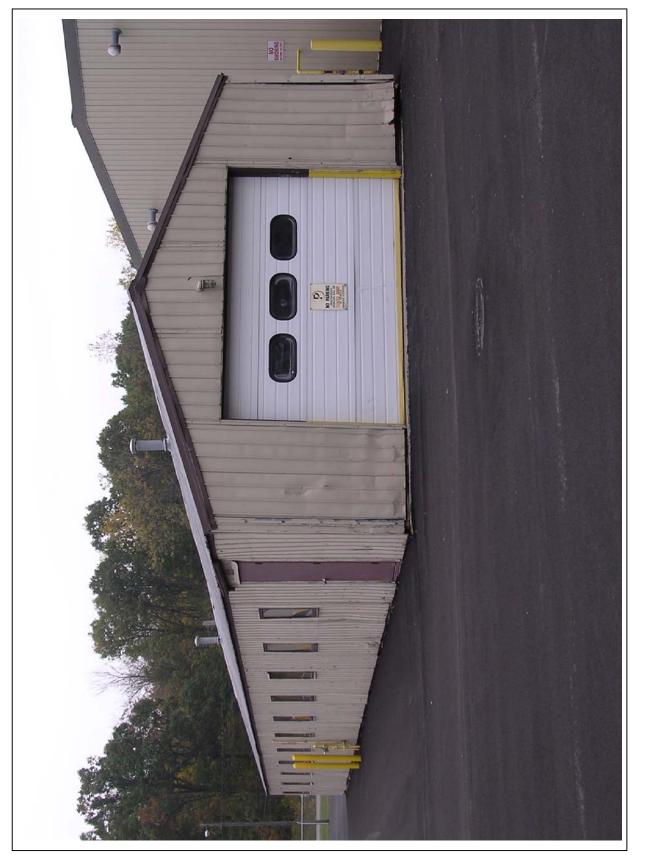
Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), for enhanced detection capabilities) for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

\* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

| LEGEND | NAD = no asbestos detected     |
|--------|--------------------------------|
|        | SCF = suspected ceramic fibers |
|        |                                |

plm1.dot/07JAN2002/ MR

-- PAGE 03 of 03 -- END OF REPORT --



Niagara Falls Armed Forces Reserve Center - Niagara Falls, NY (NY046) Building 23 - Storage Building

### **BUILDING 23: Storage Building**

### 1. DESCRIPTION:

Building 23 is a 2,058 square-foot building constructed in 1956. It is a metal-framed structure with metal siding and roofing. The following information was identified during the survey and from the analysis of the samples taken:

- Two homogeneous areas were identified during the initial survey.
- No homogeneous areas were assumed to contain asbestos.
- Two of the homogeneous areas were suspected to contain asbestos and sampled to confirm.
- One of the suspected homogeneous areas was confirmed to contain asbestos.
- One of the suspected homogenous areas did not contain asbestos.

### 2. FINDINGS:

Two homogeneous areas with suspected ACM were identified. Four samples were collected and analyzed. Sample results are summarized in the Laboratory Test Results table in this section. Friable asbestos was not found in any homogeneous areas.

**Confirmed ACM.** The following homogeneous area sampled was confirmed to contain asbestos:

• H-2: MISC, ROOFING, MASTIC, Silver/black, was Non-friable and Not Damaged.

**Asbestos Free.** Asbestos was not detected in the following homogeneous areas:

• H-1: MISC, SHEETROCK/MUD, White

**Assumed ACM.** The following homogeneous areas were assumed to contain asbestos: NONE

### 3. OBSERVATIONS:

No observations.

### 4. RECOMMENDED ABATEMENT ACTIONS:

Recommended actions for the following homogeneous areas:

• H-2: MISC, ROOFING, Silver/black: O&M

### 5. RECOMMENDATIONS FOR OPERATIONS AND MAINTENANCE:

Operations and Maintenance (O&M) recommendations for confirmed and assumed homogeneous materials of ACM are found in the *Operations & Maintenance Table* of this report. The materials listed below should be maintained following the guidelines in the O&M Plan during regular maintenance and small-scale repair activities, until removed.

MISC ROOFING is Confirmed, Non-friable ACM.

H-2 (ROOFING, Silver/black) is located on the Roof.

| US ARMY RESERVE CEN |                        |
|---------------------|------------------------|
|                     | BUILDING SUMMARY LABLE |

## S ARMY RESERVE CENTER - NIAGARA FALLS ASBESTOS BUILDING INSPECTION

Building No. 23

| Ϊž | H- ACM<br>No Y,N,A | Material Description                  | Quantity | Rating | Fria- Co<br>bility | D<br>% puc | Quantity Rating Fria- Cond % Recommended Abate<br>bility D Action Cost | Abate<br>Cost | Comments            |
|----|--------------------|---------------------------------------|----------|--------|--------------------|------------|--|---------------|---------------------|
| -  | z                  | N Misc, SHEETROCK/MUD, White          | SF       | 0      |                    |            |  |               |                     |
|    |                    | Rooms 100                             |          |        |                    | _          |  | _             |                     |
| 7  | ~                  | Y Misc, ROOFING, MASTIC, Silver/black | 2,060 SF | 6      | SF 9 Non PD 0.0    | D 0.0      | O&M  |               | Covers entire roof. |
|    |                    | Rooms Roof                            |          |        | _                  | _          |  |               |                     |

Note: Asbestos abatement cost estimates are not included in this report.

Building Summary Table Page 1 of 1

H-No= Homogenous Area Number, ACM= Asbestos Containing Material: Y=Yes, N= No, A= Assumed, TSI= Thermal System Insulation, Misc= Miscellaneous, Quantity: SF= Square Footage, LF= Linear Feet, Friability: Mod= Moderate, Condition: PD= Potential for Damage, D= Damaged, SD= Significantly Damaged, Recommended Action: O&M= Operation and Maintenance

| US ARMY RESERVE CEN |                        |
|---------------------|------------------------|
|                     | BUILDING SUMMARY LABLE |

## S ARMY RESERVE CENTER - NIAGARA FALLS ASBESTOS BUILDING INSPECTION

Building No. 23

| Ϊž | H- ACM<br>No Y,N,A | Material Description                  | Quantity | Rating | Fria- Co<br>bility | D<br>% puc | Quantity Rating Fria- Cond % Recommended Abate<br>bility D Action Cost | Abate<br>Cost | Comments            |
|----|--------------------|---------------------------------------|----------|--------|--------------------|------------|--|---------------|---------------------|
| -  | z                  | N Misc, SHEETROCK/MUD, White          | SF       | 0      |                    |            |  |               |                     |
|    |                    | Rooms 100                             |          |        |                    | _          |  | _             |                     |
| 7  | ~                  | Y Misc, ROOFING, MASTIC, Silver/black | 2,060 SF | 6      | SF 9 Non PD 0.0    | D 0.0      | O&M  |               | Covers entire roof. |
|    |                    | Rooms Roof                            |          |        | _                  | _          |  |               |                     |

Note: Asbestos abatement cost estimates are not included in this report.

Building Summary Table Page 1 of 1

H-No= Homogenous Area Number, ACM= Asbestos Containing Material: Y=Yes, N= No, A= Assumed, TSI= Thermal System Insulation, Misc= Miscellaneous, Quantity: SF= Square Footage, LF= Linear Feet, Friability: Mod= Moderate, Condition: PD= Potential for Damage, D= Damaged, SD= Significantly Damaged, Recommended Action: O&M= Operation and Maintenance

| OPERATIONS AND<br>MAINTENANCE TABL |                   | BLE     |
|------------------------------------|-------------------|---------|
| A D<br>A A                         | <b>RATIONS AN</b> | TENANCE |
|                                    | Р                 | Σ       |

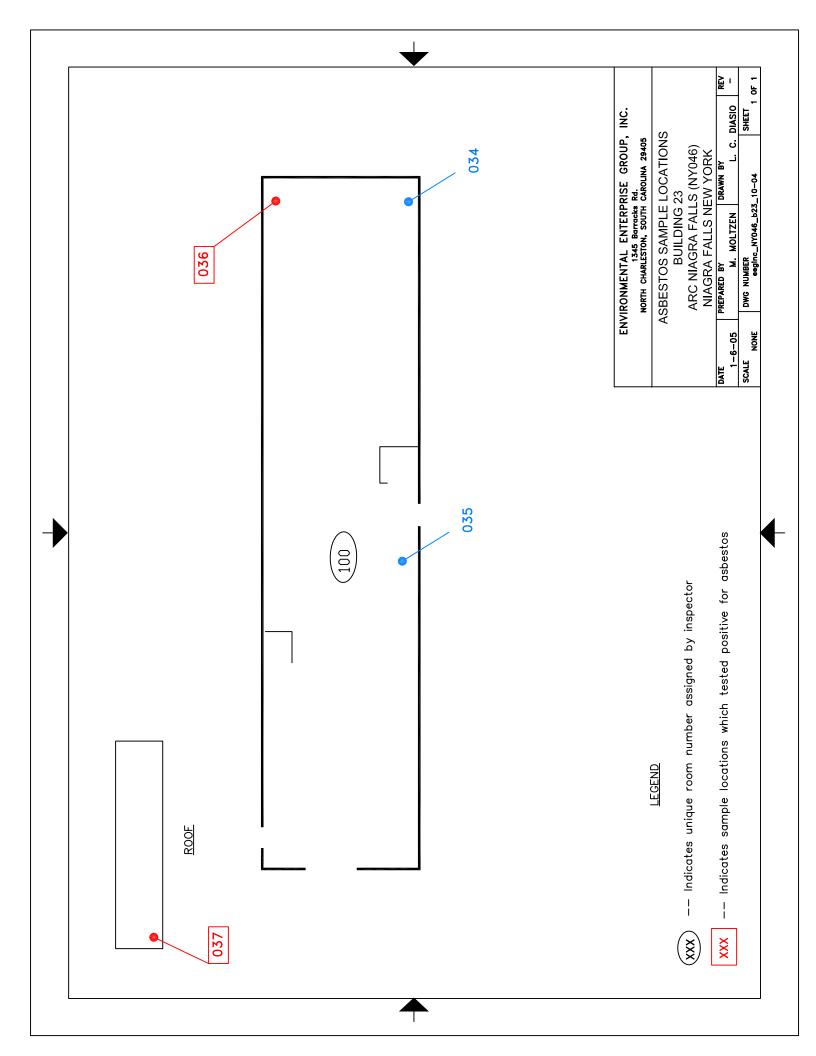
# US ARMY RESERVE CENTER - NIAGARA FALLS ASBESTOS BUILDING INSPECTION

O&M

| Bldg.<br>No. | Homo<br>No. | Material Description                | Quantity | Rat-<br>ing | Fria-<br>bility | Condition   | <b>۵</b> % | Recommended<br>Action |
|--------------|-------------|-------------------------------------|----------|-------------|-----------------|-------------|------------|-----------------------|
| 23           | 7           | Misc, ROOFING, MASTIC, Silver/black | 2,060 SF | ი           | Non             | Not Damaged | 0.00       | O&M                   |
|              | ations.     | Rooms Roof                          |          |             |                 |             |            |                       |

O&M Table Page 1 of 1

Homo No= Homogenous Area Number, ACM= Asbestos Containing Material, TSI= Thermal System Insulation, MISC= Miscellaneous, Quantity: SF= Square Footage, LF= Linear Feet, Friability: Mod= Moderate, Non= Non-Friable, Recommended Action: O&M= Operation and Maintenance, Refer to the Section III Operations and Maintenance Plan for standard O&M and Repair procedures.



### **ENVIRONMENTAL HAZARDS SERVICES, L.L.C.**

### 7469 WHITE PINE ROAD - RICHMOND, VA 23237 804-275-4788 FAX 804-275-4907

### **BULK ASBESTOS SAMPLE ANALYSIS SUMMARY**

| CLIENT: | Environmental Enterprise Group, Inc. | DATE OF RECEIPT:  | 19 OCT 2004              |
|---------|--------------------------------------|-------------------|--------------------------|
|         | 1345 Barracks Road                   | DATE OF ANALYSIS: | $21\ \mathrm{OCT}\ 2004$ |
|         | North Charleston, SC 29405           | DATE OF REPORT:   | $21\ \mathrm{OCT}\ 2004$ |

### CLIENT NUMBER:42-4515 BEHS PROJECT #:10-04-2871PROJECT:US Army Reserve Center-Niagra Falls; Building #23

| EHS<br>SAMPLE # | CLIENT SAMPLE #/<br>LABORATORY GROSS D        | ESCRIPTION    | % ASBESTOS                         | OTHER MATERIALS                  |
|-----------------|---|---------------|------------------------------------|----------------------------------|
| 01              | ARC-NiagrFlls-034/<br>White Chalky; Brown Fib |               | NAD                                | 10% Cellulose<br>90% Non-Fibrous |
| 02              | ARC-NiagrFlls-035/<br>White Chalky; Brown Fib |               | NAD                                | 10% Cellulose<br>90% Non-Fibrous |
| 03              | ARC-NiagrFlls-036/<br>Silver Paint-Like       |               | 2% Chrysotile<br>2% Total Asbestos | 98% Non-Fibrous                  |
| 04              | ARC-NiagrFlls-037/<br>Silver Paint-Like       |               | 2% Chrysotile<br>2% Total Asbestos | 98% Non-Fibrous                  |
|                 |   |               |                                    |                                  |
| QC SA           | MPLE:   | M2-1999-3     |                                    |                                  |
| QC BL           | ANK:  | SRM 1866 Fibe | rglass                             |                                  |

**REPORTING LIMIT:** 1% Asbestos

METHOD: Polarized Light Microscopy, EPA Method 600/R-93/116 \*

ANALYST: Melissa Boggs Steiniger

### Reviewed By Authorized Signatory:

Howard Varner, Laboratory Director Irma Faszewski, Quality Assurance Coordinator David Xu, MS, Senior Chemist Feng Jiang, MS, Senior Geologist Michael A. Mueller, Quality Assurance Manager

### **ENVIRONMENTAL HAZARDS SERVICES, L.L.C.**

CLIENT NUMBER:42-4515 BEHS PROJECT #:10-04-2871PROJECT:US Army Reserve Center-Niagra Falls; Building #23

Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of Environmental Hazards Services, L.L.C. California Certification #2319 NY ELAP #11714. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), for enhanced detection capabilities) for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

\* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

| LEGEND          | NAD = no asbestos detected     |
|-----------------|--------------------------------|
| -               | SCF = suspected ceramic fibers |
| plm1.dot/07JAN2 | 2002/ MR                       |

-- PAGE 02 of 02 -- END OF REPORT --



Niagara Falls Armed Forces Reserve Center - Niagara Falls, NY (NY046) Building 24 - Storage Building

### **BUILDING 24:** Storage Building

### 1. DESCRIPTION:

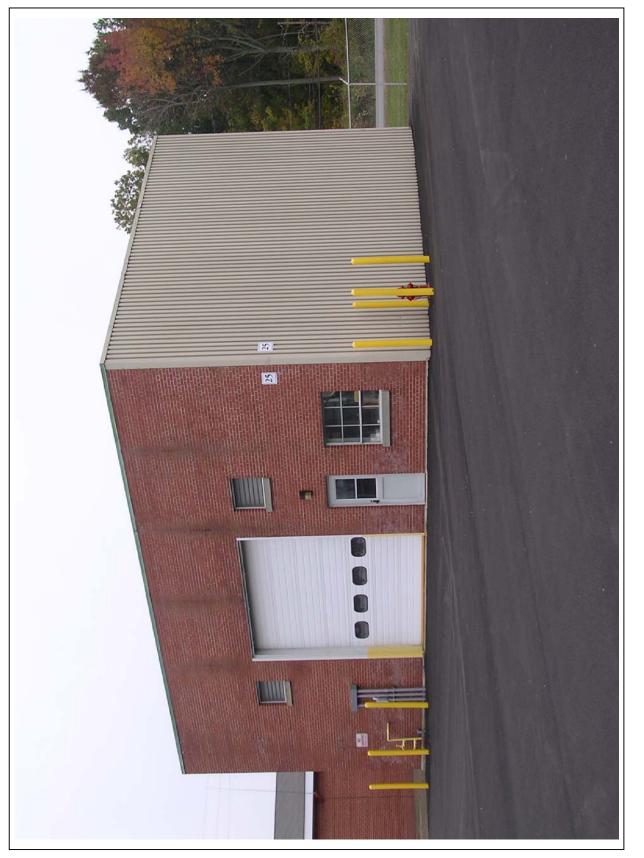
Building 24 is a 2,400 square-foot building constructed in 1993. It is a metalframed structure with metal siding and roofing. **Inspection of this building revealed no suspected asbestos containing materials**. The following information was identified during the survey:

- No homogeneous areas were identified during the initial survey.
- No homogeneous areas were assumed to contain asbestos.

### 2. FINDINGS:

No homogeneous areas with suspected ACM were identified. No samples were collected or analyzed.

- 3. OBSERVATIONS: NO SUSPECT MATERIALS FOUND
- 4. RECOMMENDED ABATEMENT ACTIONS: NONE
- 5. RECOMMENDATIONS FOR OPERATIONS AND MAINTENANCE: NONE



Niagara Falls Armed Forces Reserve Center - Niagara Falls, NY (NY046) Building 25 – Storage Building

### **BUILDING 25: Former Power Plant**

### 1. DESCRIPTION:

Building 25 is a 1,504 square-foot building constructed 1956. It is a concrete block structure with brick exterior. The following information was identified during the survey and from the analysis of the samples taken:

- One homogeneous area was identified during the initial survey.
- No homogeneous areas were assumed to contain asbestos.
- The homogeneous area was suspected to contain asbestos and sampled to confirm.
- No suspected homogeneous areas were confirmed to contain asbestos.

### 2. FINDINGS:

One homogeneous area with suspected ACM was identified. Two samples were collected and analyzed. Sample results are summarized in the Laboratory Test Results table in this section. Asbestos was not found in any homogeneous areas.

**Confirmed ACM.** The following homogeneous areas sampled were confirmed to contain asbestos: **NONE** 

**Asbestos Free.** Asbestos was not detected in the following homogeneous areas:

• H-1: MISC, GLAZING, WINDOW INTERIOR, Gray

**Assumed ACM.** The following homogeneous areas were assumed to contain asbestos: **NONE** 

### 3. OBSERVATIONS:

New roofing installed within past 4 years.

### 4. RECOMMENDED ABATEMENT ACTIONS: NONE

### 5. RECOMMENDATIONS FOR OPERATIONS AND MAINTENANCE: NONE

| ш  | :<br>UIL           | BUILDING SUMMARY TABLE   | US AKMY RESERVE CENTER - NIAGARA FALLS<br>ASBESTOS BUILDING INSPECTION | ESTC         | Х<br>S<br>B<br>П<br>B<br>C |                    | NG<br>NG | INSF | TOS BUILDING INSPECTION  | r ALLS        | Building No. 25 |
|----|--------------------|--|--|--------------|----------------------------|--------------------|----------|------|--|---------------|-----------------|
| ±γ | H- ACM<br>No Y,N,A | M Material Description   | ā  | uantity      | Rating                     | Fria- Cc<br>bility | 0<br>D   | Reco | Quantity Rating Fria- Cond % Recommended Abate<br>bility D Action Cost | Abate<br>Cost | Comments        |
| -  | z                  | N Misc, GLAZING, WINDOW INTERIOR, Gray                                   |  | SF           | 0                          | •                  |          |      |  |               |                 |
|    |                    | Rooms 100  |  |              |                            |                    | -        |      |  |               |                 |
|    |                    | Note: Asbestos abatement cost estimates are not included in this report. | imates are not included  | l in this re | port.                      |                    |          |      |  |               |                 |

**US ARMY RESERVE CENTER - NIAGARA FALLS** 

H-No= Homogenous Area Number, ACM= Asbestos Containing Material: Y=Yes, N= No, A= Assumed, TSI= Thermal System Insulation, Misc= Miscellaneous, Quantity: SF= Square Footage, LF= Linear Feet, Friability: Mod= Moderate, Condition: PD= Potential for Damage, D= Damaged, SD= Significantly Damaged, Recommended Action: O&M= Operation and Maintenance

Building Summary Table Page 1 of 1

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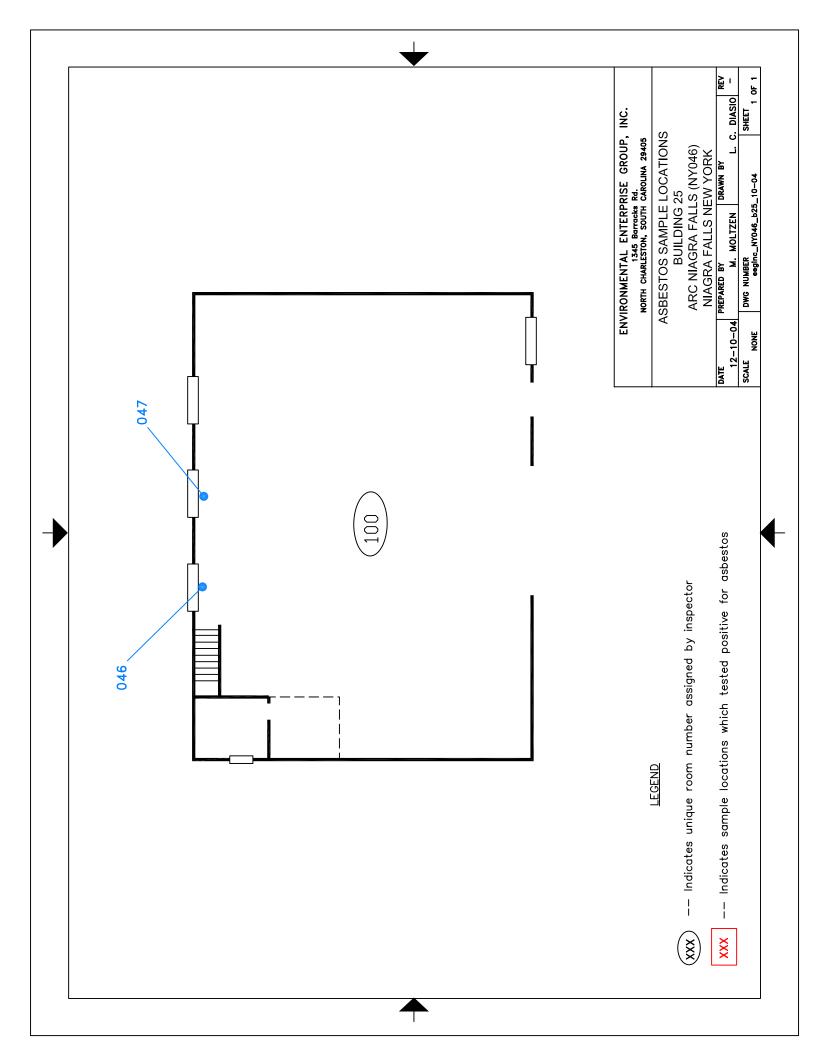
### US ARMY RESERVE CENTER - NIAGARA FALLS ASBESTOS BUILDING INSPECTION INDUSTRIAL LABORATORY TEST REPORT

### **Building No. 25**

| Homo. ASB<br>Area No. Y/N |         | Sample Number Room Number | Room Number | Material Description: | Date<br>Sampled | Date<br>Analyzed | Sample Results       | Percent<br>Asbestos |
|---------------------------|---------|---------------------------|-------------|-----------------------|-----------------|------------------|----------------------|---------------------|
| 1                         | NO      | NiagrFIIs-046             | 100         | Misc, GLAZING, Gray   | 10/14/04        | 10/21/04         | No Asbestos Detected | %0                  |
| -                         | 0N<br>N | NiagrFlls-047             | 100         | Misc. GLAZING. Grav   | 10/14/04        | 10/21/04         | No Asbestos Detected | %0                  |

Laboratory Test Results Table Page 1 of 1

TEST METHOD: Method for the determination of Asbestos in bulk building materials (EPA/600/R-93/116) DETECTION LIMIT: 1%



### ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

7469 WHITE PINE ROAD - RICHMOND, VA 23237 804-275-4788 FAX 804-275-4907

### **BULK ASBESTOS SAMPLE ANALYSIS SUMMARY**

| CLIENT: | Environmental Enterprise Group, Inc. | DATE OF RECEIPT:  | 19 OCT 2004              |
|---------|--------------------------------------|-------------------|--------------------------|
|         | 1345 Barracks Road                   | DATE OF ANALYSIS: | $21\ \mathrm{OCT}\ 2004$ |
|         | North Charleston, SC 29405           | DATE OF REPORT:   | $21\ \mathrm{OCT}\ 2004$ |

| CLIENT NUMBER: | 42-4515 B   |
|----------------|---|
| EHS PROJECT #: | 10-04-2872  |
| PROJECT:       | US Army Reserve Center-Niagra Falls; Building #25 |

| EHS<br><u>SAMPLE</u> : | CLIENT SAMPLE #/<br># LABORATORY GROSS D | DESCRIPTION     | % ASBESTOS                                  | OTHER MATERIALS  |  |  |
|------------------------|--|-----------------|---|------------------|--|--|
| 01                     | ARC-NiagrFlls-046/<br>Gray Caulk         |                 | Trace, <1% Chrysotile<br><1% Total Asbestos | 100% Non-Fibrous |  |  |
| 02                     | ARC-NiagrFlls-047/<br>Gray Caulk         |                 | Trace, <1% Chrysotile<br><1% Total Asbestos | 100% Non-Fibrous |  |  |
| Q                      | C SAMPLE:                                | M1-1998-2       |   |                  |  |  |
| Q                      | C BLANK:                                 | SRM 1866 Fiber  | SRM 1866 Fiberglass                         |                  |  |  |
| RI                     | EPORTING LIMIT:                          | 1% Asbestos     |   |                  |  |  |
| M                      | ETHOD:                                   | Polarized Light | Microscopy, EPA Method 600/I                | R-93/116 *       |  |  |
| A                      | NALYST:                                  | Tabitha Jamiso  | n   |                  |  |  |
|                        |  |                 |   |                  |  |  |

### Reviewed By Authorized Signatory:

Howard Varner, Laboratory Director Irma Faszewski, Quality Assurance Coordinator David Xu, MS, Senior Chemist Feng Jiang, MS, Senior Geologist Michael A. Mueller, Quality Assurance Manager

Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of Environmental Hazards Services, L.L.C. California Certification #2319 NY ELAP #11714. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), for enhanced detection capabilities) for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

\* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

| LEGEND          | NAD = no asbestos detected     |
|-----------------|--------------------------------|
|                 | SCF = suspected ceramic fibers |
| plm1.dot/07JAN2 | 2002/ MR                       |

-- PAGE 01 of 01 -- END OF REPORT --



Niagara Falls Armed Forces Reserve Center - Niagara Falls, NY (NY046) Building 26 - Storage Building

### **BUILDING 26: Storage Building**

### 1. DESCRIPTION:

Building 26 is a 2,150 square-foot building constructed in 1960. It is a metal-framed structure with metal siding and roofing. The following information was identified during the survey and from the analysis of the samples taken:

- One homogeneous area was identified during the initial survey.
- No homogeneous areas were assumed to contain asbestos.
- One of the homogeneous areas was suspected to contain asbestos and sampled to confirm.
- One of the suspected homogeneous areas was confirmed to contain asbestos.

### 2. FINDINGS:

One homogeneous area with suspected ACM was identified. Two samples were collected and analyzed. Sample results are summarized in the Laboratory Test Results table in this section. Friable asbestos was not found in any homogeneous areas.

**Confirmed ACM.** The following homogeneous area sampled was confirmed to contain asbestos:

• H-1: MISC, ROOFING, SEALER, Silver, was Non-friable and Not Damaged.

**Assumed ACM.** The following homogeneous areas were assumed to contain asbestos: **NONE** 

### 3. OBSERVATIONS:

No observations.

### 4. **RECOMMENDED ABATEMENT ACTIONS:**

Recommended actions for the following homogeneous areas:

• H-1: MISC, ROOFING, Silver: **O&M** 

### 5. RECOMMENDATIONS FOR OPERATIONS AND MAINTENANCE:

Operations and Maintenance (O&M) recommendations for confirmed and assumed homogeneous materials of ACM are found in the *Operations & Maintenance Table* of this report. The materials listed below should be maintained following the guidelines in the O&M Plan during regular maintenance and small-scale repair activities, until removed.

MISC ROOFING is Confirmed, Non-friable ACM.

H-1 (ROOFING, Silver) is located on the Roof.

| Building No. 26  | Comments  |                                 |            |  |  |
|--|---|---------------------------------|------------|--|--|
| FALLS  | Abate<br>Cost   |                                 |            |  |  |
| US ARMY RESERVE CENTER - NIAGARA FALLS<br>ASBESTOS BUILDING INSPECTION | ntity Rating Fria- Cond % Recommended / bility D Action | O&M                             |            |  |  |
| G IN -   | % O   | 0.0                             |            |  |  |
| NTE<br>NTE   | Cond  | D                               |            |  |  |
|  | Fria- (<br>bility                                       | Non                             |            |  |  |
| S B  | Rating  | 9                               |            | oort.  |  |
| RESEF  | Quantity F  | 2,500 SF                        |            | ed in this rep   |  |
| US ARMY RE<br>ASBE   |   |                                 |            | timates are not includ   |  |
| <b>BUILDING SUMMARY TABLE</b>  | Material Description                                    | Y Misc, ROOFING, SEALER, Silver | Rooms Roof | Note: Asbestos abatement cost estimates are not included in this report. |  |
|  | N,N,A   | ₩<br>×                          | Rc         |  |  |
| BU   | H- ACM<br>No Y,N,A                                      | -                               |            |  |  |
|  |   |                                 |            |  |  |

H-No= Homogenous Area Number, ACM= Asbestos Containing Material: Y=Yes, N= No, A= Assumed, TSI= Thermal System Insulation, Misc= Miscellaneous, Quantity: SF= Square Footage, LF= Linear Feet, Friability: Mod= Moderate, Condition: PD= Potential for Damage, D= Damaged, SD= Significantly Damaged, Recommended Action: O&M= Operation and Maintenance

Building Summary Table Page 1 of 1

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### US ARMY RESERVE CENTER - NIAGARA FALLS ASBESTOS BUILDING INSPECTION INDUSTRIAL LABORATORY TEST REPORT

**Building No. 26** 

| Homo.        | ASB | Homo. ASB Sample Number F | <b>Room Number</b> | Material Description: | Date              | Date             | Sample Results | Percent  |
|--------------|-----|---------------------------|--------------------|-----------------------|-------------------|------------------|----------------|----------|
| Area No. Y/N | Ň   |                           |                    |                       | Sampled           | Sampled Analyzed |                | Asbestos |
| ٢            | YES | NiagrFalls-086            | Roof               | Misc, ROOFING, Silver | 10/15/04 10/21/04 | 10/21/04         | Chrysotile     | 2%       |
| -            | YES | NiagrFalls-087            | Roof               | Misc, ROOFING, Silver | 10/15/04 10/21/04 | 10/21/04         | Chrysotile     | 2%       |

Laboratory Test Results Table Page 1 of 1

TEST METHOD: Method for the determination of Asbestos in bulk building materials (EPA/600/R-93/116) DETECTION LIMIT: 1%

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| <b>OPERATIONS</b>                       | IAINTEN             |
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# **US ARMY RESERVE CENTER - NIAGARA FALLS ASBESTOS BUILDING INSPECTION**

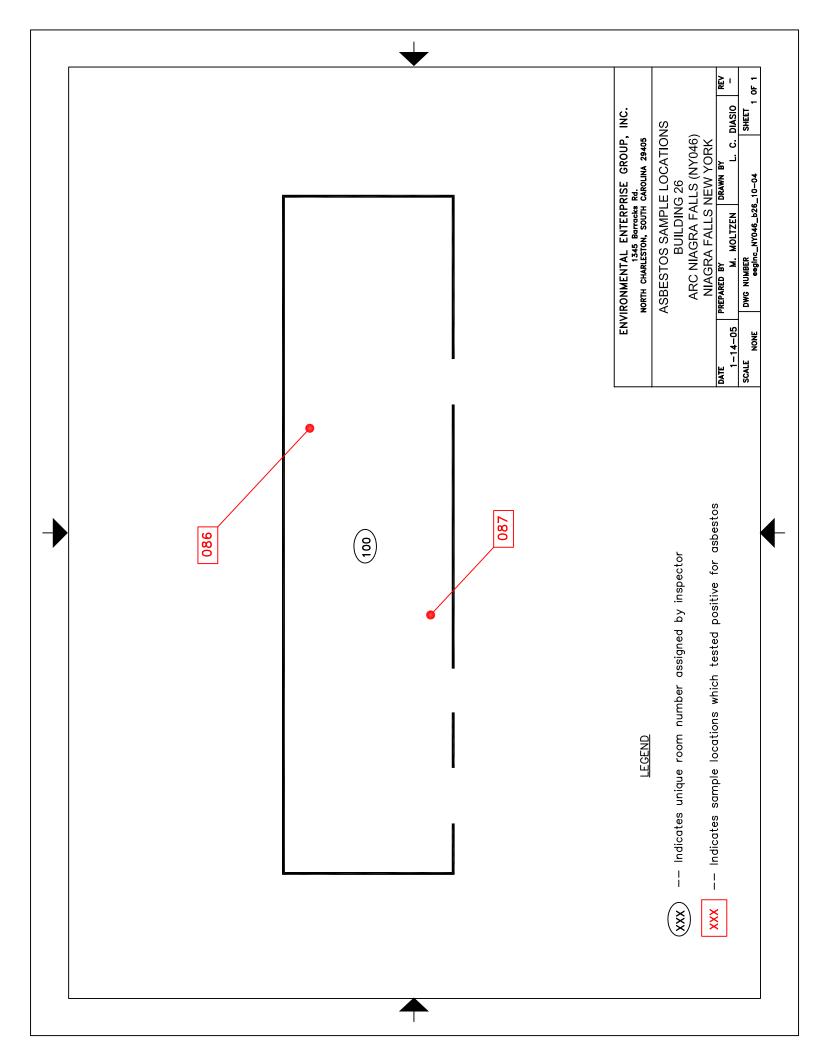
O&M

| Bldg.<br>No. | Homo<br>No. | Material Description          | Quantity | Rat-<br>ing | Fria-<br>bility | Condition   | <b>۵</b> % | Recommended<br>Action |
|--------------|-------------|-------------------------------|----------|-------------|-----------------|-------------|------------|-----------------------|
| 26           | -           | Misc, ROOFING, SEALER, Silver | 2,500 SF | 10          | Non             | Not Damaged | 0.00       | O&M                   |
|              | cations.    | Rooms Roof                    |          |             |                 |             |            |                       |

Locations: Kooms Koor

O&M Table Page 1 of 1

Homo No= Homogenous Area Number, ACM= Asbestos Containing Material, TSI= Thermal System Insulation, MISC= Miscellaneous, Quantity: SF= Square Footage, LF= Linear Feet, Friability: Mod= Moderate, Non= Non-Friable, Recommended Action: O&M= Operation and Maintenance, Refer to the Section III Operations and Maintenance Plan for standard O&M and Repair procedures.



### ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

7469 WHITE PINE ROAD - RICHMOND, VA 23237 804-275-4788 FAX 804-275-4907

### **BULK ASBESTOS SAMPLE ANALYSIS SUMMARY**

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|---------|--------------------------------------|-------------------|--------------------------|
|         | 1345 Barracks Road                   | DATE OF ANALYSIS: | $21\ \mathrm{OCT}\ 2004$ |
|         | North Charleston, SC 29405           | DATE OF REPORT:   | $21\ \mathrm{OCT}\ 2004$ |

| CLIENT NUMBER: | 42-4515 B   |
|----------------|---|
| EHS PROJECT #: | 10-04-2873  |
| PROJECT:       | US Army Reserve Center-Niagra Falls; Building #26 |

| EHS<br><u>SAMPLE</u> | CLIENT SAMPLE #/<br>E # LABORATORY GROS  | DESCRIPTION     | % ASBESTOS                         | OTHER MATERIALS |  |
|----------------------|--|-----------------|------------------------------------|-----------------|--|
| 01                   | ARC-NiagrFalls-086/<br>Silver Paint-Like |                 | 2% Chrysotile<br>2% Total Asbestos | 98% Non-Fibrous |  |
| 02                   | ARC-NiagrFalls-087/<br>Silver Paint-Like |                 | 2% Chrysotile<br>2% Total Asbestos | 98% Non-Fibrous |  |
| (                    | QC SAMPLE:                               | M2-1999-3       |                                    |                 |  |
| (                    | QC BLANK:                                | SRM 1866 Fibe   | SRM 1866 Fiberglass                |                 |  |
| F                    | REPORTING LIMIT:                         | 1% Asbestos     |                                    |                 |  |
| ľ                    | METHOD:                                  | Polarized Light | Microscopy, EPA Method 60          | 00/R-93/116 *   |  |
|                      | ANALYST:                                 | Melissa Boggs S | Steiniger                          |                 |  |
|                      |  |                 |                                    |                 |  |

### Reviewed By Authorized Signatory:

Howard Varner, Laboratory Director Irma Faszewski, Quality Assurance Coordinator David Xu, MS, Senior Chemist Feng Jiang, MS, Senior Geologist Michael A. Mueller, Quality Assurance Manager

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Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), for enhanced detection capabilities) for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

\* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

| LEGEND          | NAD = no asbestos detected     |
|-----------------|--------------------------------|
|                 | SCF = suspected ceramic fibers |
| plm1.dot/07JAN2 | 2002/ MR                       |

-- PAGE 01 of 01 -- END OF REPORT --



United States Army Reserve 77<sup>th</sup> Regional Readiness Command

Fort Totten, New York

# Storm Water Pollution Prevention Plan Update Contract Number: DNY LOS007917

# Niagara Falls USARC – NY046 (Niagara Falls, NY)

February 9, 2006 Version 2.0

Updated by:

Bowne AE&T Group 235 East Jericho Turnpike

PO Box 109 Mineola NY 11501-0109 Phone: 516-746-2350 Fax: 516-747-1396 www.bownegroup.com



| U.S. Army Reserve - 77 <sup>th</sup> Regional Readiness Command       | VERSION: | 2.0          |
|---|----------|--------------|
| Storm Water Pollution Prevention Plan for Niagara Falls USARC – NY046 | DATE:    | Feb. 9, 2006 |

# SWP3 CERTIFICATION

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, 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."

SIGNATURE:

TYPED NAME: Richard C. Ramsdell

TITLE: 77th ARIM, Facility Management Officer

TELEPHONE NUMBERS: 718-352-2091

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|---|----------|--------------|
| Storm Water Pollution Prevention Plan for Niagara Falls USARC – NY046 | DATE:    | Feb. 9, 2006 |

# **REVISION LOG**

| VERSION | DATE             | PREPARED BY  |  |
|---------|------------------|--|--|
| 2.0     | February 9, 2006 | Bowne AE&T Group, Mineola, NY                                |  |
| 1.0     |                  | U.S. Geological Survey, Water Resources Division, Reston, VA |  |

| U.S. Army Reserve - 77 <sup>th</sup> Regional Readiness Command       | VERSION: | 2.0          |
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#### ACRONYMS AND ABBREVIATIONS

| U.S. Army Reserve - 77 <sup>th</sup> Regional Readiness Command       | VERSION: | 2.0          |
|---|----------|--------------|
| Storm Water Pollution Prevention Plan for Niagara Falls USARC – NY046 | DATE:    | Feb. 9, 2006 |

| SW    | Stormwater                           |  |
|-------|--------------------------------------|--|
| SWP3  | Stormwater Pollution Prevention Plan |  |
| USARC | U.S. Army Reserve Command            |  |
| USEPA | S. Environmental Protection Agency   |  |
| USGS  | J.S. Geological Survey               |  |
| UST   | Inderground <b>St</b> orage Tank     |  |

| U.S. Army Reserve - 77 <sup>th</sup> Regional Readiness Command       | VERSION: | 2.0          |
|---|----------|--------------|
| Storm Water Pollution Prevention Plan for Niagara Falls USARC – NY046 | DATE:    | Feb. 9, 2006 |

# 1. INTRODUCTION

The Clean Water Act of 1987 (40 CFR 122) requires Federal installations, which discharge stormwater impacted by industrial activities, to implement plans to control the quality of stormwater discharges. This "*Stormwater Pollution Prevention Plan*" was developed in response to these requirements. The plan identifies sources of potential pollution, describes "*Best Management Practices*" designed to minimize pollution through prevention and source control, and provides recommended actions for this facility.

# 1.1 Facility Permit

The State of New York, in which McConnell Niagara Falls USARC/AMSA 76 resides, does have NPDES permitting authority (New York General Permit NYR00C441). Stormwater permitting in the state is handled by the New York State Department of Environment Conservation (NYSDEC), Division of Water (Albany, NY)[Stormwater Permit Manual, Thompson Publishing Group Inc., January 1995]. For more information, contact the New York State Department of Environmental Conservation (NYSDEC), Region 9 Water Engineer at (716) 851-7070.

# **1.2 Facility Description**

The Niagara Falls Armed Forces Reserve Center (USARC) and AMSA 76 are located at 9400 Porter Road (Route 182) in Niagara Falls, New York (Figure 1). Geographic coordinates for the USARC/AMSA are the following: 43° 06' 07" Latitude, 78° 57' 23" Longitude. The AMSA compound (shop and surrounding military vehicle parking areas) encompasses 5.5 acres, with an approximate elevation of 575 feet above mean sea level. Administrative, warehouse storage, POV parking, and other training areas of the USARC occupy an additional 13.8 acres (Figure 2).

The primary mission of Niagara Falls USARC/AMSA 76 is to provide organizational and limited direct support maintenance, and technical assistance for supported Army Reserve units located in the region. Maintenance conducted at the site includes support of military vehicles and related equipment that cannot be performed by Army Reserve unit personnel during regularly scheduled weekend training sessions.

The facility includes an AMSA and an OMS.

# **1.3** Plan Development

The initial plan was drafted by the U.S. Geological Survey (USGS), Water Resources Division (WRD). Information and illustrations included in the plan were developed from site inspections, and from 77th RRC and USGS databases.

# 1.4 Plan Revisions

The Niagara Falls USARC/AMSA 76 SWP3 should be updated annually or more often, as necessary, by qualified personnel from the 77th RRC or an outside contractor (FR. Vol. 57, No. 175, September 9, 1992, Part IV.C). Many elements of the plan are

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presented in maps and tables describing sites where potential pollution of stormwater can occur, stormwater pollution risks from those sites to Waters of the U.S., and best management practices (BMPs) that prevent or control stormwater pollution. Since these elements are subject to change, to facilitate the annual plan revision, good notes and sketches should be made during periodic stormwater inspections.

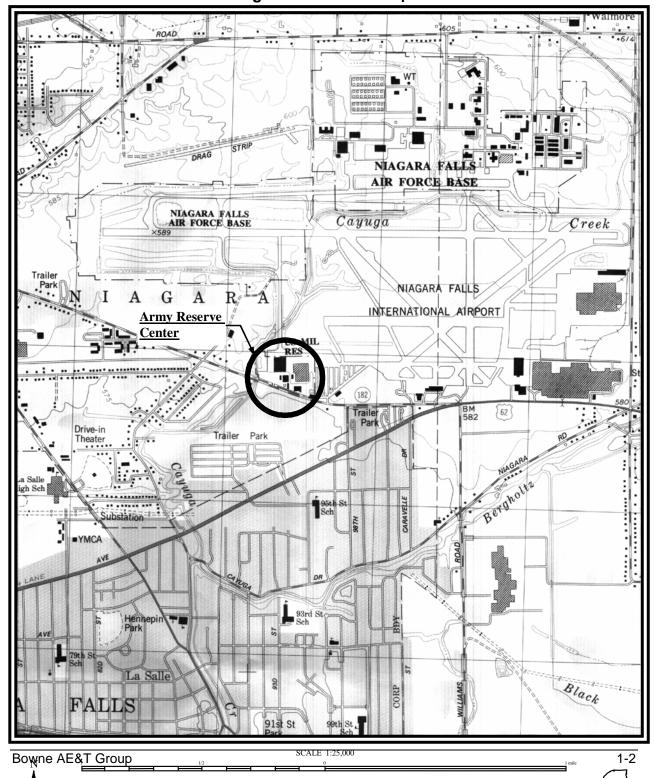


Figure 1 – Location Map

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#### 2. POLLUTION PREVENTION TEAM

The Niagara Falls USARC/AMSA 76 Pollution Prevention Team (PPT) is responsible for implementing and evaluating the effectiveness of the SWP3 at this facility. Personnel serving on the team should be officially appointed. Table 1 lists the members of the PPT and shows their respective duties.

#### Table 1 – Pollution Prevention Team

**77<sup>TH</sup> ARIM, FACILITY MANAGEMENT OFFICER, RICHARD C. RAMSDELL (718) 352-2091.** Reviews and approves the SWP3 and any modifications or updates to the plan. Coordinates with State and Federal regulators for modifications to the plan. Provides guidance and information as requested. Performs annual site compliance inspection.

NIAGARA FALLS USARC/AMSA FACILITY MANAGER, RENEE STACK (716) 298-0208. Schedules meetings of the PPT. Signs documents and certificates required in the SWP3. Has overall responsibility for ensuring that the stormwater pollution prevention program is implemented at the facility. Prepares cost estimates for implementation plans for advanced and baseline BMPs at the facility. Submits requisitions and work orders and promotes self-help initiatives. Reviews monthly stormwater inspection checklists. Serves as emergency spill coordinator for the facility when the AMSA Shop Foreman is not present. Coordinates with Shop Foreman during monthly stormwater inspections. Informs Commanding Officer and 77<sup>th</sup> RRC Facility Management Officer of problems, and equipment and training needs for the AMSA Compound.

AMSA 76 SHOP FOREMAN, CHARLES PAGE (716) 297-7200. Coordinates with Facility Manager on equipment, construction, and training needs. Oversees and delegates responsibilities for implementation of the SWP3 at the facility. Serves as official emergency spill coordinator for the facility. Conducts monthly stormwater inspections and files inspection reports for the AMSA Compound.

**NIAGARA FALLS USARC/AMSA 76 MOTORPOOL PERSONNEL.** Responsible for implementing good housekeeping and preventive maintenance practices.

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# 3. ASSESSMENT

As required by the General Permit, the site assessment includes a description of potential sources of pollutants that may be reasonably expected to add significant amounts of pollutants to stormwater discharges or which may result in the discharge of pollutants during dry weather from the facility. All activities and materials that may potentially be significant pollutant sources are identified. Pollutant sources are referenced to stormwater outfalls to aid in conducting the risk assessment, implementing BMPs, and updating the SWP3.

# 3.1 Industrial Activities

The first step in the site assessment is identification of the principal industrial activities at Niagara Falls USARC/AMSA 76 that are subject to stormwater regulations. All pollutant sources at the USARC/AMSA are directly related to (i) vehicle maintenance and washing; (ii) loading and unloading of PPMs; and (iii) exposed temporary storage of PPMs. The use of potentially polluting materials (PPMs) and generation of waste products are results of vehicle maintenance. Table 2 lists industrial activities identified at this facility. Industrial activities shown in this table are discussed in this plan.

| INDUSTRIAL ACTIVITY LOCATION         | Α | В | С | D |
|--------------------------------------|---|---|---|---|
| AMSA 76 Building                     | Х |   | Х | Х |
| Vehicle Washrack                     | Х |   |   |   |
| OMS Building                         | Х |   | Х | Х |
| Military Vehicle Parking Area (MVPA) | Х |   | Х | Х |

| Table 2 – Industrial activities | (Figure 2, Figure 3, and Figure | 4) |
|---------------------------------|---------------------------------|----|
|---------------------------------|---------------------------------|----|

#### Industrial Activity Type:

A: Motorpool areas where vehicle maintenance, washing and storage of POL occurs

B: Storage piles of materials containing PPMs exposed to precipitation and/or stormwater runoff

C: Storage areas used to accumulate hazardous wastes, either permanent or temporary

D: Sites where loading and unloading of PPMs occurs

# 3.2 Site Map

The NPDES stormwater regulations require that a facility site map be developed as part of the SWP3. Required elements of the map include locations of industrial activities, stormwater structures, and stormwater runoff drainage pathways. The Niagara Falls USARC site map (Figure 2) shows primary stormwater drainage paths and outfalls, and the location of buildings and facilities. A motorpool map and floor plan of AMSA 76 are included in Figure 3 and Figure 4, respectively. Stormwater control structures, pollutant sources, and high risk areas are labeled with site codes, which are identified in Table 4 through Table 12 and on the site maps.

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# 3.3 Drainage and Outfalls

The USARC generally drains toward the southwest to Cayuga Creek. Cayuga Creek lies approximately 200 feet west of the site, and flows southward. There is a drainage ditch located along Porter Road (along the front of the property) that flows westward to Cayuga Creek. There is also a drainage ditch along the eastern boundary of the site that flows southward into the ditch along Porter Road.

Site observation of the USARC/AMSA property identified four stormwater outfalls (OF-1, OF-2, OF-4, and OF-5) that could be regulated under NPDES stormwater regulations. Each outfall is associated with a local stormwater sewer line and network of drain inlets ["Drain Inlet (Fac. Plans)"](Figure 2). A number of inlets were identified during the site assessment on 16 November 2005, also shown on Figure 2. Site grading and the location of some inlets causes stormwater flow to bypass them and sheetflow directly into drainage ditch DD-1.

The northern portion of the facility drains toward a number of inlets of the stormwater system ST-1. System ST-1 flows westward along the northern boundary of the facility to outfall OF-1.

The western half of the MVPA (or AMSA Lot) generally drains southwestward, with a portion of the stormwater runoff entering a branch of storm sewer line ST-2, and the remainder flowing into drainage ditch DD-1. Storm sewer line ST-2 continues west until discharging into Cayuga Creek, a point designated as outfall OF-2. Regulated activities within the drainage of outfall OF-2 include exposed PPM storage and loading and unloading of PPMs (Figure 2 and Figure 3)

Outfall OF-3 (at Cayuga Creek) receives stormwater discharges from storm sewer line ST-3, which drains much of the 865<sup>th</sup> General Hospital Training Area. No regulated (vehicle maintenance) activities are conducted at this area. The 865<sup>th</sup> General Hospital practices emergency response drills at makeshift tents on the gravel lot (Figure 2).

Southern portions of the MVPA generally sheetflow southwest, with stormwater runoff either discharging into a branch of storm sewer line ST-1, or continuing southwest, where runoff discharges into storm sewer ST-4 or flows directly into drainage ditch DD-1 (photo 9). Outfall OF-4 is designated as the point where storm sewer ST-4 discharges into ditch DD-1.

Eastern portions of the MVPA (or Unit Lot) generally drain southeast, with stormwater runoff flowing into drainage ditch DD-2. Drainage ditch DD-2 continues south, where it discharges into drainage ditch DD-1, a point designated as outfall OF-5 (photo 8). Drainage ditch DD-1 discharges into Cayuga Creek at a point just north of the Porter Road Bridge. Regulated activities within the drainage of outfall OF-5 include exposed PPM storage (Figure 2 and Figure 3).

Maintenance bay areas within the AMSA Shop drain through a series of trench drains into a branch of storm sewer ST-1, which continues north and west before discharging into Cayuga Creek, a point designated as outfall OF-1. Work bay areas within the Unit Shop also drain into trench drains, which are connected through a sump into a branch

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of storm sewer line ST-2. Regulated activities at the AMSA and Unit shops include vehicle maintenance, exposed PPM storage, and loading/unloading (Figure 4).

The Vehicle Washrack (3A) drains through a single inlet drain into an oil/water separator and local sanitary sewer line S-2. Regulated activities within the washrack include vehicle washing and steam cleaning (Figure 3).

According to facility engineering plans, a number of interior building areas drain directly or indirectly into local stormwater sewer systems. The roof of the National Guard Maintenance Hangar (10) drains directly into the stormwater system. The floor of the AMSA Building (1, 2) has been regraded, pitching north toward a trough, which leads into an oil water separator. The Department of Public Works (DPW) building also drains into an oil/water separator, prior to discharging into the local sanitary sewer. Of this group, only the AMSA Building contains regulated industrial activities (Figure 2, Figure 3, and Figure 4).

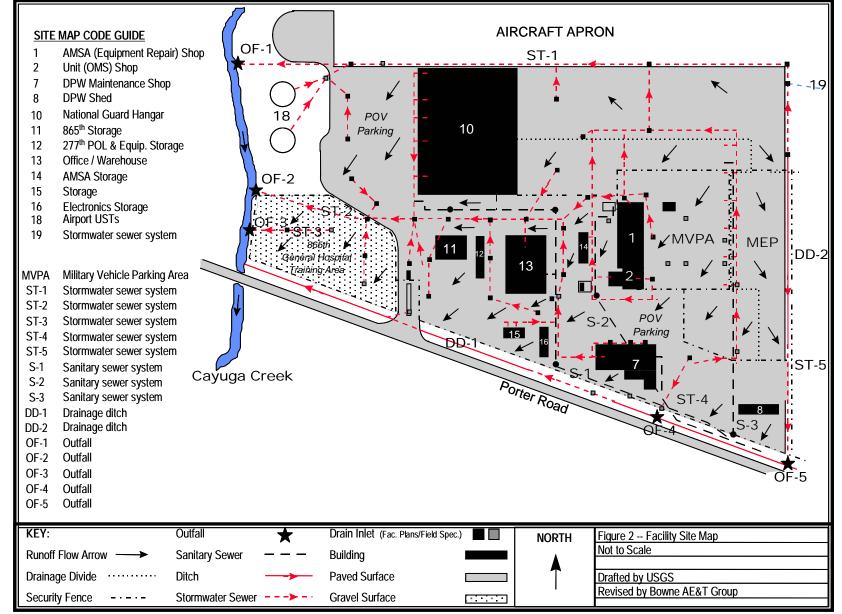
The Facility included a stormwater detention basin that has been removed from the site. The area, located near the southeast corner of the site, has been regraded and is now part of the parking area.

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| SITE<br>MAP<br>CODE | OUTFALL<br>LOCATION                                     | OUTFALL TYPE  | INDUSTRIAL<br>ACTIVITY<br>DRAINED           | RECEIVING<br>WATERS |
|---------------------|---|---|---|---------------------|
| OF-1                | Approximately 950<br>feet northwest of the<br>AMSA Shop | Point at which<br>stormwater sewer<br>line ST-1<br>discharges into<br>Cayuga Creek        | Vehicle<br>maintenance,<br>storage, loading | Cayuga Creek        |
| OF-2                | Approximately 850<br>feet west of the<br>AMSA Shop      | Point at which<br>stormwater sewer<br>line ST-2<br>discharges into<br>Cayuga Creek        | Storage, loading                            | Cayuga Creek        |
| OF-3                | Approximately 825<br>feet west of the<br>AMSA Shop      | Point at which<br>stormwater sewer<br>line ST-3<br>discharges into<br>Cayuga Creek        | None  | Cayuga Creek        |
| OF-4                | Approximately 300<br>feet south of the<br>OMS           | Point at which<br>stormwater sewer<br>line ST-4<br>discharges into<br>drainage ditch DD-1 | Vehicle storage                             | Cayuga Creek        |
| OF-5                | Approximately 525<br>feet southeast of the<br>OMS       | Point at which<br>stormwater sewer<br>line ST-5<br>discharges into<br>drainage ditch DD-1 | Vehicle storage                             | Cayuga Creek        |

Table 3 – Stormwater outfalls (Figure 2)

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#### Figure 2 – USARC Facility Site Map

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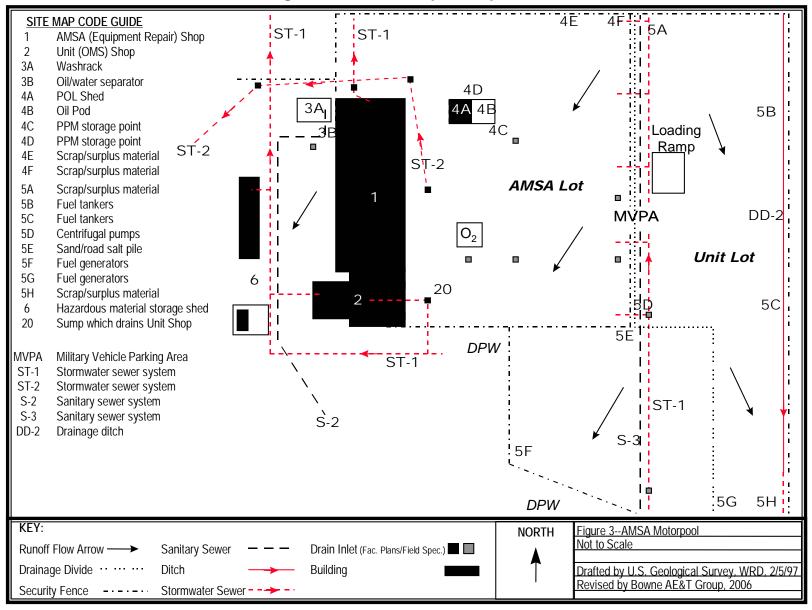
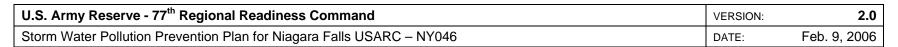
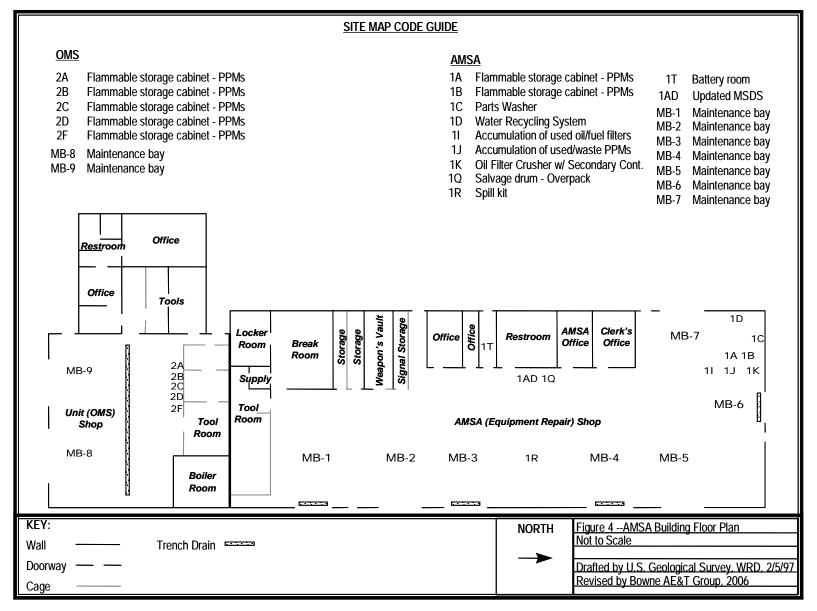


Figure 3 – AMSA Shop Motorpool



#### Figure 4 – AMSA Building Floor Plan



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# 3.4 Structures

Structures designed to control, direct, or treat stormwater runoff from the USARC/AMSA facility are listed in Table 4 and shown in Figure 2 and Figure 3. Generally, stormwater discharges flow freely through local stormwater sewer lines (ST-1 thru ST-5) and drainage ditches (DD-1 and DD-2) into Cayuga Creek, which is located along the west boundary of the USARC.

| Table 4 – Structures to control stormwater | pollution (F | igure 2 and Figure 3)  |
|--|--------------|------------------------|
|  |              | iguic E and i iguic 0) |

| SITE MAP CODE | STRUCTURE<br>DESCRIPTION | LOCATION                      | OUTFALL          |
|---------------|--------------------------|-------------------------------|------------------|
| DD-1, DD-2    | Drainage ditch/swale     | Facility-wide                 | OF-4 and<br>OF-5 |
| S-1 thru S-3  | Sanitary Sewer           | Washrack, Hangar, DPW<br>Shop | None             |

# 3.5 Water Bodies

Stormwater runoff from Niagara Falls USARC/AMSA 76 discharges through local stormwater sewer lines (ST-1 thru ST-5) and drainage ditches (DD-1 and DD-2) into Cayuga Creek, which flows southward along the west boundary of the facility. Cayuga Creek crosses Porter Road and continues approximately two miles south before discharging into the Niagara River (Figure 1).

#### Table 5 – Water bodies that could be impacted by stormwater runoff (Figure 1 and Figure 2)

| RECEIVING WATER<br>BODY | ТҮРЕ             | LOCATION                                 | OUTFALL            |
|-------------------------|------------------|--|--------------------|
| Cayuga Creek            | Perennial Stream | Approximately 850 feet<br>west of AMSA   | OF-1 thru OF-<br>5 |
| Niagara River           | Perennial River  | Approximately 2 miles south of the USARC | OF-1 thru OF-<br>5 |

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#### 3.6 **Potentially Polluting Materials**

Exposed potentially polluting materials (PPMs) include any hazardous materials that contact precipitation and/or stormwater runoff during their use at the facility (i.e., storage, active use, and/or loading/ unloading). AMSA and unit personnel maintain inventories of PPMs located at the facility. The inventories are continuously updated and include the location of the material and approximate quantity on hand. Table 6 is an excerpt from those inventories, emphasizing exposed PPMs. Exposure to stormwater runoff commonly occurs due to a lack of cover and containment during loading/unloading and storage of PPMs.

#### Table 6 – Potentially Polluting Materials (Figure 2, Figure 3 and Figure 4)

| Buildin |                     |                                      | Manufacture |          | Containe |                  |
|---------|---------------------|--------------------------------------|-------------|----------|----------|------------------|
| g       | Location            | PPM                                  | r           | Quantity | r        | Stock_NSN_Num    |
| OMS     | Pol Shed            | 5 Gallon Fuel Can                    |             | 28       | 5 gallon |                  |
|         |                     | 5 Gallon Cleaning                    |             |          |          |                  |
| OMS     | Pol Shed            | Compound Solvent                     |             | 2        | 5 gallon | 7930-01-350-7034 |
| OMS     | Pol Shed            | 5 Gallon Carbon<br>Removing Compound |             | 2        | 5 gallon | 6850-00-965-2332 |
| OMS     | Pol Shed            | 5 Gallon GAA                         |             | 2        | 5 gallon | 9150-01-197-7692 |
| OMS     | Pol Shed            | 5 Gallon Aircraft Grease             |             | 2        | 5 gallon | 9150-00-935-5851 |
|         |                     | 5 Gallon Brake Fluid,                |             |          |          |                  |
| OMS     | Pol Shed            | Silicone                             |             | 11       | 5 gallon | 9150-05-123-3152 |
| OMS     | Pol Shed            | 5 Gallon 30W Lube Oil                |             | 14       | 5 gallon | 9150-00-188-9858 |
| OMS     | Pol Shed            | 5 Gallon Anti-Freeze                 |             | 5        | 5 gallon | 6850-01-464-9137 |
| OMS     | Pol Shed            | 5 Gallon 15/40W Lube<br>Oil          |             | 14       | 5 gallon | 9150-01-152-4118 |
|         | 1 of officia        | 5 Gallon Hydraulic Fluid,            |             |          | o ganon  |                  |
| OMS     | Pol Shed            | Dextron III                          |             | 10       | 5 gallon | 9150-00-657-4959 |
| OMS     | Pol Shed            | 5 Gallon 80/90W Lube<br>Oil          |             | 9        | 5 gallon | 9150-01-035-5393 |
| OMS     | Pol Shed            | 5 Gallon Methonal                    |             | 4        | 5 gallon | 6810-00-275-6010 |
| OMS     | Pol Shed            | 5 Gallon 10W Lube Oil                |             | 4        | 5 gallon | 9150-00-186-6668 |
| OMS     | Pol Shed            | 55 Gallon 10W Lube Oil               |             | 1        | 5 gallon | 9150-00-191-2772 |
| OMS     | 277th<br>Cabinet #3 | Rubbing Alcohol                      |             | 1        | bottle   |                  |
| OMS     | 277th<br>Cabinet #3 | Degreaser                            | Grez-Off    | 6        | bottle   |                  |
| ONIO    | 277th               | Degreaser                            |             | 0        | bottic   |                  |
| OMS     | Cabinet #3          | Silicone Compound                    |             | 4        | can      | 6850-00-880-7616 |
| OMS     | 277th<br>Cabinet #3 | Petroleum Jelly                      |             | 2        | tub      |                  |
|         | 277th               |                                      |             |          |          |                  |
| OMS     | Cabinet #3          | Anti-Freeze                          |             | 1        | bottle   |                  |
| OMS     | 277th<br>Cabinet #3 | Graphite Grease                      |             | 1        | can      | 9150-00-190-0918 |
|         | 277th               |                                      |             | 1        |          |                  |
| OMS     | Cabinet #3          | White Grease                         |             | 1        | can      |                  |
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|         | 0774                |                                       | 1              |      | I          |                 |
| OMS     | 277th<br>Cabinet #3 | 15/40W Lube Engine Oil                |                | 3    | 7 000      | 9150-01-152-411 |
| UN3     | 277th               | Hydraulic Fluid, Auto                 |                | 3    | 7 can      | 9150-01-152-411 |
| OMS     | Cabinet #3          | Trans                                 |                | 2    | 7          | 9150-00-698-238 |
| UNIS    | 277th               | Dextron III Auto                      |                | Z    | 7 can      | 9150-00-696-236 |
| OME     |                     | Transmission Fluid                    |                | 2    | 1          | 0150 01 252 470 |
| OMS     | Cabinet #3          |                                       |                | 2    | 1 can      | 9150-01-353-479 |
| OME     | 277th<br>Cabinet #3 | Dranana                               |                |      | 2 hottle   |                 |
| OMS     |                     | Propane                               |                |      | 2 bottle   |                 |
| 0.40    | 277th               | Degreeser                             |                |      |            | 00004           |
| OMS     | Cabinet #3          | Degreaser                             |                |      | 2 bottle   | 20691           |
| 0.40    | 277th               | Oden Controllent                      |                |      |            | 05504           |
| OMS     | Cabinet #3          | Odor Controllant                      |                |      | 2 bottle   | 25564           |
| 0.10    | 277th               |                                       |                | _    |            | 0450 04 407 700 |
| OMS     | Cabinet #3          | GAA, Tube                             |                | 5    | 0 tube     | 9150-01-197-769 |
| ~ ~     | 277th               |                                       |                |      |            |                 |
| OMS     | Cabinet #2          | Battery Protector                     |                |      | 2 can      |                 |
| ~       | 277th               |                                       |                |      |            |                 |
| OMS     | Cabinet #2          | Degreaser                             |                |      | 2 bottle   |                 |
|         | 277th               |                                       |                |      |            |                 |
| OMS     | Cabinet #2          | Penetrating Lubricator                |                |      | 3 can      | 6810-00-293-681 |
|         | 277th               | Gear and Chain                        |                |      |            |                 |
| OMS     | Cabinet #2          | Lubricant                             |                |      | 2 can      | A00380          |
|         | 277th               |                                       |                |      |            |                 |
| OMS     | Cabinet #2          | Brake Parts Cleaner                   |                |      | 1 can      |                 |
|         | 277th               | Heavy Duty Grease,                    |                |      |            |                 |
| OMS     | Cabinet #2          | Clear                                 |                |      | 1 can      |                 |
|         | 277th               |                                       |                |      |            |                 |
| OMS     | Cabinet #2          | WD-40                                 | WD-40          |      | 5 can      | 8030-00-293-553 |
|         | 277th               |                                       |                |      |            |                 |
| OMS     | Cabinet #2          | Adhesive                              |                |      | 7 can      | 8040-00-264-384 |
|         | 277th               |                                       |                |      |            |                 |
| OMS     | Cabinet #2          | GAA                                   |                |      | 1 can      | 8150-01-197-768 |
|         | 277th               |                                       |                |      |            |                 |
| OMS     | Cabinet #2          | Break Free Lubricant                  | Break Free     |      | 2 bottle   | 9150-01-054-645 |
|         | 277th               |                                       |                |      |            |                 |
| OMS     | Cabinet #2          | Charcoal Lighter Fluid                |                |      | 1 can      |                 |
|         | 277th               | Black Walnut Oil Finish               |                |      |            |                 |
| OMS     | Cabinet #2          | Stain                                 |                |      | 1 can      |                 |
|         | 277th               |                                       |                |      |            |                 |
| OMS     | Cabinet #2          | Paint Thinner                         |                |      | 1 bottle   | 8010-00-837-796 |
|         | 277th               | Hydraulic Fluid, Trans                |                |      |            |                 |
| OMS     | Cabinet #2          | Auto                                  |                |      | 1 5 gallon | 9150-00-657-495 |
|         | 277th               | Lubricating Oil, Gear                 |                |      |            |                 |
| OMS     | Cabinet #2          | 80/90W                                |                |      | 2 5 gallon | 9150-01-035-539 |
|         | 277th               |                                       |                |      |            |                 |
| OMS     | Cabinet #2          | Alcohol, Denatured                    |                |      | 1 5 gallon | 6810-00-201-090 |
|         | 277th               | ,                                     |                |      |            |                 |
| OMS     | Cabinet #2          | Over All Primer                       |                |      | 4 can      | 8010-00-616-918 |
|         | 277th               |                                       |                |      |            |                 |
| OMS     | Cabinet #2          | Primer                                | Rust-Fix       |      | 1 can      |                 |
| 50      | 277th               |                                       |                |      |            |                 |
| OMS     | Cabinet #2          | Gray Spray Paint                      |                |      | 4 can      | 8010-00-935-708 |
| 0.010   | 277th               |                                       |                |      |            |                 |
| OMS     | Cabinet #2          | Black Spray Paint                     |                |      | 3 can      | 8010-00-848-927 |

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| OMS | 277th<br>Cabinet #2 | Green Spray Paint                  |           | 5 | can      | 8010-00-848-9272 |
|-----|---------------------|------------------------------------|-----------|---|----------|------------------|
| OMS | 277th<br>Cabinet #2 | White Spray Paint                  |           | 1 | can      | 7510-00-419-9564 |
| OMS | 277th<br>Cabinet #2 | Multi-Pur Thread Seal              | Multi-Pur | 1 | tub      |                  |
| OMS | 277th<br>Cabinet #2 | Celolite Gold Enamel               | Celolite  | 1 | can      |                  |
| OMS | 277th<br>Cabinet #2 | Rubber Adhesive                    |           | 1 | can      | 8040-00-266-7429 |
| OMS | 277th<br>Cabinet #2 | Component B                        |           | 1 | can      | MIC-C-46168-9    |
| OMS | 277th<br>Cabinet #2 | High Gloss Enamel,<br>Blue         |           | 1 | can      |                  |
| OMS | 277th<br>Cabinet #2 | Blue, Green, Yellow,<br>Gray Paint | Rustoleum | 4 | can      |                  |
| OMS | 277th<br>Cabinet #2 | Carb Medic                         |           | 1 | can      |                  |
| OMS | 277th<br>Cabinet #2 | Varnish Stain Poly                 |           | 1 | can      |                  |
| OMS | 277th<br>Cabinet #2 | Patio and Floor Paint              |           | 1 | can      |                  |
| OMS | 277th<br>Cabinet #2 | Fuel Engine Primer                 |           | 3 | can      | 6850-01-082-6783 |
| OMS | 277th<br>Cabinet #2 | Plastic Safe                       |           | 1 | can      |                  |
| OMS | 277th<br>Cabinet #2 | Ultra Copper                       |           | 2 | tube     |                  |
| OMS | 277th<br>Cabinet #2 | Battery Cleaner                    |           | 2 | can      |                  |
| OMS | 277th<br>Cabinet #1 | Grease ACFT                        |           | 2 | can      | 9150-00-145-0268 |
| OMS | 277th<br>Cabinet #1 | Anti-Seize Compound                |           | 1 | can      | 8030-00-251-3980 |
| OMS | 277th<br>Cabinet #1 | Simple Green                       |           | 1 | bottle   |                  |
| OMS | 277th<br>Cabinet #1 | Silicone                           |           | 1 | tub      | 9150-01-102-9455 |
| OMS | 277th<br>Cabinet #1 | Lubricating Oil, Gear              |           | 1 | can      | 9150-01-035-5392 |
| OMS | 277th<br>Cabinet #1 | Hydraulic Fluid, Trans<br>Auto     |           | 1 | can      | 9150-00-698-2382 |
| OMS | 277th<br>Cabinet #1 | Degreaser                          | Grez-Off  | 1 | bottle   |                  |
| OMS | 277th<br>Cabinet #1 | Turpentine                         |           | 1 | bottle   |                  |
| OMS | 277th<br>Cabinet #1 | Paint Thinner                      |           | 1 | bottle   |                  |
| OMS | 277th<br>Cabinet #1 | Air Compressor Oil                 |           | 1 | bottle   |                  |
| OMS | 277th<br>Cabinet #1 | Hydraulic Fluid, Trans             |           | 2 | 5 gallon | 9150-00-657-4959 |
| OMS | 277th<br>Cabinet #4 | Fire Extinguisher                  |           | 8 | bottle   |                  |

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| 0140        | 277th        |                         |          |     | h a til a    | 0050 00 000 0075 |
|-------------|--------------|-------------------------|----------|-----|--------------|------------------|
| OMS         | Cabinet #4   | Cleansing Compound      |          | 444 | bottle       | 6850-00-926-2275 |
| AMSA-<br>76 | Boint Lookor | Red Spray Daint         |          | 5   | 000          |                  |
| AMSA-       | Paint Locker | Red Spray Paint         |          | 5   | can          |                  |
| 76          | Paint Locker | White Spray Paint       |          | 1   | 60n          |                  |
| AMSA-       |              |                         |          | I   | can          |                  |
| 76          | Paint Locker | Gloss Blue Spray Paint  |          | 1   | 00n          |                  |
| AMSA-       | Faill LUCKEI | Gloss blue Spray Faint  |          |     | can          |                  |
| 76          | Paint Locker | Olive Dreb Spray Daint  |          | 4   | 000          |                  |
| AMSA-       | Faill LUCKEI | Olive Drab Spray Paint  |          | 4   | can          |                  |
| 76          | Paint Locker | Gray Spray Paint        |          | 1   | 00n          |                  |
| AMSA-       | Faill LUCKEI | Gray Spray Paint        |          |     | can          |                  |
| 76          | Paint Locker | Flat Black Spray Paint  |          | 4   | 00n          |                  |
| AMSA-       | Faill LUCKEI | Flat Black Splay Failit |          | 4   | can          |                  |
| 76          | Paint Locker | Vollow Sprov Doint      |          | 1   | 000          |                  |
| AMSA-       | Faill LUCKEI | Yellow Spray Paint      |          | 1   | can          |                  |
|             | Doint Lookor | Rustaton Spray Daint    | Bustatan | 1   |              |                  |
| 76          | Paint Locker | Ruststop Spray Paint    | Ruststop | 1   | can          |                  |
| AMSA-       | Deintleeker  | No Lead Red Spray       |          |     |              |                  |
| 76          | Paint Locker | Paint                   |          | 3   | can          |                  |
| AMSA-       | Deintleeker  | Correy Cleaner Dettles  |          |     | hattla       |                  |
| 76          | Paint Locker | Spray Cleaner Bottles   |          | 4   | bottle       |                  |
| AMSA-       | Deintleeker  |                         |          |     | aclier       |                  |
| 76          | Paint Locker | Wall Primer             |          | 1   | gallon       |                  |
| AMSA-       | Delether     |                         |          |     |              |                  |
| 76          | Paint Locker | Black, No Skid          |          | 1   | gallon       |                  |
| AMSA-       | Deintleeleen | Oness                   |          |     |              |                  |
| 76          | Paint Locker | Gray                    |          | 1   | quart        |                  |
| AMSA-       | Deintlesten  | Windshield Washer       |          |     |              |                  |
| 76          | Paint Locker | Fluid                   |          | 2   | case         |                  |
| AMSA-       | Deintleeker  | Dottom / Doint          |          |     | aclier       |                  |
| 76          | Paint Locker | Battery Paint           |          | 1   | gallon       |                  |
| A N A C A   | POL          |                         |          |     |              |                  |
| AMSA-       | Storage      | CLP                     |          | 1   | gellen       |                  |
| 76          | Area         | GLP                     |          | 1   | gallon       |                  |
| AMSA-       | POL          |                         |          |     |              |                  |
|             | Storage      | Anti Eroozo             |          | 3   | gallan       |                  |
| 76          | Area<br>POL  | Anti-Freeze             |          | 3   | gallon       |                  |
|             |              |                         |          |     |              |                  |
| AMSA-<br>76 | Storage      | Anti-Freeze             |          | 1   | 5 gallon     |                  |
| 10          | Area<br>POL  |                         |          |     | 5 gallon     |                  |
| AMSA-       | Storage      |                         |          |     | sprav        |                  |
| 76          | Area         | Moly Lube               |          | 3   | spray<br>can |                  |
| 10          | POL          |                         |          | 3   | Call         |                  |
| AMSA-       | Storage      |                         |          |     |              |                  |
| 76          | Area         | Penetrating Fluid       |          | 2   | can          |                  |
| 10          | POL          |                         |          | 2   | Can          |                  |
| AMSA-       | Storage      |                         |          |     |              |                  |
| 76          | Area         | Anti-Seize              |          | 3   | can          |                  |
| 10          | POL          |                         |          | 3   | Can          |                  |
| AMSA-       | Storage      |                         |          |     |              |                  |
| 76          | Area         | 15/40                   |          | 2   | quart        |                  |
| 10          | /1100        | 10/10                   |          | 2   | Yuuri        |                  |

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|   |                |                             |                 |       |            |                |
|   | POL            |                             |                 |       |            |                |
| AMSA-   | Storage        |                             |                 |       |            |                |
| 76  | Area           | Graphite Dry Lube           |                 |       | 1 can      |                |
|   | POL            |                             |                 |       |            |                |
| AMSA-   | Storage        |                             |                 |       |            |                |
| 76  | Area           | Isopropyl Alcohol           |                 |       | 1 can      |                |
|   | POL            |                             |                 |       |            |                |
| AMSA-   | Storage        |                             |                 |       |            |                |
| 76  | Area           | Grease                      |                 |       | 4 case     |                |
|   | POL            |                             |                 |       | 1 0000     |                |
| AMSA-   | Storage        |                             |                 |       |            |                |
| 76  | Area           | Hydraulic Fluid             |                 |       | 7 quarts   |                |
| 70  | POL            |                             |                 |       | r quarts   |                |
|   |                |                             |                 |       |            |                |
| AMSA-   | Storage        |                             |                 |       |            |                |
| 76  | Area           | Hydraulic Fluid             |                 |       | 2 gallon   |                |
|   | POL            |                             |                 |       |            |                |
| AMSA-   | Storage        |                             |                 |       |            |                |
| 76  | Area           | Dextron III                 |                 |       | 1 5 gallon |                |
|   | POL            |                             |                 |       |            |                |
| AMSA-   | Storage        |                             |                 |       |            |                |
| 76  | Area           | 30W Oil                     |                 |       | 1 5 gallon |                |
|   | POL            |                             |                 |       |            |                |
| AMSA-   | Storage        |                             |                 |       |            |                |
| 76  | Area           | 90W Oil                     |                 |       | 1 5 gallon |                |
|   | POL            |                             |                 |       | e ganen    |                |
| AMSA-   | Storage        |                             |                 |       |            |                |
| 76  | Area           | 40W Oil                     |                 |       | 1 5 gallon |                |
| 70  | POL            | 4000 011                    |                 |       | 1 J gallon |                |
| AMSA-   |                |                             |                 |       |            |                |
|   | Storage        | Dorto Wesher Coop           |                 |       |            |                |
| 76  | Area           | Parts Washer Soap           |                 |       | 1 5 gallon |                |
|   | POL            |                             |                 |       |            |                |
| AMSA-   | Storage        |                             |                 |       |            |                |
| 76  | Area           | Silicone Brake Fluid        |                 |       | 1 5 gallon |                |
|   | 865th          |                             |                 |       |            |                |
|   | Cabinet        | Solder Paste                | Coppermate      |       | 4 oz.      |                |
|   | 865th          |                             |                 |       |            |                |
|   | Cabinet        | Solder Flux                 |                 |       | 5 4 oz.    | 343900-255-456 |
|   | 865th          |                             |                 |       |            |                |
|   | Cabinet        | Flux Brazing                |                 |       | 2 10 oz.   | 243900-944-839 |
|   | 865th          |                             |                 |       |            |                |
|   | Cabinet        | Oil Base Paint              |                 |       | 9 gallon   |                |
|   | 865th          |                             |                 |       |            |                |
|   | Cabinet        | Spray Paint                 | So Sure         | 1     | 7 10 oz.   |                |
|   | 865th          |                             |                 | I     |            |                |
|   | Cabinet        | Lube oil                    |                 |       | 1 quart    |                |
|   | 865th          |                             |                 |       | i quait    |                |
|   |                | Class Classer               |                 |       | 0 07       |                |
|   | Cabinet        | Glass Cleaner               |                 |       | 8 oz.      |                |
|   | 865th          |                             |                 |       |            |                |
|   | Cabinet        | Lighter Fluid               |                 |       | 3 quart    |                |
|   | 865th          |                             |                 |       |            |                |
|   | Cabinet        | Gasket Spray                |                 |       | 2 9 oz.    |                |
|   | 865th          |                             |                 |       |            |                |
|   | Cabinet        | Penetrating Fluid           | So Sure         |       | 2 8 oz     |                |
|   | 865th          |                             |                 |       |            |                |
|   | Cabinet        | Unlabeled Spray Bottle      |                 |       | 1 bottle   |                |

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|            | 865th        | I                                      |                  |        |         | I            |
|            | Cabinet      | Spr-tool Crown                         |                  | 13     | oz.     |              |
|            | 865th        |  |                  |        |         |              |
|            | Cabinet      | Fuel Injector Cleaner                  |                  | 8      | oz.     |              |
|            | 865th        |  |                  |        |         |              |
|            | Cabinet      | Propane Fuel                           |                  | 16     | oz.     |              |
|            | 865th        |  |                  |        |         |              |
|            | Cabinet      | Insecticide                            |                  | 4      | oz.     |              |
|            | 865th        |  |                  |        |         |              |
|            | Cabinet      | Repellant                              | Permanone        | 6      | oz.     |              |
|            | 865th        |  |                  |        |         |              |
|            | Cabinet      | Anti-Seize Compound                    |                  | 1      | pint    |              |
|            | 865th        |  |                  |        |         |              |
|            | Cabinet      | Break Free Lubricant                   | Break Free       | 2      | oz.     |              |
|            | 865th        |  |                  |        |         |              |
|            | Cabinet      | Isopropyl Alcohol                      |                  | 6      | oz.     |              |
|            | 865th        |  |                  |        |         |              |
|            | Cabinet      | Anti-Freeze                            |                  | 2      | 12 oz.  |              |
|            | 865th        |  |                  |        |         |              |
|            | Cabinet      | Coater                                 |                  |        |         | 4130-00-860  |

# 3.7 Significant Spills and Leaks

There have been no significant spills or leaks during the last three years at Niagara Falls USARC/AMSA 76.

# 3.8 Potential Sources of Pollutants

An inventory of areas at Niagara Falls USARC/AMSA 76 where industrial activities could potentially pollute stormwater runoff was compiled from existing facility plans, staff interviews, and field reconnaissance.

#### 3.8.1 Fueling/Refueling

Fueling for military vehicles does not occur at Niagara Falls USARC/AMSA 76. Only occasional emergency fueling of vehicles from 5-gallon jerry cans occurs at the vehicle parking areas or in the AMSA.

At the time of the site investigation (16 November 2005), three fueling tankers were parked in the MVPA. All three tankers were empty.

#### 3.8.2 Vehicle Maintenance and Washing

Maintenance of vehicles and equipment primarily occurs inside the AMSA Building, within nine service bays (MB-1 thru MB-9). Bays MB-1 thru MB-7, known as the AMSA (photos 2&12) (or Equipment Repair) Shop (1), are operated and maintained by AMSA staff; bays MB-8 and MB-9, known as the Unit (or OMS) (photo 1) Shop (2), are utilized by the units. AMSA 76 staff and unit personnel conduct organizational (i.e., servicing oil Bowne AE&T Group 3-14

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filters and fuel filters, conducting minor oil changes, replacing small parts) and limited direct support (i.e., servicing hydraulic system seals and spot painting) maintenance. Military equipment serviced at the AMSA by motorpool staff include CUCVs, cargo trucks, HMMWVs, 2.5, 5 and 10 ton trucks, forklifts, fuel generators, trailers, low-boys, fueling tankers, and tractor trailers. Maintenance on such vehicles and equipment may be conducted during the week by AMSA personnel or on drill weekends by Reservists. All major work, including servicing of engines and transmissions, is delegated to the Support Maintenance Activity Shop at Fort Drum. Army Reserve units operating at the USARC include the 277<sup>th</sup> Quartermaster Company and the 865<sup>th</sup> General Hospital. AMSA staff and unit personnel operate separate offices and supply cages (Figure 4).

Neat, orderly conditions, adequate work space, a spill containment kit, sorbent, sorbent socks and updated material safety data sheets were observed in the shop. Spills and leaks are treated with sorbent, which is collected and stored as hazardous waste. Work bay floors are routinely swept (by an automotive sweeper) and any residue is run through the oil/water separator that is connected to the sanitary sewer system.

The AMSA Shop work bays drain into a series of grated trench drains that have been plugged so that any liquid in the drains would be discharged into the oil/water separator and the sanitary sewer system.

No vehicle maintenance is conducted at the Military Vehicle Parking Area (MVPA) (photos 4, 6&7). Upon reaching the AMSA Compound, incoming vehicles are immediately inspected for leaks. Drip pans are placed under any vehicle with a leak. No drip pans were noted in the MVPA.

Military vehicle and equipment washing and steam cleaning occurs at the Vehicle Washrack (3A). The rack, which is equipped with concrete curbing, slopes eastward into a concrete box drain. Washwater discharges continue through the drain into an oil/water separator and the local sanitary sewer system.

Unregulated vehicle and equipment maintenance is conducted at the DPW Maintenance Shop (7), located south of the AMSA. The shop provides custodial support for facility buildings and grounds at supported Reserve Centers throughout the region, including Niagara Falls USARC.

| SITE<br>MAP<br>CODE | LOCATION             | ACTIVITY TYPE          | РРМ   | OUTFALL |
|---------------------|----------------------|------------------------|---|---------|
| 1 and 2             | AMSA/Unit<br>Shops   | Vehicle<br>maintenance | Paint, solvent, lube oil,<br>grease, detergent, antifreeze,<br>sulfuric acid, brake fluid | OF-1    |
| 3                   | Vehicle Wash<br>Area | Vehicle washing        | POL residues  | None    |

Table 7 – Vehicle maintenance and washing (Figure 2, Figure 3 and Figure 4)

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#### 3.8.3 Loading/Unloading

Exposed loading and unloading of PPMs occurs primarily at the AMSA Building (1 and 2) and POL shed. Loading and unloading of smaller items, including those of 5 gallons or less, is conducted by hand. Larger containers (55-gallons) are usually transferred by forklift.

New PPMs utilized at the AMSA Shop are generally stored at the shop POL shed, located at the MVPA (photo 7). The shed consists of two parts; one fully enclosed, and the other, open-sided and covered. Room 4A houses much of the new product, including lube oil, hydraulic fluid, fuel, grease, and solvent. Area 4B, which is curbed, consists of a 600-gallon waste oil tank and other collected used materials (photo 2). Areas outside the shed, yet fully enclosed and containing secondary containment, are also used for storing new and used PPMs, including oil, fuel, and antifreeze. As a result, exposed loading and unloading is conducted at any outside areas around the shed. No spill kits or other equipment are located nearby.

Most PPMs in use within the AMSA Shop are temporarily stored in/around flammable storage cabinets at the northwest corner of the shop (photo 11). Items stored within the cabinets include lube oil, hydraulic fluid, antifreeze, sulfuric acid, solvent, paint, and Small quantities of hazardous products are also stored within the bays, grease. including degreaser, penetrating oil, dry cleaning solvent, spray paint, diesel, and deicing fluid. Bulk POL products, mostly in 55-gallon containers, are stored on the floor or in the cabinet at the northwest corner of the shop. Other areas are used for the temporary collection, processing, or recycling of used PPMs. Used antifreeze is drained and collected into 5 and 55-gallon drums at the north end of the shop and is saved for Other waste products are also temporarily accumulated, before being recycling. removed to the POL shed, notably motor oil, oil/fuel filters, brake fluid, diesel, and antifreeze. Many of these containers rest directly on the shop floor or on metal shelving near the bay MB-6 access door. Loading and unloading of products utilized within the AMSA maintenance bays generally occurs in/around shop storage areas and at the bay access doors, as new and used products are being transferred between the shop and POL shed. Spill kits and equipment are located nearby.

Other PPMs are stored and utilized within the Unit (OMS) Shop service bays (MB-8 and MB-9), most within a series of flammable cabinets located at the shop's north end (photo 15). Such materials include lube oil, paint, antifreeze, grease, ATF, brake fluid, and solvent. Loading and unloading of stored PPMs is conducted in/around the flammable cabinets or at the bay access doors. In either case, spills/leaks of such materials pose a risk to local stormwater conveyances (ST-1).

The 277<sup>th</sup> Quartermaster Company maintains a double-floored hazardous material shed just west of the Unit Shop. The shed houses lube oil and JP-8 fuel. Loading and unloading of enclosed materials occurs at the access door of the shed, where PPMs are fully exposed to falling precipitation and stormwater runoff.

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SITE MAP LOCATION PPM OUTFALL CODE 1 AMSA Shop Paint, solvent, lube oil, antifreeze, sulfuric OF-1 acid, fuel, detergent, grease, brake fluid Bays 2 Unit Shop Bays Paint, solvent, lube oil, antifreeze, OF-1 detergent, grease, brake fluid AMSA POL Shed 4A thru 4D Paint, solvent, lube oil, antifreeze, fuel OF-2 6 Unit Storage Lube oil, fuel OF-2 Shed

 Table 8 – Loading/unloading of PPMs (Figure 2, Figure 3 and Figure 4)

#### 3.8.4 Potential Exposure During Storage

Exposed potentially polluting materials (PPMs) at Niagara Falls USARC/AMSA 76 include new and used petroleum/oil/lubricant (POL) products, paints, solvents, and antifreeze. Exposure of PPMs usually occurs during material storage and/or transfer. Most PPMs utilized for maintenance operations at Niagara Falls USARC/AMSA 76 are stored inside the AMSA Building and POL storage shed.

Areas where PPMs are stored within the motorpool include the AMSA Building (1 and 2), POL storage shed, and other scattered locations at the MVPA. Most new and used PPMs are temporarily stored in/around the AMSA POL storage shed, which consists of two rooms. Room 4A is fully enclosed; room 4B is covered and curbed, but open on three sides (photo 2). New materials are generally stored in room 4A, including lube oil, methanol, hydraulic fluid, dry cleaning solvent, gasoline, diesel, grease, turpentine, brake fluid, ATF, and denatured alcohol. A 600-gallon waste oil tank is located in room 4B, along with containers of contaminated fuel. Two secondary containment units have been placed along the north side of the shed, each of which contains two 55-gallon drums of engine oil. With respect to material storage, locations 4B and 4C are fully or partially exposed to falling precipitation and stormwater runoff; materials stored within the secondary containment units and room 4A are fully protected.

Most PPMs actively being utilized inside the AMSA Shop are stored at the shop's northwest corner, either in flammable cabinets or nearby. Such materials, which are stored in small (5 gallon) or large containers (55 gallons), include lube oil, antifreeze (used & new), sulfuric acid, grease, turpentine, paint, brake fluid, and hydraulic fluid. Flammable storage cabinets 1A and 1B are equipped with secondary containment trays. Materials stored on the shop floor nearby lack secondary containment. Waste products are sometimes temporarily accumulated at the shop before being transferred to the POL shed. Spent motor oil, antifreeze, diesel, brake fluid, and fuel/oil filters are often collected at the north end of the shop, near the bay MB-6 access door. Most of these materials are accumulated in small containers resting on shelves or directly on the shop floor, with no secondary containment. Other PPMs are scattered throughout the maintenance bays or work rooms/cages as they are needed, most resting on tables

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or directly on the shop floor. Areas inside the shop work bays drain through a series of trench drains into a branch of stormwater sewer line ST-1. As a result, storage areas that do not provide secondary containment are fully exposed to shop trench drains, which connect with local stormwater conveyances (ST-1).

Situated at the southern end of the AMSA Building, the Unit Organizational Maintenance Shop (OMS) also drains into stormwater sewer ST-1, through a single trench drain and sump. PPMs, including lube oil, antifreeze, grease, ATF, brake fluid, paint, solvent, and turpentine, are primarily stored within flammable cabinets located along the shop's north inside wall and in front of the tool room. As with the AMSA bays, materials stored at locations without secondary containment are fully exposed to the shop trench drain, which connects to local stormwater conveyances (ST-1).

Other smaller concentrations of exposed PPMs are located outside the AMSA Building, at the AMSA Lot of the MVPA (Figure 3). The 277<sup>th</sup> Quartermaster Company stores lube oil and JP-8 fuel inside a small double-floor shed located just west of the shop. Equipment may contain exposed batteries, lubricant, grease, and/or fuel. Aside from the double-floored shed, none of these items is protected from falling precipitation or stormwater runoff.

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| SITE          | LOCATION             | РРМ   | METHOD OF            | OUTFALL             |
|---------------|----------------------|---|----------------------|---------------------|
| MAP<br>CODE   | LOCATION             | FFWI  | EXPOSURE             | OUTTALL             |
| 1             | AMSA Shop<br>Bays    | Paint, solvent, lube oil, antifreeze,<br>sulfuric acid, fuel, detergent,<br>grease, brake fluid | Storage,<br>loading, | OF-1                |
| 2             | Unit Shop Bays       | Paint, solvent, lube oil, antifreeze, detergent, grease, brake fluid                            | Storage,<br>loading  | OF-1                |
| 4A thru<br>4D | AMSA POL<br>Shed     | Paint, solvent, lube oil, antifreeze,<br>fuel   | Storage,<br>loading  | OF-2                |
| 4E thru<br>4J | MVPA                 | Diesel, antifreeze, battery<br>(sulfuric) acid, grease, lubricant,<br>leached metals            | Storage              | OF-2                |
| 5             | MVPA                 | Diesel, leached metals/<br>preservatives  | Storage              | OF-1, OF-4,<br>OF-5 |
| 6             | Unit Storage<br>Shed | Lube oil, fuel  | Loading              | OF-2                |

| Table 9 – Storage areas | (Figure 2,         | Figure 3. | and Figure 4) |
|-------------------------|--------------------|-----------|---------------|
|                         | (· · · · · · · - , |           |               |

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#### 3.8.5 Hazardous Waste Storage

Niagara Falls USARC/AMSA 76 is considered a small-quantity hazardous waste generator by NYSDEC. The USARC/AMSA has been issued a generation number from NYSDEC: NY8210424273. An Environmental Protection Plan discusses and provides guidance on the handling and disposal of hazardous wastes. The plan, which covers the AMSA and its subshop in Webster, includes hazardous waste communication standing operating procedures (SOP), hazardous material/waste SOP, and a spill prevention control and countermeasures plan (SPCCP).

"Spent" materials, including batteries, antifreeze, oil, fuel, solvent, brake fluid, and oil/fuel filters are generated at the facility in non-significant quantities (see Table 10) and disposed of by a variety of means. Most used or waste products are temporarily stored inside the AMSA Shop or at the POL storage shed until they are accumulated in sufficient quantities to be removed under contract through the 77<sup>th</sup> RRC.

Used POL, including oil, brake fluid, and fuel are disposed of through a private contract arranged by Fort Drum Department of Public Works (DPW), Environmental Division on a demand basis. Such materials are temporarily accumulated inside the shop, and transferred to the POL shed. Waste oil is collected in a 600-gallon above-ground storage tank, which rests within secondary containment curbing within the shed. Antifreeze and other used POL are typically collected into 55-gallon drums (4C) which rest in/around shed room 4B. The 77<sup>th</sup> RRC and DPW Maintenance Shop are presently coordinating an effort to enclose shed room 4B and replace the existing waste oil tank with a new one. New and used batteries are typically accumulated at the AMSA Shop battery room. Used batteries are accumulated until they are removed as part of a one for one exchange program. Oil and fuel filters are drained and crushed inside the AMSA Shop and stored in 55-gallon drums for disposal through the 77<sup>th</sup> Hazardous Materials removal contract. The parts-washing machine uses an aqueous system and no solvents are involved.

The AMSA Shop conducts an in-house recycling program for much of its generated antifreeze, thereby reducing quantities of waste antifreeze requiring collection. AMSA staff empty old antifreeze from vehicles, test and improve it, then replace it back into the vehicle, depending on conditions. Any antifreeze that cannot be used is recycled through a contractor who comes on site.

The AMSA Shop Foreman at Niagara Falls USARC/AMSA 76 will inspect hazardous material and waste areas, and update records on those areas and waste generation. These tasks will include tracking hazardous material and waste transfer among units.

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| LOCATION                 | РРМ         | AMOUNT<br>ACCUMULATED<br>(Annually) | OUTFALL    |
|--------------------------|-------------|-------------------------------------|------------|
| AMSA/                    | Oil (mixed) | 500 gal                             | OF-1, OF-2 |
| Military Vehicle Parking | Fuel        | 100 gal                             |            |
| Area                     | Brake Fluid | 10 gal                              |            |
|                          | Antifreeze  | 20 gal                              |            |
|                          | Batteries   | 50 total                            |            |
|                          | Solvent     | 360 gal                             |            |

 Table 10 – Hazardous waste storage areas (Figure 3 and Figure 4)

#### 3.8.6 Non-Stormwater Discharges

Unauthorized connections discharging pollutants to stormwater runoff or inappropriate management practices result in non-stormwater discharges (NSWDs) to stormwater sewer systems, open drainage ditches, and outfalls. Except for flows provided in Part III.A.2 of the USEPA General Permit, sources of unauthorized NSWDs must be identified and permitted, or eliminated. Where necessary to minimize pollutants in these discharges, pollution prevention measures should be adopted and implemented.

As part of the Niagara Falls USARC/AMSA 76 site assessment conducted by Bowne AE&T Group, outfalls OF-4 & OF-5 were observed for NSWDs on 16 November 2005. No dry-weather discharges were observed at the outfalls. The formerly reported illicit connections of trench drains to the stormwater system have been plugged pursuant to the initial stormwater management inspection in 1996.

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| NON-STORMWATER DISCHARGE<br>ASSESSMENT<br>AND CERTIFICATION  |   | COMPLETED BY:<br>AGENCY:<br>DATE:                     |  | <u>James Antonelli</u><br><u>Bowne</u><br>9 February 2006 |   |                            |
|--|---|---|--|---|---|----------------------------|
| DATE OF TEST<br>OR<br>EVALUATION   | OUTFALL<br>DIRECTLY<br>OBSERVED<br>DURING THE<br>TEST | METHOD<br>USED TO<br>TEST OR<br>EVALUATE<br>DISCHARGE | DESCRIBE<br>RESULTS FROM<br>TEST FOR THE<br>PRESENCE OF<br>NON-<br>STORMWATER<br>DISCHARGE | IDENTIFY<br>POTENTIAL<br>SIGNIFICANT<br>SOURCES           | AGENCY<br>CONDUCTING<br>TEST OR<br>EVALUATION | RECOM-<br>MENDED<br>ACTION |
| 11/16/05   | OF-4  | Visual  | No NSWD  | NA  | Bowne   | NA                         |
| 11/16/05   | OF-5  | Visual  | No NSWD  | NA  | Bowne   | NA                         |
| I certify that periodic NSWD inspections will be performed at Niagara Falls USARC/AMSA 76 and conducted in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information that is collected. Additionally, I certify the NSWD information listed in this table is, to the best of my knowledge and belief, 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. |   |   |  |   |   |                            |
| A. Name and Title of Certifying Authority B. Area Code and Telephone Number  |   |   |  |   |   |                            |
| C. Signature Certifying Authority D.   |   | D. Date Signed  |  |   |   |                            |

#### Table 11 – Non-stormwater discharge certification (Figure 2)

It should be noted that outfalls 1, 2 and 3 were not accessible during the field check in November 2005 because they are only visible from offsite properties and permission was not obtained to trespass.

# 3.9 Stormwater Monitoring Data

There is no record of any stormwater quality data having been obtained at this facility. Currently there are no plans to collect stormwater quality data at Niagara Falls USARC/AMSA 76. Sampling of stormwater, if required, should be conducted only at regulated outfalls as mandated by NYSDEC. Any stormwater sampling and analytical analysis must be performed by qualified individuals adhering to a specific quality assurance/quality control program. In USEPA-regulated states and most states with NPDES permitting authority, stormwater monitoring is currently not required for vehicle maintenance activities.

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# 3.10 Risk Summary

An initial assessment of areas at Niagara Falls USARC/AMSA 76 with the highest potential for stormwater runoff pollution has been prepared as part of the SWP3. The assessment should be considered a "snapshot" in time and must be updated annually or more often, as necessary. The following narratives summarize conditions observed during the 16 November 2005 site assessment. Sites identified as having the highest pollution potential are listed in Table 12. Locations of these sites are shown in Figure 2, Figure 3, and Figure 4.

#### 3.10.1 Area Maintenance Support Activity 76 (Figure 3 and Figure 4)

AMSA and unit personnel conduct limited direct support and organizational maintenance on a variety of military vehicles, CUCVs, cargo trucks, HMMWVs, bulldozers, forklifts, fuel generators, trailers, low-boys, fueling tankers, and tractor trailers. Vehicle maintenance is conducted at nine service bays (MB-1 thru MB-9) inside the AMSA Building, which is divided into two parts. The AMSA (Equipment Repair) Shop (1) is comprised of offices, storage rooms, cages, and work bays (MB-1 thru MB-7) at the northern portion of the Building. AMSA and unit personnel work in the area. The Unit (OMS) Shop (2) is situated at the southern end of the AMSA Building. Units, including the 277<sup>th</sup> Quartermaster Company and 865<sup>th</sup> General Hospital, operate offices, storage rooms, cages, and bays (MB-8 and MB-9) within the shop.

"Active-use" PPMs utilized at the AMSA Shop are primarily stored in/around flammable cabinets located at the shop's northwest corner. Such PPMs include lube oil, antifreeze, sulfuric acid, grease, turpentine, paint, brake fluid, and hydraulic fluid. Cabinets are equipped with secondary containment trays. Most materials stored within the cabinets are in small containers of 5 gallons or less. Other PPMs are stored in the Waste products generated during maintenance operations are shop work bays. temporarily accumulated inside the shop before being transferred to the POL shed, where they await collection by contract. Most wastes are collected and temporarily stored at the north end of the shop, near the bay MB-6 access door. Such wastes include spent motor oil, antifreeze, diesel, brake fluid, and fuel/oil filters. An active antifreeze recycling program has been implemented at the AMSA. New and old batteries are often stored inside the shop work bays, on wooden pallets. Since the maintenance shop bay trench drains have been plugged, PPMs within the shop are not exposed to local stormwater conveyances. Shop staff apply sorbent to spills/leaks and collect the residues as hazardous waste. Observed BMPs include updated MSDSs, spill kits/equipment, environmental plans, secondary containment trays, visual inspections, and preventive maintenance. Recommended BMPs include, additional labeling, good housekeeping, drip pans, and continued training.

Aside from the AMSA Shop, vehicle maintenance is also conducted at the Unit Shop, albeit less frequently (on drill weekends). PPMs utilized within the shop are primarily stored within a series of flammable cabinets located along the shop's north inside wall, in front of the tool cage. Such materials include lube oil, antifreeze, grease, ATF, brake fluid, paint, solvent, and turpentine. Cabinets are equipped with secondary containment trays. Observed BMPs include good overall housekeeping, updated MSDSs, spill kits/equipment, improved localized housekeeping, labeling, training and posted

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environmental plans. Recommended BMPs include and additional spill containment trays.

The AMSA and Unit Shops poses a low risk to surface waters of the State of New York, primarily due to training and that the recommendation of disconnecting the illicit connections from maintenance shop trench drain inlets to local stormwater conveyances have been carried out. As a result, spills/leaks from PPMs transferred, stored, and used within the shop bays do not impact local stormwater sewers if they contact the drains.

#### 3.10.2 Vehicle Washrack (Figure 3)

Located off the northwest corner of the AMSA Shop, the Vehicle Washrack (3A) is utilized for rinsing small and large military vehicles. The concrete-paved rack slopes into a trough drain, which connects through an oil/water separator (3B) into local sanitary sewer line S-2. The washrack is rarely used, mainly on drill weekends. It is surrounded by concrete curbing, and is equipped with a water recycling system to prevent discharges to the stormwater system.

Observed BMPs include concrete curbing and good housekeeping. Recommended BMPs include covering, posted washrack SOP, preventive maintenance, and visual inspections.

The Vehicle Washrack poses a low risk to surface waters of the State of New York, primarily due the small number of washing operations that occur there annually.

#### 3.10.3 Military Vehicle Parking Area (Figure 3)

The Military Vehicle Parking Area (MVPA) at Niagara Falls USARC is divided into two vehicle/equipment storage lots. The AMSA lot serves as a storage area for vehicles and equipment awaiting maintenance at the AMSA Building. The 277<sup>th</sup> Quartermaster Company also uses the area for additional storage space. Much of the lot was formerly overlain by a large World War II-era hangar, which was destroyed by fire. Facility engineering plans reveal that drain lines within the hangar discharged into a branch of storm sewer ST-1. Only a fraction of the drain line inlets currently remain, many of which are clogged with sediment and inoperable. Areas within the lot drain southwest into a branch of stormwater sewer ST-2, or sheetflow directly into drainage ditch DD-1 (photo 9). Locally, some areas of the AMSA lot may also drain into the Unit Shop sump inlet, which connects with stormwater sewer ST-1. Observed BMPs include good housekeeping, the use of secondary containment (around the oil pod, for example) and preventive maintenance. Recommended BMPs include localized improved housekeeping, spill kits/equipment and the use of drip pans.

The Unit Lot of the MVPA serves as the primary vehicle/equipment storage area for the 277<sup>th</sup> Quartermaster Company and 865<sup>th</sup> General Hospital. Southern areas of Unit Lot primarily drain southwest, either into storm sewers ST-1 and ST-4, or directly into ditch DD-1 (via sheetflow). Northern areas of the lot drain southeastward into ditch DD-2 and storm sewer pipe ST-5. Observed BMPs include good housekeeping and preventive maintenance. Recommended BMPs include localized improved housekeeping and the use of drip pans.

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The POL shed, which is located in the AMSA Lot (photo 2), serves as a primary storage area for new and used PPMs used at the AMSA Shop. It is divided into two rooms. Room 4A, which is fully enclosed, serves as a storage point for new products, notably lube oil, methanol, hydraulic fluid, dry cleaning solvent, diesel, grease, turpentine, brake fluid, ATF, and denatured alcohol. Areas outside the shed generally drain southwest, into a branch of stormwater sewer line ST-2. Observed BMPs include curbing, covering, and visual inspections. Recommended BMPs include good housekeeping, preventive maintenance, labeling, spill kits, hazardous waste tracking, and door lips.

The 277<sup>th</sup> Quartermaster Company maintains a double-floored shed outside, just west of the Unit Shop. The shed fully protects enclosed PPMs during storage, including lube oil and JP-8 fuel. Stormwater risks for the shed are limited to material transfer operations, which occur at the shed's access door. Areas outside the shed drain southwest into a branch of storm sewer ST-2. Observed BMPs include secondary containment, good housekeeping, MSDS, environmental plans and a spill kit. Recommended BMPs include improved labeling and visual inspections.

The MVPA poses a low risk to surface waters of the State of New York, primarily due to housekeeping, SOPs and preventative measures.

#### 3.10.4 Outlying Areas (Figure 2)

Several outlying areas at the USARC were mentioned in the initial plan and therefore the following is provided for the purposes of an update.

In the late 1990's, the Airport Authority removed two large underground storage tanks (18) that they owned. Little is known about remediation efforts connected to the tanks. The tanks formerly had drain line connections into stormwater sewer line ST-1 (Figure 2). The 77<sup>th</sup> RRC should investigate and track the removal of the tanks, remaining aware of any way the tanks might affect local stormwater sewers and outfalls.

The initial plan reported a large fenced storage area of 55-gallon drums situated off the northwest corner of the USARC. The area is maintained by the Airport Authority. The drums were reported to be fully exposed to falling precipitation and stormwater runoff. The 77<sup>th</sup> RRC should remain aware the area's risk potential and should investigate regarding any impact PPMs might have on local stormwater conveyances and Army property.

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| SITE MAP<br>CODE | LOCATION            | РРМ  | OUTFALL/<br>RECEIVING<br>WATERS             | RATING/<br>REASON <sup>1</sup> |
|------------------|---------------------|--|---|--------------------------------|
| 1, 2             | AMSA Building       | Paint, solvent, lube oil,<br>antifreeze, sulfuric acid,<br>detergent, grease, brake<br>fluid | OF-1, OF-2/<br>Cayuga Creek                 | Low/1, 14                      |
| 3                | Vehicle<br>Washrack | POL residues   | None/Sanitary                               | Low/4, 11, 15                  |
| 4, 5             | MVPA                | Paint, solvent, lube oil,<br>antifreeze  | OF-1, OF-2, OF-<br>4, OF-5/ Cayuga<br>Creek | Low/1, 3, 4,<br>7,             |

Table 12 – Risk summary (Figure 2, Figure 3, and Figure 4)

#### <sup>1</sup>RATING/REASON KEY:

- 1 Close proximity to a stormwater sewer drain (<20')
- 2 Particularly hazardous nature of stored and/or used material
- 3 Lack of containment, preventing exposure to stormwater runoff
- 4 Lack of covering, preventing exposure to precipitation
- 5 Lack of employee training and/or awareness
- 6 Lack of environmental plans (standard operating procedures, spill plans)
- 7 Lack of spill kits, drip pans, sorbent, and/or other spill equipment
- 8 Vehicle maintenance at exposed locations
- 9- Past evidence of significant spills/leaks
- 10-Particularly large amount of hazardous material stored and/or transferred
- 11-Not a point-source discharge to surface waters of the U.S.
- 12-Illicit discharges
- 13-Damaged or partially constructed protection devices (i.e., berms, covers, drip pans, flooring)
- 14-Use of secondary containment
- 15-Use of oil/water separator
- 16-Use of spill kits, drip pans and spill equipment and devices

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## 4. BEST MANAGEMENT PRACTICES PLAN

Best Management Practices (BMPs) are measures and controls that can reduce potential stormwater pollution from industrial activity pollutant sources. These BMPs can be classified as "*baseline*" or "*advanced*" and they may be inexpensive or costly to implement. Baseline BMPs include inspection programs and contingency plans that attempt to identify and eliminate conditions and practices that could cause stormwater pollution. Advanced BMPs are techniques, equipment, or structures that eliminate contact between stormwater runoff and PPMs.

In the following sections, foundations will be established for a BMPs program at Niagara Falls USARC/AMSA 76. Baseline and advanced BMPs necessary for the implementation of the facility stormwater program will be discussed and listed. BMPs are also inventoried to assess whether the facility is already implementing certain BMPs. The BMPs inventory will be used in determining recommended BMPs in section 5.0. The stormwater inspection checklist in section 5.0 should be used to monitor potential problems and to select measures and controls (BMPs) in concert with tables in sections 4.1 and 4.2.

## 4.1 Baseline Best Management Practices

Baseline BMPs are relatively simple inspection programs and contingency plans that are implemented at a facility. The Shop Foreman will perform monthly stormwater inspections. The 77th RRC is responsible for updating the ISCP, ensuring motorpool personnel receive environmental training, and conducting an annual compliance inspection of the facility. The following baseline programs are briefly discussed in this chapter and are included in the stormwater inspection checklist provided in Table 21.

## 4.1.1 Good Housekeeping

Good housekeeping addresses cleanliness and orderliness of work and storage areas. Common sense guides the continued use of or the appropriate implementation of good housekeeping practices. The following is a list of common good housekeeping practices and the degree in which they have been implemented at the facility.

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| BEST MANAGEMENT PRACTICE   | IMPLE-<br>MENTED | NOT<br>IMPLE-<br>MENTED |
|--|------------------|-------------------------|
| Work areas and outside areas should be clean, organized, free of easily spilled materials, and free of sediment and eroded soils that could pollute stormwater runoff. | Х                |                         |
| Maintenance, washing and painting should be performed at authorized areas.   | Х                |                         |
| Spilled materials should be cleaned with dry sweep or rags, not with water.  | Х                |                         |
| Proper handling, storage, disposal, and accountability of hazardous materials and wastes should be enforced.   | Х                |                         |
| Good housekeeping visual aids should be posted at the motorpool.   | Х                |                         |
| Personnel should be formally trained in good housekeeping practices.   | Х                |                         |

#### 4.1.2 **Preventive Maintenance**

Preventive maintenance addresses technically inspecting all vehicles and equipment for conditions that could lead to leaks or spills of PPMs. All incoming vehicles and equipment should be technically inspected for fluid leaks or drips. Vehicles and equipment stored at the facility should be inspected daily for fluid leaks and drips. Maintenance equipment, oil/water separators, storage tanks and drums, pipes, and pumps should be included in the technical inspection. Table 14 is a list of common preventive maintenance practices and their implementation at the facility.

| Table 14 – Preventive | maintenance BMPs |
|-----------------------|------------------|
|-----------------------|------------------|

| BEST MANAGEMENT PRACTICE  | IMPLE-<br>MENTED | NOT IMPLE-<br>MENTED |
|---|------------------|----------------------|
| Provide technical inspection for all incoming vehicles and equipment.   | Х                |                      |
| Vehicles, oil/water separators, or any equipment located at the motorpool should be inspected daily for malfunctions, fluid leaks, or improper operation. | Х                |                      |

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### 4.1.3 Spill Prevention and Response

The ISCP should be reviewed and revised by the 77th RRC for Niagara Falls USARC/AMSA 76. The Shop Foreman has the responsibility to serve as emergency coordinator in the event of a spill. The Facility Manager should be designated as emergency spill coordinator at the facility when the Shop Foreman is not present. The Shop Foreman has the responsibility to ensure the spill is immediately contained, proper spill reporting procedures are followed, and the 77th RRC is immediately informed. Table 15 includes key elements that are required as part of the spill prevention and response program.

| BEST MANAGEMENT PRACTICE  | IMPLE-<br>MENTED | NOT IMPLE-<br>MENTED |
|---|------------------|----------------------|
| An updated ISCP, emergency coordinator, and spill equipment must be readily available at the facility during working hours.                                       | Х                |                      |
| After normal duty hours (0700-1700) and on weekends, in the event of a significant spill or leak, the AMSA Shop Foreman should refer to his/her environmental SOP | Х                |                      |
| Formal training in emergency spill response must be provided to all motorpool personnel, including units.   | Х                |                      |

#### Table 15 – Spill prevention and response BMPs

## 4.1.4 Visual Inspections

A formal visual inspection program is used to ensure that good housekeeping and preventive maintenance are being actively practiced, and that a spill plan and spill containment equipment are readily available at the facility. The Shop Foreman will conduct monthly visual inspections of the motorpool using the stormwater inspection checklist. The 77th RRC will perform annual compliance inspections using the stormwater inspection checklist. Table 16 highlights the important aspects of the visual inspection program and their degree of implementation at Niagara Falls USARC/AMSA 76.

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| BEST MANAGEMENT PRACTICE   | IMPLE-<br>MENTED | NOT IMPLE-<br>MENTED |
|--|------------------|----------------------|
| Conduct a monthly visual inspection of the motorpool using the stormwater inspection checklist. Sign, date, and keep monthly inspection checklists for future reference. | Х                |                      |
| Verify that good housekeeping and preventive maintenance are being actively practiced at the motorpool.  | Х                |                      |
| Verify that an updated ISCP and containment equipment are readily available at the motorpool.  | Х                |                      |
| Identify conditions that could cause stormwater pollution and report potential problems to the Facility Manager  | Х                |                      |
| The 77th RRC will perform an annual stormwater compliance inspection.  | Х                |                      |

## 4.1.5 Sediment and Erosion Control

The USEPA General Permit (Part IV.D.1.a) requires identification of areas having a high potential for significant soil erosion and selection of measures (BMPs) to remediate those sites. No such areas were identified at Niagara Falls USARC/AMSA 76.

## 4.2 Advanced Best Management Practices

Advanced BMPs are techniques, equipment, structures, or construction practices that prevent hazardous materials or wastes from reaching the environment in stormwater runoff. All Army Reserve maintenance facilities employ various advanced BMPs. Implementation of new advanced BMPs or maintenance and upkeep of existing advanced BMPs usually requires requisitions, work orders, or self-help initiatives. Identification, implementation, and upkeep of advanced BMPs involve coordination between the Facility Manager, Shop Foreman, shop personnel, senior officers, and 77th RRC staff. The Facility Manager has a responsibility to work with AMSA, unit, and 77th RRC staff to identify needed advanced BMPs and provide proper maintenance and upkeep for existing advanced BMPs. Also, the Facility Manager has the responsibility to inform senior officers of advanced BMP needs, and submit and follow up on requisitions and work orders. Table 17 identifies common advanced BMPs and their degree of implementation at the facility.

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#### Table 17 – Advanced BMPs

| BEST MANAGEMENT PRACTICE  | IMPLE-<br>MENTED | NOT<br>IMPLE-<br>MENTED |
|---|------------------|-------------------------|
| Facility maintenance and hazardous material storage buildings should be in good condition. Rainfall should not leak through the roof and stormwater should not enter the building.          | Х                |                         |
| Stormwater runoff should not pond on the motorpool grounds.<br>Stormwater runoff should be conveyed from the motorpool by<br>properly maintained open channels or stormwater sewer systems. |                  | X <sup>1</sup>          |
| Outdoor storage structures must be secure, provide secondary containment, and prevent any contact between hazardous materials or wastes and precipitation and stormwater runoff.            | Х                |                         |
| Washracks and oil/water separators should be properly operated and maintained, and should not discharge into stormwater conveyances.  | Х                |                         |
| Sources of NSWDs must be identified and eliminated by corrective actions.   | Х                |                         |
| Drip pans should be used at motorpool parking areas.  |                  | X <sup>2</sup>          |
| Spill containment equipment should be requisitioned and readily accessible at all areas of motorpool.   | Х                |                         |
| Trash dumpsters should have lids to prevent accumulation of precipitation within them.  | Х                |                         |

- 1. Note that some areas are unpaved, and pavement is broken and uneven in areas, causing
- 2. Note that dip pans have been obtained but were not in use due to high winds. The base should consider the use of a ballast weight in the drip pan such as a brick.

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## 5. IMPLEMENTATION

An effective SWP3 for a facility requires establishment, implementation, and maintenance of the following primary elements: Pollution Prevention Team (Section 2.0); facility assessment (Section 3.0); BMPs plan (Section 4.0); and recommended BMPs, coupled with an inspection and record keeping program that allows for continuous improvement (Section 5.0).

The object of section 4.0 is to introduce, discuss, and inventory baseline and advanced BMPs available to Niagara Falls USARC/AMSA 76. Section 5.0 builds on this information and recommends measures that supplement the existing BMPs that will bring the USARC/AMSA into compliance. Included in this chapter are recommended BMPs for reducing the potential for stormwater runoff pollution at the USARC/AMSA facility, a stormwater activity log sheet for record keeping, and a stormwater inspection checklist to be used when performing monthly and annual stormwater inspections.

The stormwater activity log sheet is a permanent record that documents significant stormwater management activities performed at the facility. Log sheet entries should be dated and initialed. Items such as stormwater inspections, PPM spills, or activities related to implementation and maintenance of BMPs should be recorded on the log sheet.

The stormwater inspection checklist is a standard form that can be used at the USARC/AMSA to implement the stormwater management program. Elements of baseline and advanced BMPs are incorporated into the inspection checklist. The checklist is designed to reinforce the existing BMP program by assessing the effectiveness of implemented measures and controls. The checklist should also be used by the AMSA Shop Foreman to conduct monthly visual inspections and by 77th RRC personnel to perform the annual compliance evaluation. Table 18 presents key elements required to implement and evaluate the stormwater management program. Additional columns are provided in Table 18 to allow for approval and scheduling of such activities by senior officials.

The SWP3 will be updated annually, or more often, as required. The 77th RRC will be charged with conducting compliance evaluations and updating the plan. Major tasks include reinspecting industrial activity and pollutant source areas and outfalls, updating information about those areas and the PPMs inventory, conducting non-stormwater discharge inspections of outfalls, reevaluating the use of BMPs and recommending additional controls (if necessary), and convening the PPT to review stormwater issues and problems. The compliance update also allows the PPT to assess and update training needs. Table 22 provides information on conducting the evaluations.

Adequate pollution prevention training is an important component to the success of the stormwater management program at Niagara Falls USARC/AMSA 76. AMSA staff have attended environmental training courses provided by the 77th RRC. Lectures, practical exercises and self-help sessions are key training mediums. Table 5.4 details training needs and outlines training direction.

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## Table 18 – Key elements to implement and evaluate the stormwater management program

| ELEMENT TO IMPLEMENT SW PROGRAM  | BY | DATE |
|--|----|------|
| Assign top priority to: (1) correcting problems identified during the initial site assessment; and (2) establishing stormwater inspection and personnel training program.  |    |      |
| Record significant stormwater management activities on the stormwater log sheet.   |    |      |
| Monthly inspections will be performed by the AMSA Shop<br>Foreman. Any problems identified will be reported to the Facility<br>Manager for corrective action. If the problem cannot be corrected<br>by the Facility Manager, recommendations for corrective actions will<br>be made to the 77th RRC. |    |      |
| Monthly inspection checklists will be reviewed, signed and dated by<br>the Facility Manager, and filed by the AMSA Shop Foreman for<br>future reference by compliance inspectors.  |    |      |
| Periodic stormwater inspection reviews will be performed by the 77th RRC. Recommended corrective actions and employee training needs should be discussed.  |    |      |
| The Facility Manager should discuss equipment, construction, and training needs with the AMSA Shop Foreman, senior officers and the 77th RRC. Requisitions and work orders should be submitted through proper channels by the Facility Manager.  |    |      |
| Employee training should be conducted.   |    |      |
| Advanced BMPs should be implemented.   |    |      |
| The annual stormwater management program compliance evaluation and stormwater plan review will be conducted by 77th RRC personnel.   |    |      |

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## 5.1 Recommended Best Management Practices

Building on information in section 4.0, Table 19 identifies recommended BMPs that should be endorsed by the Niagara Falls USARC/AMSA 76 PPT as goals for 1997. The Facility Manager should initial and date the block indicating if the recommended best management practice is accepted and is being implemented.

Table 19 – Recommended BMPs (Figure 2, Figure 3, Figure 4, and 3.2d)

| BEST MANAGEMENT PRACTICE TO BE<br>IMPLEMENTED  | TYPE | SITE MAP CODE      | BY | DATE |
|--|------|--------------------|----|------|
| Continue stormwater training for all facility personnel                                | BBMP | Facility-wide      |    |      |
| Update ISCP and Environmental SOPs every two years or more often as required.          | BBMP | Facility-wide      |    |      |
| Maintain updated MSDSs and PPMs inventory for AMSA and units, and centralize filing.   | BBMP | Facility-wide      |    |      |
| Contract removal of obsolete scrap/surplus materials                                   | ABMP | 4E thru 4F, 5A, 5H |    |      |
| Provide curbing, covering, and SOP for washrack  | ABMP | 3A and 3B          |    |      |
| Service and improve storm sewer inlets if needed.                                      | ABMP | Facility-wide      |    |      |
| Continue good housekeeping   | BBMP | 1, 2, 4, and 5     |    |      |
| Improve visual inspection and preventive maintenance                                   | BBMP | 3, 4, 5            |    |      |
| Improve spill prevention and drip pan program  | BBMP | Facility-wide      |    |      |
| Maintain secondary containment features  | BBMP | 1, 2, 4, and 5     |    |      |
| Encourage units to conduct self-help initiatives to improve conditions at the facility | BBMP | Facility-wide      |    |      |
| Maintain spill kits and/or sorbent pads  | BBMP | 2, 3, 4, and 6     |    |      |
| Post signs near where discharges are entering public waters                            | BBMP | Facility-wide      |    |      |

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## 5.2 Stormwater Log Sheet and Inspection Checklist

The stormwater log sheet (Table 20) and stormwater inspection checklist (Table 21) for motorpool operations are provided on the following pages. These documents form a permanent record of stormwater management activities conducted at this facility. Regularly (monthly) updating logs and checklists will aid the facility in tracking pollutant sources, risks, and BMPs. The original documents should be signed and dated, and kept with the original SWP3 at Niagara Falls USARC/AMSA 76 for future reference during plan revisions or inquiries by 77th RRC, State, or Federal inspectors.

| DATE | INITIALS | NARRATIVE |
|------|----------|-----------|
|      |          |           |
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|      |          |           |

#### Table 20 – Stormwater log sheet

| Table 21 – Stormwater inspection |
|----------------------------------|
|----------------------------------|

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| UNIT N   | IAME:  |                   |  | BL                            | JILDING NAME:   | DATE:                           |
|--|--|-------------------|--|-------------------------------|---|---------------------------------|
| PROBLEMS NOTED:  |  |                   |  | <u>.</u>                      |   |                                 |
|  |  |                   |  |                               |   |                                 |
| INSPE  | CTORS N  | IAME:             |  | SIC                           | GNATURE:  |                                 |
|  | -  |                   |  |                               |   |                                 |
| YES  | NO   | TYPE <sup>1</sup> |  |                               | INSPECTION ITEM   |                                 |
|  |  | GH                | Do you see any evid                      | denc                          | ce of recently spilled materials, either solid or liqu                | uid?                            |
|  |  | GH                | Do you see any evid                      | denc                          | ce of illegal dumping in drainage channels or sto                     | rmwater sewers?                 |
|  |  | GH                | Are potentially pollu                    | iting                         | materials exposed to precipitation and stormwat                       | ter runoff?                     |
|  |  | GH                | Are drums, POL sto                       | orage                         | e structures, and secondary containment units se                      | ecure and properly labeled?     |
| GH Are vehicles and equ  |  |                   | Are vehicles and eq                      | juipn                         | nent stored outdoors free of excessive amounts                        | of mud and dirt?                |
| GH Do you see excess   |  |                   | Do you see excess                        | trasł                         | h, unswept or cluttered work areas, or materials                      | that can be easily spilled?     |
| PM Are there spots, pools, puddles, or other traces of oil, grease, or other chemicals on the ground |  |                   | hemicals on the ground?                  |                               |   |                                 |
| PM Do you see any leaking vehicles, drums, tanks, dumpsters, or other equipment?                     |  |                   | ipment?                                  |                               |   |                                 |
|  | PM Does standing water have oil sheens or discoloration?   |                   |  |                               |   |                                 |
|  | PM Is vehicle washing or steam cleaning performed at any area of this motorpool other than a washrack? |                   |  | prpool other than a washrack? |   |                                 |
|  | SPR Is the facility spill plan or SOP posted on the maintenance bay bulletin board?                    |                   |  | oard?                         |   |                                 |
|  | SPR Is spill containment equipment readily accessible?   |                   |  |                               |   |                                 |
|  | VI Are monthly visual inspections performed at this motorpool?   |                   |  |                               |   |                                 |
|  |  | AP                | Does precipitation c                     | or sto                        | prmwater runoff enter and cause problems inside                       | e shop and storage buildings?   |
|  |  | AP                | Are there any sites                      | of ac                         | ctive soil erosion at this motorpool?                                 |                                 |
|  |  | AP                | Do you see any star                      | ndinç                         | g water at the motorpool?   |                                 |
|  |  | AP                | Do you see any nor                       | า-sto                         | rmwater discharges entering the stormwater sev                        | wer or drainage ditches?        |
|  |  | AP                | Do outdoor POL sto                       | orage                         | e structures prevent contact with precipitation or                    | stormwater runoff?              |
|  |  | AP                | Are secondary cont                       | ainm                          | nent units used at waste accumulation areas?                          |                                 |
|  |  | AP                | Are drip pans in use                     | e at t                        | his motorpool? Estimated percentage of vehicle                        | es with drip pans:%.            |
|  |  | AP                | Are conex boxes or<br>number of conex bo | milv<br>milv                  | vans used to store new or used POL at this moto<br>or milvans in use. | prpool? If yes, please give the |
|  |  | AP                | Are visual aids such                     | n as :                        | stormwater posters and warning signs displayed                        | d at this motorpool?            |
|  |  | AP                | Is environmental tra                     | aininç                        | g provided for personnel working at this motorpo                      | ol?                             |
| CORRECTIVE ACTIONS NEEDED:   |  |                   |  |                               |   |                                 |
| REVIEWERS NAME:  |  |                   |  |                               | SIGNATURE: D  | DATE:                           |

#### <sup>1</sup>Inspection Item Types:

GH: Good Housekeeping PM: Preventive Maintenance

SPR: Spill Prevention and Response VI: Visual Inspection

AP: Advanced Practice

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## 5.3 Annual Compliance Inspection

The 77th RRC will utilize the stormwater inspection checklist to conduct an annual compliance evaluation of Niagara Falls USARC/AMSA 76. The compliance evaluation will include reviewing updated site information (including stormwater log sheets and inspection forms completed by the AMSA Shop Foreman during monthly inspections), updating the stormwater pollution prevention plan, and conducting a non-stormwater discharge certification. Upon being covered by the NYSPDES General Permit, stormwater sampling will not be required at Niagara Falls USARC/AMSA 76 unless specifically requested by NYSDEC.

| COMPLIANCE ELEMENT  | CONDUCTED<br>BY | START<br>DATE | COMPLETION<br>DATE |
|---|-----------------|---------------|--------------------|
| Review monthly stormwater inspection checklists completed by the AMSA Shop Foreman  |                 |               |                    |
| Review site assessment in SWP3 and update as necessary (outfalls, sources, PPMs, site map)                                  |                 |               |                    |
| Review implementation status of BMPs in SWP3 and update as necessary  |                 |               |                    |
| Based on updated implemented BMPs, update recommended BMPs  |                 |               |                    |
| Review and update regulatory information in the SWP3 if necessary   |                 |               |                    |
| Conduct NSWD assessment and<br>certification  |                 |               |                    |
| If permitted, conduct stormwater sampling of regulated outfalls (consult NYSDEC and NYSPDES General Permit for information) |                 |               |                    |
| Complete report of compliance findings and sampling results, and file   |                 |               |                    |

#### Table 22 – Annual compliance schedule

## 5.4 Environmental Training

Employees at Niagara Falls USARC/AMSA 76 are required to attend annual, formal environmental training offered by the 77<sup>th</sup> RRC. Facility staff are also informally trained during periodic site visits by the 77<sup>th</sup> RRC. All civilian personnel who work within regulated areas are also required to attend the training.

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# 6. STORM WATER POLLUTION PREVENTION PLAN PHOTOGRAPHS

| U.S. Army Reserve - 77 <sup>th</sup> Regional Readiness Command       | VERSION: | 2.0          |
|---|----------|--------------|
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# 6. STORM WATER POLLUTION PREVENTION PLAN PHOTOGRAPHS



Photo 1 – OMS

| U.S. Army Reserve - 77 <sup>th</sup> Regional Readiness Command       | VERSION: | 2.0          |
|---|----------|--------------|
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Photo 2 – AMSA 76, PPM Storage Room & Used Oil Pod

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Photo 3 – Used Oil Pod

| U.S. Army Reserve - 77 <sup>th</sup> Regional Readiness Command       | VERSION: | 2.0          |
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Photo 4 – MVPA

| U.S. Army Reserve - 77 <sup>th</sup> Regional Readiness Command       | VERSION: | 2.0          |
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Photo 5 – MEP

| U.S. Army Reserve - 77 <sup>th</sup> Regional Readiness Command       | VERSION: | 2.0          |
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Photo 6 – MVPA

| U.S. Army Reserve - 77 <sup>th</sup> Regional Readiness Command       | VERSION: | 2.0          |
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Photo 7 - MVPA w/ POL Shed

| U.S. Army Reserve - 77 <sup>th</sup> Regional Readiness Command       | VERSION: | 2.0          |
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Photo 8 – Facility Outfall, OF-5

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Photo 9 – Drainage Ditch, DD-1

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Photo 10 – Parts Washer within AMSA

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Photo 11 – POL Storage Area within AMSA

| U.S. Army Reserve - 77 <sup>th</sup> Regional Readiness Command       | VERSION: | 2.0          |
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Photo 12 – Maintenance Bays within AMSA

| U.S. Army Reserve - 77 <sup>th</sup> Regional Readiness Command       | VERSION: | 2.0          |
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Photo 13 - Flammable Cabinets within OMS

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Photo 14 – Maintenance Bay within OMS

93-06-004 (12/94)-

#### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

PETROLEUM BULK STORAGE REGISTRATION CERTIFICATE

NYS DEC - REGION 9 270 MICHIGAN AVE

BUFFALO, NY 14203-2999



|                  |                                |                           |                                  |                | (716)   | 851-7220  | Page <u>1</u> of 1  |
|------------------|--------------------------------|---------------------------|----------------------------------|----------------|---|---|---|
| TANK<br>NUMBER   | DATE<br>INSTALLED              | TANK TYPE<br>Steel/Carbon | (_//                             |                | TESTING<br>DUE DATE   | AFRC-CNY-EN, BI   | SUPPORT COMMAND   |
|                  |                                | Steer/Carbon              | SLEET                            | 528            | * *   | SITE  | AFRC/AMSA #76(G)  |
|                  |                                |                           |                                  |                |   | OPERATOR (Name and Telephone<br>MR HOGAN<br>(716) 297-7200  | Number)   |
|                  |                                | ,                         |                                  |                |   | EMERGENCY CONTACT (Name ar<br>PAUL BERTRAND<br>(718) 352-2092   | id Telephone Number)  |
| * Above<br>docum | ground tank<br>ented inter     | nal inspectio             | thly visual in<br>ns as describe | d in 6NYCRR Pt | may need<br>2. 613.   | stationary tank.<br>• The facility must be operated<br>storing petroleum, 6 NYCRR I<br>• Any new facility or substantial<br>with 6 NYCRR Part 614.<br>• This certificate must be poster | information displayed on this<br>wiedge. Additionally, I recognize<br>hat this facility is in compliance<br>612, 613 and 614, and applicable<br>14 (used oil tanks only), not just<br>ared if there is a transfer of<br>wiffled within 30 days prior to<br>hing, or permanently closing a<br>in accordance with the code for<br>Part 613.<br>Ily modified facility must comply<br>of on the premises at all times.<br>t the entrance of the facility, or<br>rage tanks are located. |
| Commi            | ssioner Joh                    | n P. Canill               | MAILING CORRESPONDENCE           |                |   |   | thin two hours (1-800-457-7362).  |
|                  | JLK STORAGE ID NUM<br>9-008877 |                           | 77TH REGION                      | AL DIVISION    | IMAND   | Signature of Authorized Represe   | ntative/Owner Date  |
|                  |                                | TION DATE<br>17/2006      | AFRC-CNY-EN<br>BUILDING 20       | 0              |   | Name of Authorized Reprèser   | tative/Owner (Please Print)   |
| FEE PAID         | \$ 0                           |                           | FT TOTTEN,                       | NY 11359-1016  |   | Title   | ÷   |
|                  |                                |                           |                                  |                | the second se |   |   |

THIS REGISTRATION CERTIFICATE IS NON-TRANSFERABLE

#### Federal Agency Hazardous Waste Compliance Docket Listings in EPA Region 2 through Update #21 (published October 25, 2005)

| Agency    | Facility Name                          | Facility Address                  | City                     | State | Zip<br>Code    | Reporting<br>Mechanism         | NFRAP<br>Status* | NPL<br>Status** | Date Added<br>to Docket |
|-----------|--|-----------------------------------|--------------------------|-------|----------------|--------------------------------|------------------|-----------------|-------------------------|
| AIR FORCE | BOMARC/MCGUIRE MSL                     | RT 539                            | NEW EGYPT                | NJ    | 08533          | 103c                           | N                | N               | 11/16/1988              |
| AIR FORCE | MCGUIRE AIR FORCE BASE                 | WRIGHTSTOWN-COOKSTOWN<br>RD       | WRIGHTSTOWN              | NJ    | 08562          | 3005 3010<br>3016 103c         | U                | F               | 2/12/1988               |
| AIR FORCE | NEW JERSEY AIR NATIONAL<br>GUARD 177FW | 400 LANGLEY RD                    | EGG HARBOR TWP           | NJ    | 08234-<br>9500 | 3010                           |                  |                 | 7/1/2002                |
| ARMY      | BAYONNE MILITARY OCEAN<br>TERMINAL     | FOOT OF 32ND STREET               | BAYONNE                  | NJ    | 07002          | 3005 3010<br>3016 103c<br>103a | Ν                | N               | 2/12/1988               |
| ARMY      | BRITTON ARMY RESERVE<br>CENTER         | 39TH ST & FEDERAL ST              | CAMDEN                   | NJ    | 08105          | 3010 103c                      | Ν                | Ν               | 2/12/1988               |
| ARMY      | CAVEN POINT ARMY<br>RESERVE CENTER     | 1 CHAPEL AVENUE                   | JERSEY CITY              | NJ    | 07305          | 3010 103c                      | Ν                | Ν               | 9/27/1991               |
| ARMY      | FORT MONMOUTH                          | TINTON & PINEBROOK                | TINTON FALLS             | NJ    | 07724          | 3010 3016<br>103c 103a         | Ν                | Ν               | 2/12/1988               |
| ARMY      | FORT MONMOUTH EVANS<br>AREA #1         | MARCONI ROAD                      | WALL TOWNSHIP            | NJ    | 07719          | 3010 3016<br>103c              | Ν                | Ν               | 7/17/1992               |
| ARMY      | KILMER ARMY RESERVE<br>CENTER          | BLDG 1007                         | EDISON                   | NJ    | 08817          | 3010                           | Ν                | Ν               | 2/5/1993                |
| ARMY      | PEDRICKTOWN SUPPORT<br>FACILITY        | ROUTE 130 & ARTILLERY AVE         | PEDRICKTOWN              | NJ    | 08067          | 3010 103c                      | Ν                | Ν               | 12/15/1989              |
| ARMY      | PICATINNY ARSENAL                      | OFF ROUTE 15                      | DOVER                    | NJ    | 07801          | 3005 3010<br>3016 103c         | U                | F               | 2/12/1988               |
| ARMY      | STORCH ARMY RESERVE<br>CENTER          | SHORE RD & DOLPHIN<br>NORTHFIELD  | NORTHFIELD               | NJ    | 08225          | 3010 103c                      | Ν                | Ν               | 2/12/1988               |
| ARMY      | STRYKER ARMY RESERVE<br>CENTER         | 2150 NOTTINGHAM WAY               | TRENTON                  | NJ    | 08619          | 3010 103c                      | Ν                | Ν               | 2/12/1988               |
| ARMY      | TRAINING CENTER & FORT<br>DIX          | JULIUSTOWN - BROWNS MILLS<br>ROAD | WRIGHTSTOWN              | NJ    | 08562          | 3005 3010<br>3016 103c         | U                | F               | 2/12/1988               |
| COMMERCE  | NOAA/NMFS/NEFC                         | SANDY HOOK LABORATORY             | HIGHLANDS                | NJ    | 07732          | 3005 3010<br>103c              | Ν                | Ν               | 2/12/1988               |
| ENERGY    | MAYWOOD INTERIM<br>STORAGE SITE        | ROUTE 17 AND GROVE<br>STREET      | MAYWOOD/ROCHELLE<br>PARK | NJ    | 07662          | 3016 103c<br>3010              | U                | F               | 2/12/1988               |
| ENERGY    | MIDDLESEX SAMPLING<br>PLANT            | 239 MOUNTAIN AVE                  | MIDDLESEX BOROUGH        | NJ    | 08846          | 3010 3016<br>103c              | U                | F               | 2/12/1988               |

| Agency                             | Facility Name  | Facility Address              | City                     | State | Zip<br>Code    | Reporting<br>Mechanism         | NFRAP<br>Status* | NPL<br>Status** | Date Addec<br>to Docket |
|------------------------------------|--|-------------------------------|--------------------------|-------|----------------|--------------------------------|------------------|-----------------|-------------------------|
| ENERGY                             | NEW BRUNSWICK<br>LABORATORY-ERDA                     | 986 JERSEY AVENUE             | NEW BRUNSWICK            | NJ    | 08903          | 3016 103c                      | N                | N               | 2/12/1988               |
| ENERGY                             | PRINCETON PLASMA<br>PHYSICS LABORATORY               | FORRESTAL CAMPUS              | PRINCETON                | NJ    | 08544          | 103c 3010<br>3016              | U                | Ν               | 2/5/1993                |
| ENERGY                             | WAYNE INTERIM STORAGE                                | 868 BLACK OAK RIDGE RD        | WAYNE                    | NJ    | 07470          | 3016 103c                      | U                | F               | 2/12/1988               |
| EPA                                | RARITAN DEPOT  | 4700 WOODBRIDGE AVENUE        | EDISON                   | NJ    | 08817          | 3005 3010<br>3016 103c         | Ν                | Ν               | 11/16/1988              |
| GENERAL SERVICES<br>ADMINISTRATION | BELLE MEAD SUPPLY DEPOT                              | #1 RT 206                     | BELLE MEAD               | NJ    | 08502          | 3010 103c<br>103a              | U                | N               | 2/12/1988               |
| GENERAL SERVICES<br>ADMINISTRATION | CLARKSON FISHER FEDERAL<br>BUILDING & COURTHOUSE     | 402 E STATE ST                | TRENTON                  | NJ    | 08608          | 3010                           | N                | N               | 11/23/1998              |
| GENERAL SERVICES<br>ADMINISTRATION | RARITAN DEPOT  | 4700 WOODBRIDGE AVENUE        | EDISON                   | NJ    | 08817          | 3005 3010<br>3016 103c         | Ν                | N               | 2/12/1988               |
| GENERAL SERVICES<br>ADMINISTRATION | SOMERVILLE DEPOT                                     | ROUTE 206                     | SOMERVILLE               | NJ    | 08876          | 103c 3010                      | N                | N               | 11/16/1988              |
| HOMELAND<br>SECURITY               | SANDY HOOK COAST GUARD                               | HARTSHORNE DRIVE              | HIGHLANDS                | NJ    | 07732          | 3010 103c                      | N                | N               | 11/16/1988              |
| INTERIOR                           | FWS-BARNEGAT DIVISION,<br>EDWIN B. FORSYTHE NWR      | PO BOX 544                    | BARNEGAT                 | NJ    | 08005          | 3016 103c                      | Ν                | Ν               | 2/12/1988               |
| INTERIOR                           | FWS-GREAT SWAMP<br>NATIONAL WILDLIFE REFUGE          | 152 PLEASANT PLAINS ROAD      | BASKING RIDGE            | NJ    | 07920-<br>9615 | 3016 103c<br>3010              | Ν                | N               | 2/12/1988               |
| NTERIOR                            | NPS-GATEWAY NATIONAL<br>RECREATIONAL AREA            | FORT HANCOCK                  | SANDY HOOK -<br>BROOKLYN | NJ    | 07732          | 3010 3016<br>103c              | Ν                | N               | 2/12/1988               |
| NTERIOR                            | NPS-MORRISTOWN<br>NATIONAL HISTORICAL PARK           | WASHINGTON PLACE              | MORRISTOWN               | NJ    | 07960          | 103c                           | N                | N               | 11/10/1993              |
| NAVY                               | EARLE NAVAL WEAPONS                                  | 201 HWY 34 S                  | COLTS NECK               | NJ    | 07722          | 3005 3010<br>3016 103c         | U                | F               | 2/12/1988               |
| NAVY                               | LAKEHURST NAVAL AIR<br>ENGINEERING CENTER            | HANCOCK ROAD OFF ROUTE<br>547 | LAKEHURST                | NJ    | 08733          | 3005 3010<br>3016 103c         | U                | F               | 2/12/1988               |
| NAVY                               | TRENTON NAVAL AIR<br>WARFARE CENTER,<br>AIRCRAFT DIV | PARKWAY AVE                   | TRENTON                  | NJ    | 08628          | 3005 3010<br>3016 103c<br>103a | Ν                | N               | 2/12/1988               |

| Agency           | Facility Name   | Facility Address                       | City              | State | Zip<br>Code    | Reporting<br>Mechanism | NFRAP<br>Status* | NPL<br>Status** | Date Added<br>to Docket |
|------------------|---|--|-------------------|-------|----------------|------------------------|------------------|-----------------|-------------------------|
| POSTAL SERVICE   | BELLMAWR VEHICLE<br>MAINTENANCE FACILITY              | 421 BENIGNO BLVD & HAAG<br>AVE         | BELLMAWR          | NJ    | 08099          | 3010                   | Ν                | N               | 11/23/1998              |
| TRANSPORTATION   | FAA-TECHNICAL CENTER                                  | ROUTES 563 AND 575                     | POMONA            | NJ    | 08405          | 3016 103c<br>103a 3010 | U                | F               | 2/12/1988               |
| VETERANS AFFAIRS | EAST ORANGE MEDICAL<br>CENTER                         | TREMONT AVE.                           | EAST ORANGE       | NJ    | 07019          | 3010 103c              | Ν                | N               | 2/12/1988               |
| VETERANS AFFAIRS | LYONS HOSPITAL  | KNOLLCRAFT ROAD                        | LYONS             | NJ    | 07939          | 3010 103c              | Ν                | N               | 2/12/1988               |
| VETERANS AFFAIRS | VA ASSET MANAGEMENT<br>SERVICE                        | 152 ROUTE 206 SOUTH                    | HILLSBOROUGH      | NJ    | 08844          | 103c 3010              | Ν                | N               | 2/12/1988               |
| AIR FORCE        | GRIFFISS AIR FORCE BASE                               | 153 BROOKS RD                          | ROME              | NY    | 13441          | 3005 3010<br>3016 103c | U                | F               | 2/12/1988               |
| AIR FORCE        | HANCOCK FIELD   | TAFT AND THOMPSON ROADS                | NORTH SYRACUSE    | NY    | 13212          | 3010 3016<br>103c 3005 | Ν                | N               | 11/16/1988              |
| AIR FORCE        | NIAGARA FALLS AIR FORCE<br>RESERVE FACILITY           | 914 TAG/DE PO BOX F<br>LASALLE STATION | NIAGARA FALLS IAP | NY    | 14304          | 3005 3010<br>3016 103c | Ν                | N               | 2/12/1988               |
| AIR FORCE        | PLANT #38   | PORTER & BALMER RDS                    | PORTER TWP        | NY    | 14131          | 3005 3010<br>3016 103c | Ν                | N               | 2/12/1988               |
| AIR FORCE        | PLANT #59   | 600 MAIN STREET                        | JOHNSON CITY      | NY    | 13790          | 3016 103c<br>3010      | Ν                | N               | 2/12/1988               |
| AIR FORCE        | PLATTSBURGH AIR FORCE<br>BASE                         | 308 CSG/CC                             | PLATTSBURGH AFB   | NY    | 12901-<br>5000 | 3005 3010<br>3016 103c | U                | F               | 2/12/1988               |
| AIR FORCE        | STEWART AIR NATIONAL<br>GUARD BASE                    | STEWART INTERNATIONAL<br>AIRPORT       | NEWBURGH          | NY    | 12550          | 103c 3010<br>3016      | Ν                | N               | 2/5/1993                |
| AIR FORCE        | WESTHAMPTON BEACH AIR<br>NATIONAL GUARD FACILITY      | SUFFOLK COUNTY AIRPORT                 | WESTHAMPTON BEACH | NY    | 11978          | 3010                   | U                | U               | 2/5/1993                |
| AIR FORCE        | YOUNGSTOWN TEST ANNEX                                 | BALMER RD                              | PORTER CENTER     | NY    | 14131          | 103c 3016              | Ν                | N               | 2/12/1988               |
| ARMY             | AMHERST ARMY RESERVE<br>CENTER                        | 100 N FOREST RD                        | BUFFALO           | NY    | 14221          | 3010 103c              | Ν                | N               | 8/22/1990               |
| ARMY             | BELLMORE MAINTENANCE<br>FACILITY                      | 2755 MAPLE AVE                         | BELLMORE          | NY    | 11710          | 3010 3016<br>103c      | Ν                | Ν               | 2/12/1988               |
| ARMY             | ELIHU ROOT ARMY RESERVE<br>CENTER                     | 96 BURRSTONE RD                        | UTICA             | NY    | 13502          | 3010 103c              | Ν                | N               | 9/27/1991               |
| ARMY             | FARMINGDALE<br>ORGANIZATIONAL<br>MAINTENANCE SHOP #43 | 25 BAITING PLACE ROAD                  | FARMINGDALE       | NY    | 11735          | 3010 103c              | N                | N               | 2/5/1993                |
| ARMY             | FLOYD ANNEX SITE                                      | KOENING ROAD                           | FLOYD             | NY    | 13440          | 103c                   | N                | N               | 4/11/1995               |

| Agency                     | Facility Name  | Facility Address                                 | City           | State | Zip<br>Code | Reporting<br>Mechanism         | NFRAP<br>Status* | NPL<br>Status** | Date Added<br>to Docket |
|----------------------------|--|--|----------------|-------|-------------|--------------------------------|------------------|-----------------|-------------------------|
| ARMY                       | FORT DRUM #8   | BTWN RTS 3 & 11                                  | WATERTOWN      | NY    | 13601       | 3005 3010<br>3016 103c<br>103a | U                | N               | 2/12/1988               |
| ARMY                       | FORT HAMILTON  | FT HAMILTON                                      | BROOKLYN       | NY    | 11252       | 3010 103c<br>3016              | N                | Ν               | 2/12/1988               |
| ARMY                       | FORT TOTTEN  | BAYSIDE  | QUEENS         | NY    | 11359       | 3010 103c<br>3016              | N                | Ν               | 2/12/1988               |
| RMY                        | MAJ J O'DONOVAN AFR<br>CENTER                            | 90 N MAIN AVE                                    | ALBANY         | NY    | 12203       | 3010                           |                  |                 | 7/1/2002                |
| RMY                        | NIAGARA FALLS FACILITY                                   | 9400 PORTER ROAD                                 | NIAGARA FALLS  | NY    |             | 103a                           | N                | N               | 2/5/1993                |
| RMY                        | PFC CHARLES DEGLOPPER<br>ARMY RESERVE CENTER             | 2393 COLVIN BLVD                                 | TONAWANDA      | NY    | 14150       | 3010 103c                      | N                | Ν               | 8/22/1990               |
| ARMY                       | ROCHESTER COMBINED<br>SUPPORT SHOP & US FISCAL<br>OFFICE | 1500 HENRIETTA RD                                | ROCHESTER      | NY    | 14623       | 103c 3010                      | N                | N               | 6/27/1997               |
| RMY                        | ROOSEVELT ARMY RESERVE<br>CENTER                         | 101 OAK ST                                       | HEMPSTEAD      | NY    | 11550       | 3010 103c                      | N                | Ν               | 2/12/1988               |
| RMY                        | SAGE COMPLEX   | 510 STEWART DR W                                 | NORTH SYRACUSE | NY    | 13212       | 3010 103c                      | Ν                | N               | 11/10/1993              |
| RMY                        | SENECA ARMY DEPOT  | 5786 STATE ROUTE 96                              | ROMULUS        | NY    | 14541       | 3005 3010<br>3016 103c         | U                | F               | 2/12/1988               |
| ARMY                       | STEWART ANNEX/SUBPOST                                    | USMA NEWBURG LANDFILL,<br>STEWART AIRPORT, RT 17 | NEWBURG        | NY    | 12550       | 3016 3010<br>103c              | N                | N               | 11/16/1988              |
| ARMY                       | TSG H.C. LOCKWOOD ARMY<br>RESERVE CENTER                 | 111 FINNEY BLVD                                  | MALONE         | NY    | 12953       | 3010 103c                      | N                | N               | 9/27/1991               |
| ARMY                       | WATERVLIET ARSENAL                                       | BROADWAY   | WATERVLIET     | NY    | 12189       | 3005 3010<br>3016 103a<br>103c | N                | Ν               | 2/12/1988               |
| ARMY                       | WEBSTER ARMY<br>MAINTENANCE SUPPORT<br>ACTIVITY-7        | 517 OLD RIDGE ROAD                               | WEBSTER        | NY    | 14580       | 3010 103c                      | Ν                | N               | 9/27/1991               |
| ARMY                       | WEST POINT MILITARY<br>ACADEMY                           | RT 9W - BLDG 733                                 | WEST POINT     | NY    | 10996       | 3005 3010<br>3016 103c<br>103a | N                | N               | 2/12/1988               |
| ARMY                       | YOUNGSTOWN WEEKEND<br>TRAINING SITE                      | BALMER RD  | YOUNGSTOWN     | NY    | 14174       | 103c 3016                      | N                | N               | 6/27/1997               |
| DEFENSE<br>OGISTICS AGENCY | VERONA DEFENSE FUEL<br>SUPPORT POINT                     | MAIN ST.   | VERONA         | NY    | 13478       | 3010 3016<br>103c              | N                | Ν               | 2/12/1988               |

| Agency               | Facility Name  | Facility Address        | City          | State | Zip<br>Code    | Reporting<br>Mechanism         | NFRAP<br>Status* | NPL<br>Status** | Date Added<br>to Docket |
|----------------------|--|-------------------------|---------------|-------|----------------|--------------------------------|------------------|-----------------|-------------------------|
| ENERGY               | BROOKHAVEN NATIONAL<br>LABORATORY                    | 53 BELL AVE BLDG 464    | UPTON         | NY    | 11973          | 3005 3010<br>3016 103a<br>103c | U                | F               | 2/12/1988               |
| ENERGY               | COLONIE INTERIM STORAGE<br>SITE                      | 1130 CENTRAL AVE        | COLONIE       | NY    | 12205          | 3005 3010<br>3016 103c         | Ν                | N               | 2/12/1988               |
| ENERGY               | KNOLLS ATOMIC POWER<br>LABORATORY                    | 2401 RIVER RD           | NISKAYUNA     | NY    | 12309          | 3005 3010<br>3016 103c         | Ν                | N               | 2/12/1988               |
| ENERGY               | KNOLLS ATOMIC POWER<br>LABORATORY-KESSELRING<br>SITE | ATOMIC PROJECT ROAD     | WEST MILTON   | NY    | 12020          | 3005 3010<br>3016 103c<br>103a | N                | Ν               | 2/12/1988               |
| ENERGY               | NIAGARA FALLS STORAGE<br>SITE                        | 1397 PLETCHER ROAD      | LEWISTOWN     | NY    | 14092          | 3016 103c                      | Ν                | N               | 11/16/1988              |
| GENERAL SERVICES     | S BROOKLYN INFORMATION<br>AGENCY                     | 29TH & 3RD AVE, DOOR 15 | BROOKLYN      | NY    | 11232          | 3010 103c                      | Ν                | N               | 2/12/1988               |
| GENERAL SERVICES     | S DLA/DNSC SCOTIA DEPOT                              | ROUTE 5                 | SCOTIA        | NY    | 12302-<br>1039 | 3016 103c                      |                  | N               | 12/29/2000              |
| GENERAL SERVICES     | S EMMANUEL CELLARD<br>FEDERAL BUILDING               | 225 CADMAN PLAZA        | BROOKLYN      | NY    | 11201          | 3010 103c                      | Ν                | N               | 2/12/1988               |
| GENERAL SERVICES     | S FEDERAL BUILDING                                   | 252 7TH AVE             | NEW YORK      | NY    | 10001          | 3010 103c                      | N                | Ν               | 2/12/1988               |
| GENERAL SERVICES     | S MERCHANDISE CONTROL<br>SALES SECTION               | 6 WORLD TRADE CENTER    | NEW YORK      | NY    | 10048          | 3010 103c                      | N                | Ν               | 2/12/1988               |
| GENERAL SERVICES     | S NEW YORK   | 201 VARICK ST           | NEW YORK      | NY    | 10014          | 3010 103c                      | N                | N               | 2/12/1988               |
| GENERAL SERVICES     | S PBS DLA DNSC<br>VOORHEESVILLE DEPOT                | 5850 DEPOT RD           | ALTAMONT      | NY    | 12009          | 3010                           |                  |                 | 6/12/2000               |
| HOMELAND<br>SECURITY | AIDS TO NAVIGATION TEAM                              | 7063 LIGHTHOUSE DRIVE   | SAUGERTIES    | NY    | 12477          | 3010 103c                      | N                | N               | 2/12/1988               |
| HOMELAND<br>SECURITY | MORICHES COAST GUARD<br>GROUP                        | 100 MORICHES ISLAND RD  | EAST MORICHES | NY    | 11940          | 3010 103c                      | Ν                | Ν               | 12/15/1989              |
| HOMELAND             | PLUM ISLAND ANIMAL<br>DISEASE CENTER                 | ROUTE 25                | ORIENT POINT  | NY    | 11957          | 3016 103c<br>3010              | Ν                | N               | 2/12/1988               |

| Agency               | Facility Name   | Facility Address   | City              | State | Zip<br>Code | Reporting<br>Mechanism | NFRAP<br>Status* | NPL<br>Status** | Date Added<br>to Docket |
|----------------------|---|--|-------------------|-------|-------------|------------------------|------------------|-----------------|-------------------------|
| HOMELAND<br>SECURITY | SHINNECOCK COAST GUARD<br>STATION                       | SHINNECOCK STATION   | HAMPTON BAYS      | NY    | 11946       | 3010 103c              | N                | N               | 12/15/1989              |
| HOMELAND<br>SECURITY | SUPPORT CENTER<br>GOVERNOR'S ISLAND                     | C/O US COAST GUARD GROUP   | GOVERNOR'S ISLAND | NY    | 10004       | 3010 103c              | Ν                | N               | 2/12/1988               |
| INTERIOR             | FWS-IROQUOIS NATIONAL<br>WILDLIFE REFUGE                | PO BOX 517   | ALABAMA           | NY    | 14003       | 3016 103c              | N                | N               | 2/12/1988               |
| INTERIOR             | FWS-MONTEZUMA NATIONAL<br>WILDLIFE REFUGE               | 3395 ROUTE 5 & 20 EAST   | SENECA FALLS      | NY    | 13148       | 3010 3016<br>103c      | N                | N               | 2/12/1988               |
| INTERIOR             | NPS-FIRE ISLAND NATIONAL<br>SEASHORE                    | 120 LAUREL STREET  | PATCHOGUE         | NY    | 11772       | 3016 3010<br>103c      | N                | N               | 11/16/1988              |
| INTERIOR             | NPS-GATEWAY NATIONAL<br>RECREATIONAL AREA               | FLOYD BENNETT FIELD  | BROOKLYN          | NY    | 11234       | 103c 3010              | N                | N               | 8/22/1990               |
| INTERIOR             | NPS-SARATOGA NATIONAL<br>HISTORICAL PARK                | 648 RT 32  | STILLWATER        | NY    | 12170       | 103c                   | N                | Ν               | 11/10/1993              |
| INTERIOR             | NPS-STATUE OF LIBERTY<br>NATL MONUMENT: ELLIS<br>ISLAND | LIBERTY ISLAND   | NEW YORK          | NY    | 10004       | 3010 103c              | N                | Ν               | 11/10/1993              |
| INTERIOR             | NPS-UNITED NUCLEAR                                      | OLD RTE. 55  | PAWLING           | NY    | 12564       | 103c 3010              | N                | N               | 2/12/1988               |
| INTERIOR             | PENNSYLVANIA<br>AVE/FOUNTAIN AVE<br>LANDFILLS           | PENNSYLVANIA AVE, SHORE<br>PKWY  | BROOKLYN          | NY    | 11207       | 3010 103c              | N                | Ν               | 2/12/1988               |
| NAVY                 | BETHPAGE NAVAL<br>WEAPONS INDUSTRIAL<br>RESERVE PLANT   | S. OYSTER BAY RD.  | BETHPAGE          | NY    | 11714       | 3016 103c              | U                | Ν               | 2/12/1988               |
| NAVY                 | BROOKLYN NAVAL AND<br>MARINE CORPS RESERVE<br>CENTER    | FLOYD BENNETT FIELD  | BROOKLYN          | NY    | 11234       | 103c                   | Ν                | N               | 2/12/1988               |
| NAVY                 | FISHER'S ISLAND NAVAL<br>UNDERWATER SYSTEMS<br>CENTER   | FISHER'S ISLAND  | FISHER'S ISLAND   | NY    | 06380       | 3010 3016<br>103c      | U                | Ν               | 2/12/1988               |
| NAVY                 | FORT WADSWORTH  | FT. WADSWORTH  | STATEN ISLAND     | NY    | 10305       | 3010 103c              | N                | N               | 11/16/1988              |
| NAVY                 | MITCHEL FIELD HOUSING<br>FACILITY                       | NAVSTA NEW YORK HOUSING<br>OFFICE, BLDG. 19, WEST<br>ROAD, MITCHEL FIELD | GARDEN CITY       | NY    | 11530       | 103c 3010              | N                | Ν               | 9/27/1991               |
| NAVY                 | MITCHEL MANOR HOUSING<br>FACILITY                       | NAVSTA NEW YORK HOUSING<br>OFFICE, 85 A MITCHEL<br>AVENUE                | EAST MEADOW       | NY    | 11554       | 103c                   | N                | Ν               | 9/27/1991               |

| Agency                             | Facility Name  | Facility Address                        | City          | State | Zip<br>Code | Reporting<br>Mechanism | NFRAP<br>Status* | NPL<br>Status** | Date Added<br>to Docket |
|------------------------------------|--|---|---------------|-------|-------------|------------------------|------------------|-----------------|-------------------------|
| NAVY                               | NAVAL WEAPONS<br>INDUSTRIAL RESERVE<br>PLANT CALVERTON   | GRUMMAN BLVD                            | CALVERTON     | NY    | 11933       | 103c 3016              | U                | N               | 2/12/1988               |
| NAVY                               | NEW YORK NAVAL STATION                                   | 207 FLUSHING AVE                        | BROOKLYN      | NY    | 11251       | 3010 103c              | N                | N               | 2/12/1988               |
| NAVY                               | ROCHESTER NAVAL<br>INDUSTRIAL RESERVE<br>ORDINANCE PLANT | 121 LINCOLN AVENUE                      | ROCHESTER     | NY    | 14653       | 103c                   | N                | Ν               | 7/17/1992               |
| NAVY                               | STAPLETON NAVAL STATION                                  | STAPLETON                               | STATEN ISLAND | NY    | 10304       | 3010 103c              | N                | Ν               | 9/27/1991               |
| POSTAL SERVICE                     | BINGHAMTON POST OFFICE                                   | 111 HENRY STREET                        | BINGHAMTON    | NY    | 13902       | 3010 103c              | N                | N               | 2/5/1993                |
| POSTAL SERVICE                     | MANHATTAN GENERAL MAIL<br>FACILITY                       | WEST 29TH ST AND 9TH AVE                | NEW YORK      | NY    | 10001       | 3010 103c              | Ν                | N               | 7/17/1992               |
| POSTAL SERVICE                     | US POSTAL SERVICE - JAF<br>BLDG                          | 8TH AVE & 33RD STREET                   | NEW YORK      | NY    | 10199       | 3010                   | Ν                | N               | 12/29/2000              |
| TRANSPORTATION                     | WEST SAYVILLE IFS<br>TRANSMITTER                         | CHERRY AVE                              | WEST SAYVILLE | NY    | 11796       | 3010 3016<br>103c      | Ν                | N               | 9/27/1991               |
| VETERANS AFFAIRS                   | CASTLE POINT HOSPITAL                                    | RTE. 9D                                 | CASTLE PT.    | NY    | 12511       | 3010 103c              | Ν                | Ν               | 2/12/1988               |
| ARMY                               | FORT ALLEN   | ROUTE 1                                 | JUANA DIAZ    | PR    | 00665       | 103c 3010<br>3016      | Ν                | N               | 2/12/1988               |
| ARMY                               | FORT BUCHANAN  | ROUTE 28                                | SAN JUAN      | PR    | 00934       | 3005 3010<br>103c 3016 | N                | N               | 2/12/1988               |
| ARMY                               | NEW ARMY AVIATION<br>SUPPORT                             | ISLA GRANDE ROAD OFF<br>HACIA FERNANDEZ | SAN JUAN      | PR    |             | 103c                   | Ν                | N               | 12/29/2000              |
| ARMY                               | PUERTO RICO ARMY<br>NATIONAL GUARD - CAMP<br>SANTIAGO    | RD 1 KM 3.6 - TRAINING SITE             | SALINAS       | PR    | 00751       | 103c 3010<br>3016      | N                | Ν               | 11/16/1988              |
| ENERGY                             | CENTER FOR ENERGY AND<br>ENVIRONMENTAL<br>RESEARCH       | ROAD 108 KM 1.1                         | MAYAQUEZ      | PR    | 00708       | 3016 103c<br>3010      | N                | Ν               | 11/16/1988              |
| GENERAL SERVICES<br>ADMINISTRATION | SAN JUAN POST OFFICE & COURTHOUSE                        | COMERCIO ST & TANCA ST                  | SAN JUAN      | PR    | 00906       | 3010 103c              | N                | N               | 11/23/1998              |
| HOMELAND<br>SECURITY               | BORINQUEN COAST GUARD<br>AIR STATION                     | RAMEY AIR FORCE BASE                    | AQUADILLA     | PR    | 00604       | 3010 103c              | Ν                | N               | 2/12/1988               |
| INTERIOR                           | FWS-CULEBRA NATIONAL<br>WILDLIFE REFUGE                  | P.O. BOX 190                            | CULEBRA       | PR    | 00775       | 3016                   |                  |                 | 7/11/2003               |

| Agency   | Facility Name  | Facility Address                                | City        | State | Zip<br>Code    | Reporting<br>Mechanism | NFRAP<br>Status* | NPL<br>Status** | Date Added<br>to Docket |
|----------|--|---|-------------|-------|----------------|------------------------|------------------|-----------------|-------------------------|
| INTERIOR | FWS-DESECHEO NATIONAL<br>WILDLIFE REFUGE               | P.O. BOX 510                                    | BOQUERON    | PR    | 00622-<br>0510 | 3016                   |                  |                 | 7/11/2003               |
| NAVY     | CEIBA NAVAL STATION                                    | ROOSEVELT ROADS                                 | CEIBA       | PR    | 00635          | 3005 3010<br>3016 103c | Ν                | Ν               | 2/12/1988               |
| NAVY     | ROOSEVELT ROADS NAVAL<br>STATION                       | VILLA VERDE STREET<br>DRYDOCK & REPAIR FACILITY | MIRAMAR     | PR    | 00903          | 3005 3010<br>3016 103c | Ν                | Ν               | 2/12/1988               |
| NAVY     | SABANA SECA NAVAL<br>SECURITY GROUP ACTIVITY           | ROUTE 866                                       | SABANA SECA | PR    | 00952          | 3010 3016<br>103c      | U                | D               | 2/12/1988               |
| NAVY     | SAN JUAN NAS HANGAR 21                                 | PORT OF SAN JUAN HARBOR                         | SAN JUAN    | PR    | 906            | 3016 103c              | N                | N               | 4/11/1995               |
| NAVY     | VIEQUES EAST   | VIEQUES   | VIEQUES     | PR    | 00765          | 103c 3005<br>3010 3016 | Ν                | Ν               | 2/12/1988               |
| NAVY     | VIEQUES NAVAL<br>AMMUNITION FACILITY                   | ROUTE 70  | VIEQUES     | PR    | 00765          | 3005 3010<br>3016 103c | Ν                | Ν               | 2/12/1988               |
| ARMY     | BLAIR HANGAR ARMY AIR<br>SUPPORT FACILITY              | ALEX HAMILTON AIRPORT                           | ST. CROIX   | VI    | 00850          | 3016 103c              | Ν                | Ν               | 4/11/1995               |
| INTERIOR | FLAMINGO BAY ARMY TEST<br>AREAS-FORMER FORT<br>SEGARRA | WATER ISLAND                                    | ST. THOMAS  | VI    | 00802          | 103c                   |                  | N               | 6/12/2000               |

\*NFA Status Codes:

NFA = No further action

U = Status undetermined

\*\*NPL Status Codes:

N = Not on NPL

F = Final on NPL

A = Combined with another site. Site is part of NPL site

D = Deleted from final NPL

O = Not a CERCLIS report

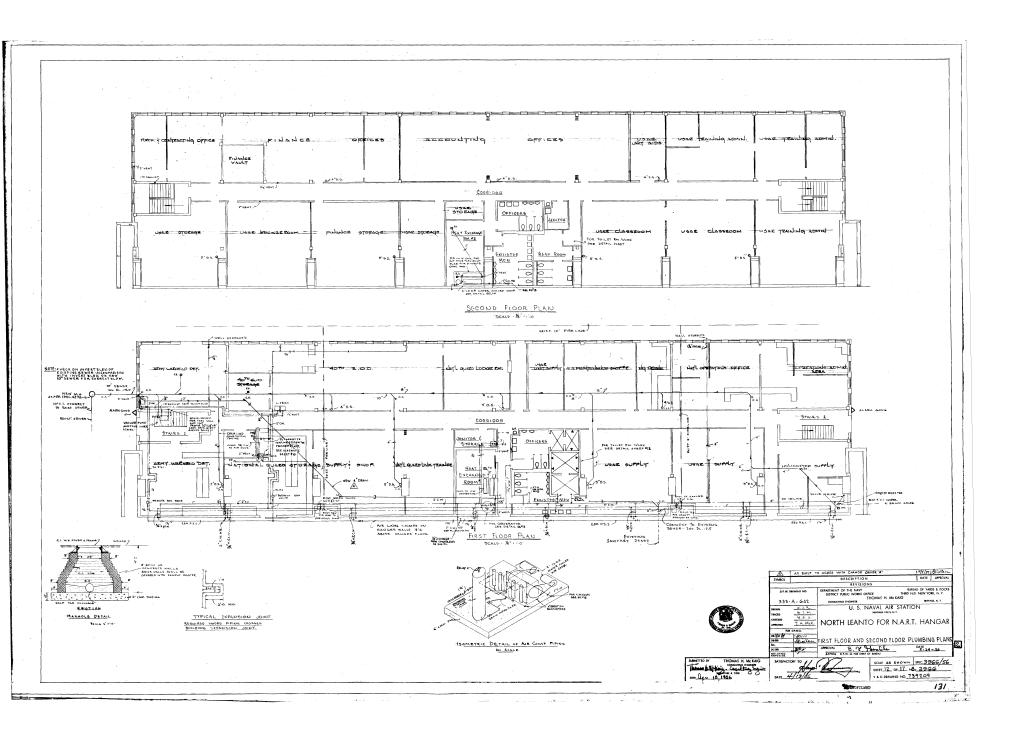
P = Proposed for NPL

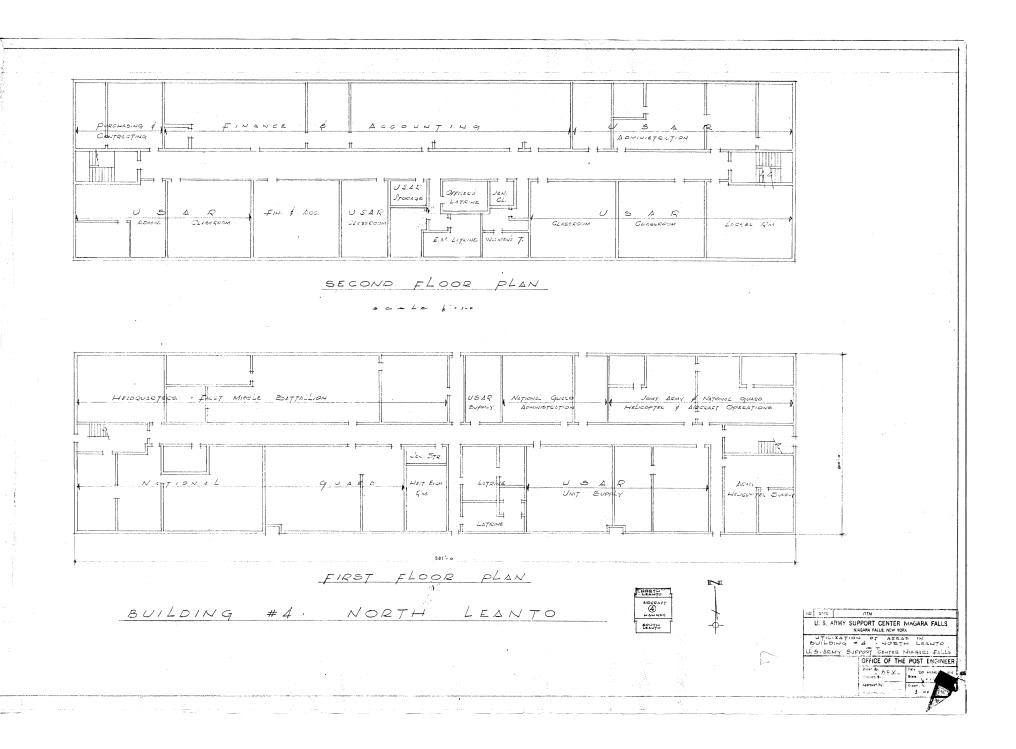
R = Removed from the proposed NPL and no longer considered for the final NPL

S = Pre-proposal site for the NPL

W = Withdrawn

U = Status undetermined





Appendix E Regulatory Database Search Reports



# The EDR Radius Map with GeoCheck<sup>®</sup>

Niagara Falls USARC/AMSA 76, NY 9400 PORTER ROAD NIAGARA FALLS, NY 14304

Inquiry Number: 01714247.26r

July 13, 2006

# The Standard in Environmental Risk Management Information

440 Wheelers Farms Road Milford, Connecticut 06461

## **Nationwide Customer Service**

 Telephone:
 1-800-352-0050

 Fax:
 1-800-231-6802

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 www.edrnet.com

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| Orphan Summary                                     | 53   |
| Government Records Searched/Data Currency Tracking | GR-1 |

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

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### TARGET PROPERTY INFORMATION

### ADDRESS

9400 PORTER ROAD NIAGARA FALLS, NY 14304

## COORDINATES

| Latitude (North):             | 43.100200 - 43° 6' 0.7"   |
|-------------------------------|---------------------------|
| Longitude (West):             | 78.954900 - 78° 57' 17.6" |
| Universal Tranverse Mercator: | Zone 17                   |
| UTM X (Meters):               | 666428.7                  |
| UTM Y (Meters):               | 4773757.0                 |
| Elevation:                    | 577 ft. above sea level   |

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: Most Recent Revision: 43078-A8 TONAWANDA WEST, NY 1980

### TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following government records. For more information on this property see page 6 of the attached EDR Radius Map report:

| Site  | Database(s)                                      | EPA ID       |
|---|--|--------------|
| 9400 PORTER ROAD<br>9400 PORTER ROAD<br>NIAGRA FALLS, NY                    | ERNS   | N/A          |
| NYARNG NYARNG AASF 2<br>9400 PORTER RD - AFRC<br>NIAGARA FALLS, NY 14304    | RCRA-SQG<br>FINDS<br>NY MANIFEST                 | NY5210524273 |
| ARMED FORCES RESERVE CENTER<br>9400 PORTER RD<br>NIAGARA FALLS, NY 14304    | RCRA-SQG<br>CERC-NFRAP<br>NY MANIFEST            | NY8210424273 |
| US ARMY VEHICLE WASH<br>9400 PORTER RD<br>NIAGARA FALLS, NY 14304           | FINDS  | 110019236940 |
| NIAGARA FALLS AFRC/AMSA #76(G)<br>9400 PORTER RD<br>NIAGARA FALLS, NY 14304 | UST<br>AST<br>NY Spills<br>Date Closed: 02/22/00 | N/A          |
|   | NY Hist Spills                                   |              |

| NIAGARA FALLS RESERVE CENTER<br>9400 PORTER RD<br>NIAGARA FALLS, NY 14304 | RCRA-SQG  | NYD981875206 |
|---|---|--------------|
| ARMY RESERVES<br>9400 PORTER ROAD<br>NIAGARA FALLS, NY                    | NY Spills<br>Date Closed: 03/06/92<br>NY Hist Spills        | N/A          |
| NIAGARA FALLS AIRPORT<br>9400 PORTER ROAD NFAFB<br>NIAGARA FALLS, NY      | NY Spills<br>Date Closed: 11/15/93<br>Date Closed: 03/28/00 | N/A          |
|   | NY Hist Spills  |              |
| FORT DRUM ARM SERVICES<br>9400 PORTER RD<br>NIAGARA FALLS, NY 14304       | NY MANIFEST   | N/A          |

## DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

### FEDERAL RECORDS

| NPL          | - National Priority List  |
|--------------|---|
|              | Proposed National Priority List Sites   |
|              | . National Priority List Deletions  |
| NPL RECOVERY |   |
|              | Comprehensive Environmental Response, Compensation, and Liability Information |
|              | System  |
| CORRACTS     |   |
|              | Resource Conservation and Recovery Act Information                            |
|              | Resource Conservation and Recovery Act Information                            |
|              | - Hazardous Materials Information Reporting System                            |
|              | . Engineering Controls Sites List   |
|              | Sites with Institutional Controls   |
|              | _ Department of Defense Sites   |
|              | Formerly Used Defense Sites   |
|              | _ A Listing of Brownfields Sites  |
|              | _ Superfund (CERCLA) Consent Decrees  |
| ROD          |   |
| UMTRA        |   |
| ODI          |   |
|              | Toxic Chemical Release Inventory System                                       |
|              | _ Toxic Substances Control Act  |
|              | - 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   |
|       | PCB Activity Database System               |
| MLTS  | _ Material Licensing Tracking System       |
| MINES | Mines Master Index File                    |
| RAATS | RCRA Administrative Action Tracking System |

### STATE AND LOCAL RECORDS

| SHWS.<br>DEL SHWS.<br>SWF/LF.<br>SWRCY.<br>SWTIRE<br>CBS UST.<br>MOSF UST.<br>CBS AST.<br>MOSF AST.<br>ENG CONTROLS.<br>INST CONTROL.<br>VCP.<br>DRYCLEANERS.<br>BROWNFIELDS. | <ul> <li>Facility Register</li> <li>Registered Recycling Facility List</li> <li>Registered Waste Tire Storage &amp; Facility List</li> <li>Chemical Bulk Storage Database</li> <li>Major Oil Storage Facilities Database</li> <li>Chemical Bulk Storage Database</li> <li>Major Oil Storage Facilities Database</li> <li>Registry of Engineering Controls</li> <li>Registry of Institutional Controls</li> <li>Voluntary Cleanup Agreements</li> <li>Registered Drycleaners</li> <li>Brownfields Site List</li> </ul> |
|---|---|
| SPDES<br>AIRS   | <ul> <li>State Pollutant Discharge Elimination System</li> <li>Air Emissions Data</li> </ul>  |
|   |   |

### TRIBAL RECORDS

INDIAN RESERV..... Indian Reservations

#### EDR PROPRIETARY RECORDS

Manufactured Gas Plants\_\_\_\_ EDR Proprietary Manufactured Gas Plants EDR Historical Auto StationsEDR Proprietary Historic Gas Stations EDR Historical Cleaners\_\_\_\_ EDR Proprietary Historic Dry Cleaners

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed

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

**CERCLIS-NFRAP:** 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.

A review of the CERC-NFRAP list, as provided by EDR, and dated 02/01/2006 has revealed that there is 1 CERC-NFRAP site within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address                | Dist / Dir   | Map ID | Page |
|------------------------|------------------------|--------------|--------|------|
| DIBACC0 LF SITE 1      | PORTER & TUSCARORA RDS | 1/4 - 1/2WN\ | N 16   | 45   |

### STATE AND LOCAL RECORDS

**LTANKS:** Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills

A review of the LTANKS list, as provided by EDR, and dated 04/05/2006 has revealed that there are 7 LTANKS sites within approximately 0.5 miles of the target property.

| Lower Elevation                                   | Address                 | Dist / Dir    | Map ID | Page |
|---|-------------------------|---------------|--------|------|
| CAYUGA VILLAGE<br>Date Closed: 05/01/91           | 512 B STREET            | 1/4 - 1/2SSW  | 12     | 32   |
| RAUSMANN RESIDENCE<br>Date Closed: 06/08/95       | 431 A STREET            | 1/4 - 1/2 S   | 13     | 35   |
| DUNN TIRE<br>Date Closed: 11/12/04                | 9540 NIAGARA FALLS BLVD | 1/4 - 1/2 SSE | 14     | 37   |
| CAYUGA VILLAGE<br>Date Closed: 02/22/91           | 640 C STREET            | 1/4 - 1/2 SW  | 15     | 42   |
| CAYUGA VILL. MOBILE PARK<br>Date Closed: 08/22/89 | NIAGARA FALLS BLVD.     | 1/4 - 1/2 S   | 17     | 45   |
| RAINBOW TIRE<br>Date Closed: 07/22/96             | 9340 NIAGARA FALLS BLVD | 1/4 - 1/2 S   | 18     | 47   |
| MARIA HEALEY (HOME)<br>Date Closed: 02/22/91      | 9200 NIAGARA FALLS BLVD | 1/4 - 1/2 SSW | 19     | 50   |

**HIST LTANKS:** A listing of leaking underground and aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills. In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY LTANKS database.

A review of the HIST LTANKS list, as provided by EDR, and dated 01/01/2002 has revealed that there

are 7 HIST LTANKS sites within approximately 0.5 miles of the target property.

| Lower Elevation          | Address                 | Dist / Dir    | Map ID | Page |
|--------------------------|-------------------------|---------------|--------|------|
| CAYUGA VILLAGE           | 512 B STREET            | 1/4 - 1/2SSW  | 12     | 32   |
| RAUSMANN RESIDENCE       | 431 A STREET            | 1/4 - 1/2 S   | 13     | 35   |
| DUNN TIRE                | 9540 NIAGARA FALLS BLVD | 1/4 - 1/2 SSE | 14     | 37   |
| CAYUGA VILLAGE           | 640 C STREET            | 1/4 - 1/2SW   | 15     | 42   |
| CAYUGA VILL. MOBILE PARK | NIAGARA FALLS BLVD.     | 1/4 - 1/2 S   | 17     | 45   |
| RAINBOW TIRE             | 9340 NIAGARA FALLS BLVD | 1/4 - 1/2 S   | 18     | 47   |
| MARIA HEALEY (HOME)      | 9200 NIAGARA FALLS BLVD | 1/4 - 1/2SSW  | 19     | 50   |

**UST:** The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the UST list, as provided by EDR, and dated 01/01/2002 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

| Equal/Higher Elevation  | Address       | Dist / Dir  | Map ID | Page |
|-------------------------|---------------|-------------|--------|------|
| CECOS INTERNATIONAL INC | BOX 340 L P O | 0 - 1/8 ENE | 11     | 24   |

**AST:** The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database.

A review of the AST list, as provided by EDR, and dated 01/01/2002 has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

| Equal/Higher Elevation  | Address       | Dist / Dir  | Map ID | Page |
|-------------------------|---------------|-------------|--------|------|
| CECOS INTERNATIONAL INC | BOX 340 L P O | 0 - 1/8 ENE | 11     | 24   |

**SPILLS:** Data collected on spills reported to NYSDEC. is required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

A review of the NY Spills list, as provided by EDR, and dated 04/05/2006 has revealed that there is 1 NY Spills site within approximately 0.125 miles of the target property.

| Lower Elevation                              | Address          | Dist / Dir | Map ID | Page |
|--|------------------|------------|--------|------|
| NIAGARA MOHAWK POLE<br>Date Closed: 05/19/99 | 9401 PORTER ROAD | 0-1/8 W    | A10    | 22   |

**HIST SPILLS:** This database contains records of chemical and petroleum spill incidents. Under State law, petroleum and hazardous chemical spills that can impact the waters of the state must be reported by the spiller (and, in some cases, by anyone who has knowledge of the spills). In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY SPILLS database.

A review of the NY Hist Spills list, as provided by EDR, and dated 01/01/2002 has revealed that there

is 1 NY Hist Spills site within approximately 0.125 miles of the target property.

| Lower Elevation     | Address          | Dist / Dir | Map ID | Page |
|---------------------|------------------|------------|--------|------|
| NIAGARA MOHAWK POLE | 9401 PORTER ROAD | 0-1/8 W    | A10    | 22   |

Due to poor or inadequate address information, the following sites were not mapped:

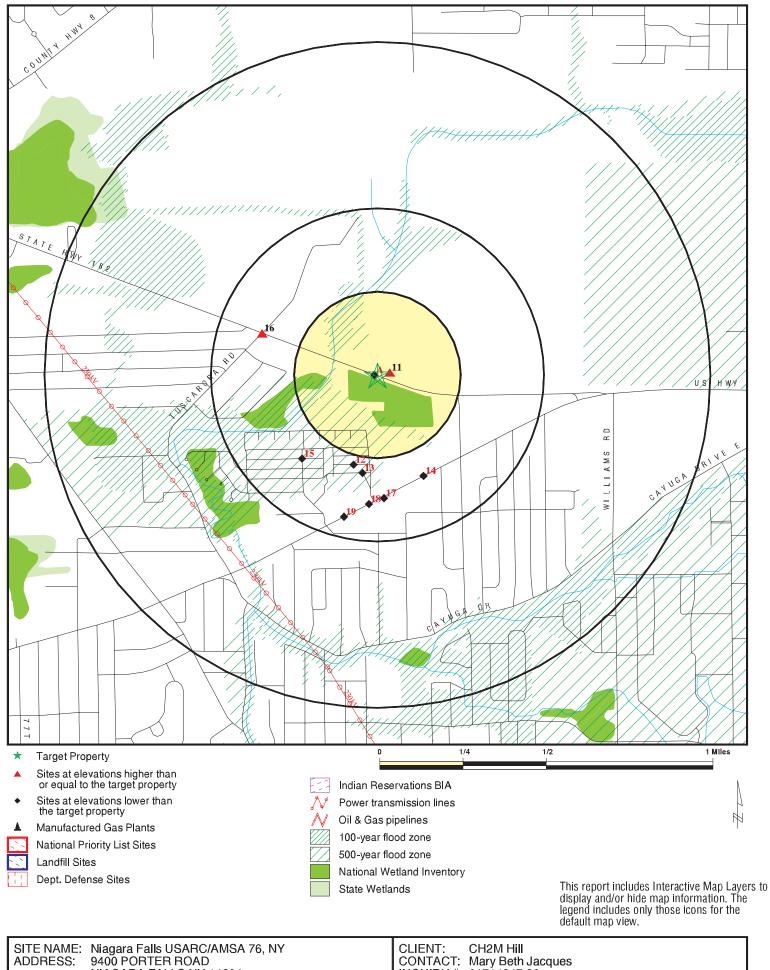
#### Site Name

NIAGARA RECYCLING NYSDOT LA SALLE ARTERIAL EXPRESSWA UNITED STATES MILITARY NIAGARA RECYCLING SABRE PARK - ANTHONY DRIVE AREA HOOKER-102ND STREET LANDFILL 102ND STREET LANDFILL (OLIN) NEW ROAD LF NIAGARA COUNTY CIVIC BUIL NIAGARA ST CORNER OF 25TH ST NIAGARA FALLS INTERNATIONAL AIRPOR NIAGARA STREET OVER GILL CREEK UNI-MART STORE #5010 SATARIAN AUTO PARTS NIAGARA MOHAWK NIAGARA FALLS AFB LEAKING TANKER TRUCK NIAGARA MOHAWK CAYUGA CREEK SIMON OIL OIL FROM UNKNOWN TRUCK **UNKNOWN VEHICLE ON I190** NIAGARA MOHAWK

NY MANIFEST RCRA-LQG, NY MANIFEST NY MANIFEST NY MANIFEST SHWS SHWS SHWS **CERC-NFRAP LTANKS** ERNS FINDS FINDS NY Spills, NY Hist Spills NY Spills, NY Hist Spills NY Spills, NY Hist Spills NY Spills NY Spills NY Spills, NY Hist Spills NY Spills NY Spills, NY Hist Spills

Database(s)

OVERVIEW MAP - 01714247.26r

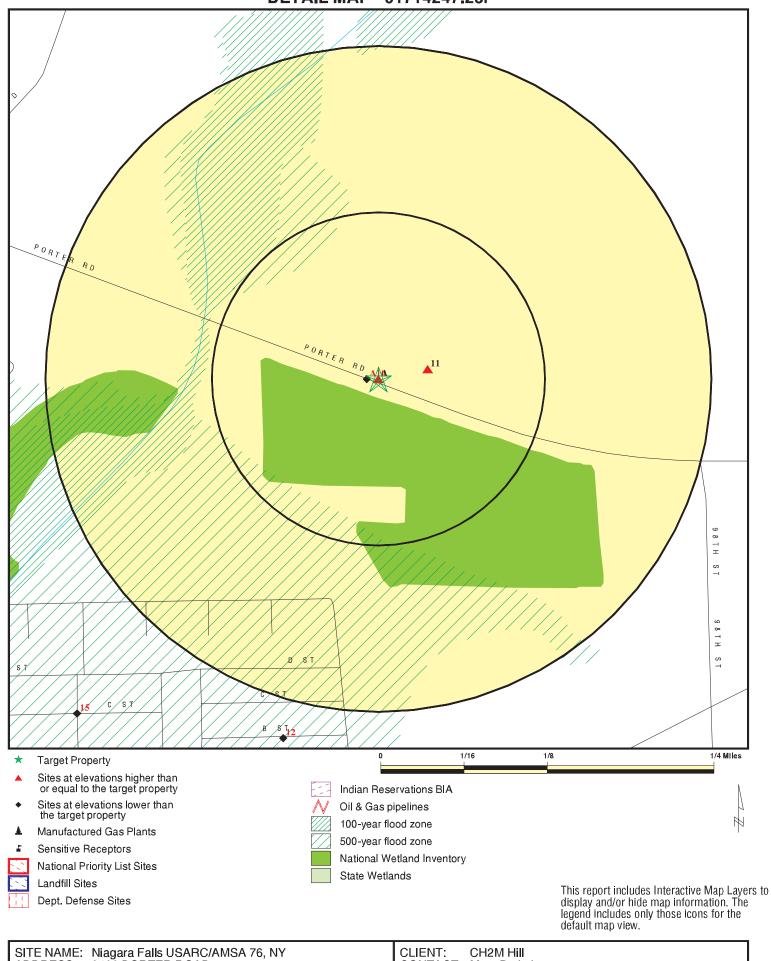


LAT/LONG:

INQUIRY #: 01714247.26r DATE: July 13, 2006

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## DETAIL MAP - 01714247.26r



ADDRESS: 9400 PORTER ROAD NIAGARA FALLS NY 14304 LAT/LONG: 43.1002 / 78.9549 CLIENT: CH2M Hill CONTACT: Mary Beth Jacques INQUIRY #: 01714247.26r DATE: July 13, 2006

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## MAP FINDINGS SUMMARY

| Database   | Target<br>Property | Search<br>Distance<br>(Miles)   | < 1/8   | 1/8 - 1/4  | 1/4 - 1/2   | 1/2 - 1  | > 1  | Total<br>Plotted   |
|--|--------------------|---|---|--|---|--|--|--|
| FEDERAL RECORDS  |                    |   |   |  |   |  |  |  |
| NPL<br>Proposed NPL<br>Delisted NPL<br>NPL RECOVERY<br>CERCLIS<br>CERC-NFRAP<br>CORRACTS<br>RCRA TSD<br>RCRA Lg. Quan. Gen.<br>ERNS<br>HMIRS<br>US ENG CONTROLS<br>US INST CONTROL<br>DOD<br>FUDS<br>US BROWNFIELDS<br>CONSENT<br>ROD<br>UMTRA<br>ODI<br>TRIS<br>TSCA<br>FTTS<br>SSTS<br>ICIS<br>PADS<br>MLTS<br>MINES<br>FINDS<br>RAATS | X<br>X<br>X        | 1.000<br>1.000<br>TP<br>0.500<br>0.500<br>1.000<br>0.250<br>0.250<br>0.250<br>0.250<br>TP<br>TP<br>0.500<br>0.500<br>1.000<br>1.000<br>1.000<br>1.000<br>1.000<br>0.500<br>1.000<br>0.500<br>TP<br>TP<br>TP<br>TP<br>TP<br>TP<br>TP<br>TP<br>TP<br>TP<br>TP   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0 0 0 R 0 0 0 0 0 R R 0 0 0 0 0 0 0 0 0                            | 0 0 0 R 0 1 0 0 R R R R 0 0 0 0 0 0 0 0                           | 0<br>0<br>0<br>NR<br>NR<br>0<br>NR<br>NR<br>NR<br>NR<br>NR<br>NR<br>NR<br>NR<br>NR<br>NR<br>NR<br>NR<br>NR | NR R R R R R R R R R R R R R R R R R R                                     | $ \begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ $ |
| STATE AND LOCAL RECOR  | RDS                |   |   |  |   |  |  |  |
| HSWDS<br>State Haz. Waste<br>DEL SHWS<br>State Landfill<br>SWRCY<br>SWTIRE<br>LTANKS<br>HIST LTANKS<br>UST<br>CBS UST<br>MOSF UST<br>AST<br>CBS AST<br>MOSF AST  | x<br>x             | 0.500<br>1.000<br>1.000<br>0.500<br>0.500<br>0.500<br>0.500<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.250<br>0.500 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>1<br>0<br>0<br>1<br>0<br>0                          | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>7<br>7<br>NR<br>NR<br>0<br>NR<br>0<br>NR<br>0 | NR<br>0<br>NR<br>NR<br>NR<br>NR<br>NR<br>NR<br>NR<br>NR<br>NR  | NR<br>NR<br>NR<br>NR<br>NR<br>NR<br>NR<br>NR<br>NR<br>NR<br>NR<br>NR<br>NR | 0<br>0<br>0<br>0<br>7<br>7<br>1<br>0<br>0<br>1<br>0                      |

## **MAP FINDINGS SUMMARY**

| Database  | Target<br>Property | Search<br>Distance<br>(Miles) | < 1/8         | 1/8 - 1/4     | 1/4 - 1/2     | 1/2 - 1       | > 1            | Total<br>Plotted |
|---|--------------------|-------------------------------|---------------|---------------|---------------|---------------|----------------|------------------|
| MANIFEST  | Х                  | 0.250                         | 0             | 0             | NR            | NR            | NR             | 0                |
| NY Spills   | Х                  | 0.125                         | 1             | NR            | NR            | NR            | NR             | 1                |
| NY Hist Spills  | Х                  | 0.125                         | 1             | NR            | NR            | NR            | NR             | 1                |
| ENG CONTROLS  |                    | 0.500                         | 0             | 0             | 0             | NR            | NR             | 0                |
| INST CONTROL  |                    | 0.500                         | 0             | 0             | 0             | NR            | NR             | 0                |
| VCP   |                    | 0.500                         | 0             | 0             | 0             | NR            | NR             | 0                |
| DRYCLEANERS   |                    | 0.250                         | 0             | 0             | NR            | NR            | NR             | 0                |
| BROWNFIELDS   |                    | 0.500                         | 0             | 0             | 0             | NR            | NR             | 0                |
| SPDES   |                    | TP                            | NR            | NR            | NR            | NR            | NR             | 0                |
| AIRS  |                    | TP                            | NR            | NR            | NR            | NR            | NR             | 0                |
| TRIBAL RECORDS  |                    |                               |               |               |               |               |                |                  |
| INDIAN RESERV   |                    | 1.000                         | 0             | 0             | 0             | 0             | NR             | 0                |
| EDR PROPRIETARY RECO  | RDS                |                               |               |               |               |               |                |                  |
| Manufactured Gas Plants<br>EDR Historical Auto Stati<br>EDR Historical Cleaners |                    | 1.000<br>TP<br>TP             | 0<br>NR<br>NR | 0<br>NR<br>NR | 0<br>NR<br>NR | 0<br>NR<br>NR | NR<br>NR<br>NR | 0<br>0<br>0      |

### NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

| Map ID<br>Direction                   |   |  | MAP FINDINGS  | ]                                      |                                |
|---------------------------------------|---|--|---|--|--------------------------------|
| Distance<br>Distance (fl<br>Elevation | i.)<br>Site   |  |   | Database(s)                            | EDR ID Number<br>EPA ID Number |
| A1<br>Target<br>Property              | 9400 PORTER ROAI<br>9400 PORTER ROAI<br>NIAGRA FALLS, NY  | D  |   | ERNS                                   | 91231394<br>N/A                |
|                                       | Site 1 of 10 in cluste                                    | er A   |   |  |                                |
| Actual:<br>577 ft.                    |   | Click this h   | where the work of the second |  |                                |
|                                       |   |  | yperlink while viewing on your computer to access<br>ERNS detail in the EDR Site Report.  |  |                                |
| A2<br>Target<br>Property              | NYARNG NYARNG A<br>9400 PORTER RD - A<br>NIAGARA FALLS, N | AFRC   |   | RCRA-SQG<br>FINDS<br>NY MANIFEST       | 1000226530<br>NY5210524273     |
| Actual                                | Site 2 of 10 in cluste                                    | er A   |   |  |                                |
| Actual:<br>577 ft.                    | RCRAInfo:<br>Owner:                                       | US DEPT O<br>(212) 555-12                            |   |  |                                |
|                                       | EPA ID:   | NY5210524  |   |  |                                |
|                                       | Contact:  | Not reported   | 1   |  |                                |
|                                       | Classification:<br>TSDF Activities                        |  | tity Generator  |  |                                |
|                                       | Violation Status  | : No violation                                       | s found   |  |                                |
|                                       | RCRAInfo is<br>(RCRA) prog<br>transport, an               | a national info<br>gram through t<br>d treat, store, | al Activity Identified at Site:<br>ormation system that supports the Resource Conser<br>the tracking of events and activities related to facilitie<br>or dispose of hazardous waste. RCRAInfo allows R<br>it, compliance, and corrective action activities require  | es that generate, CRA program staff to | t                              |
|                                       | NY MANIFEST:  |  |   |  |                                |
|                                       | Document ID:  | _  | NYA7305138  |  |                                |
|                                       | Manifest Status<br>Trans1 State ID                        |  | C<br>000000000  |  |                                |
|                                       | Trans2 State ID   |  | 00000000  |  |                                |
|                                       | Generator Ship<br>Trans1 Recy Da                          |  | 890802<br>890802  |  |                                |
|                                       | Trans2 Recv Da  | ate:   | Not reported  |  |                                |
|                                       | TSD Site Recv<br>Part A Recv Da                           |  | 890808<br>890809  |  |                                |
|                                       | Part B Recv Da  |  | 890816  |  |                                |
|                                       | Generator EPA<br>Trans1 EPA ID:                           |  | NY5210524273<br>MDD980554653  |  |                                |
|                                       | Trans2 EPA ID:  |  | Not reported  |  |                                |
|                                       | TSDF ID:  |  | NCD000648451  |  |                                |
|                                       | Waste Code:<br>Quantity:                                  |  | D008 - LEAD 5.0 MG/L TCLP<br>00855  |  |                                |
|                                       | Units:  |  | G - Gallons (liquids only)* (8.3 pounds)  |  |                                |
|                                       | Number of Cont<br>Container Type                          |  | 016<br>DF - Fiberboard or plastic drums (glass)   |  |                                |
|                                       | Handling Metho  | od:  | B Incineration, heat recovery, burning.   |  |                                |
|                                       | Specific Gravity<br>Year:                                 |  | 100<br>89   |  |                                |
|                                       | Facility Type:  |  | 69<br>Generator   |  |                                |
|                                       | EPA ID:   |  |   |  |                                |
|                                       | Facility Name:<br>Facility Address                        | 5:   | UNITED STATES MILITARY-AASF #2<br>P. O. BOX F-LASALLE STATION   |  |                                |
|                                       |   |  |   |  |                                |

Database(s)

EDR ID Number EPA ID Number

### NYARNG NYARNG AASF 2 (Continued)

- Facility City: Facility Zip 4: Country: County: Mailing Name: Mailing Contact: Mailing Address: Mailing Address: Mailing City: Mailing State: Mailing Zip: Mailing Zip4: Mailing Country: Mailing Phone:
- NIAGARA FALLS Not reported ERIE UNITED STATES MILITARY Not reported AASF #2-P.O. BOX F-LASALLE STATION-NIAGARA FALLS NY 14304 Not reported Not reported 716-694-1477

<u>Click this hyperlink</u> while viewing on your computer to access 22 additional NY MANIFEST: record(s) in the EDR Site Report.

| A3<br>Target<br>Property | ARMED FORCES RI<br>9400 PORTER RD<br>NIAGARA FALLS, N<br>Site 3 of 10 in cluste  | IY 14304   | TER  |  | RCRA-SQG<br>CERC-NFRAP<br>NY MANIFEST<br>NJ MANIFEST<br>CT MANIFEST | 1000557597<br>NY8210424273 |
|--------------------------|--|--|--|--|---|----------------------------|
| Actual:<br>577 ft.       | CERCLIS-NFRAP<br>Federal Facility<br>Non NPL Code<br>NPL Status:<br>CERCLIS-NFRAP<br>Assessment:<br>Assessment:<br>Assessment:<br>CERCLIS-NFRAP<br>NIAGARA FALL                              | Classification<br>Not a Fe<br>Not on t<br>Assessment<br>DISCOV<br>PRELIM<br>ARCHIV<br>Alias Name(s | ederal Facility<br>he NPL<br>History:<br>/ERY<br>IINARY ASSESSMENT<br>/E SITE  | Completed:<br>Completed:<br>Completed: | 12/13/1994<br>02/15/1997<br>09/30/1997                              |                            |
|                          | RCRAInfo:<br>Owner:<br>EPA ID:<br>Contact:   | HQ 10TH M<br>(315) 772-57<br>NY82104242<br>DONNA HEI<br>(716) 297-75                               | 273<br>RMAN  |  |   |                            |
|                          | Classification:<br>TSDF Activities<br>Violation Status   | Not reported   |  |  |   |                            |
|                          | NY MANIFEST:<br>Document ID:<br>Manifest Status<br>Trans1 State ID<br>Generator Ship<br>Trans1 Recv D<br>Trans2 Recv D<br>TSD Site Recv<br>Part A Recv Da<br>Part B Recv Da<br>Generator EPA | ):<br>Date:<br>ate:<br>ate:<br>Date:<br>tte:<br>tte:   | NYB8186391<br>Not reported<br>NYD980769947<br>NJD080631369<br>10/11/2002<br>10/11/2002<br>10/11/2002<br>10/15/2002<br>Not reported<br>Not reported<br>NY8210424273 |  |   |                            |

Database(s)

EDR ID Number EPA ID Number

#### 1000557597

### ARMED FORCES RESERVE CENTER (Continued)

Trans1 EPA ID: Trans2 EPA ID: TSDF ID: Waste Code: Quantity: Units: Number of Containers: Container Type: Handling Method: Specific Gravity: Year: Facility Type: EPA ID: Facility Name: Facility Address: Facility City: Facility Zip 4: Country: County: Mailing Name: Mailing Contact: Mailing Address: Mailing City: Mailing State: Mailing Zip: Mailing Zip4: Mailing Country: Mailing Phone: Facility Type: EPA ID: Facility Name: Facility Address: Facility City: Facility Zip 4: Country: County: Mailing Name: Mailing Contact: Mailing Address: Mailing City: Mailing State: Mailing Zip: Mailing Zip4: Mailing Country: Mailing Phone:

OHD093945293 Not reported 2382B7NY F003 - UNKNOWN 00040 P - Pounds 001 DM - Metal drums, barrels B Incineration, heat recovery, burning. 01.00 02 Generator NYP000907187 UNITED STATES MILITARY 9400 PORTER ROAD NIAGARA FALLS Not reported Not reported NIAGARA UNITED STATES MILITARY JAMES HAYNES 9400 PORTER ROAD NIAGARA FALLS NY 14301 Not reported Not reported 716-297-7615 Generator NY8210424273 UNITED STATES MILITARY 9400 PORTER ROAD NIAGARA FALLS Not reported Not reported NIAGARA UNITED STATES MILITARY PATRICK A PATTERSON 9400 PORTER ROAD NIAGARA FALLS NY 14304 Not reported Not reported

<u>Click this hyperlink</u> while viewing on your computer to access 33 additional NY MANIFEST: record(s) in the EDR Site Report.

716-297-7615

NJ MANIFEST: Manifest Code: NJA3092096 EPA ID: NY8210424273 Date Shipped: 20040429 TSDF EPA ID: NJD980536593 TSDF Received Date: 040512 Transporter EPA ID: NJD080631369 Transporer Received Date: 040429

Database(s)

EDR ID Number EPA ID Number

### ARMED FORCES RESERVE CENTER (Continued)

| Waste Code:       | D003     |
|-------------------|----------|
| Quantity Shipped: | 40.00000 |
| Unit of Measure:  | Р        |
| Method Code:      | S01      |

## CT MANIFEST:

| I MANIFEST.               |                                    |
|---------------------------|------------------------------------|
| Year:                     | 1996                               |
| Manifest ID:              | CTF0486227                         |
| TSDF EPA ID:              | CTD000604488                       |
| TSDF Name:                | CLEAN HARBORS OF CONNECTICUT, INC. |
| TSDF Address:             | 51 BRODERICK RD                    |
| TSDF City,St,Zip:         | BRISTOL, CT 06010                  |
| TSDF Country:             | USA                                |
| TSDF Telephone:           | Not reported                       |
| Transport Date:           | 04/04/96                           |
| Transporter EPA ID:       | NYD980769947                       |
| Transporter Name:         | HAZMAT ENVIRONMENTAL GROUP         |
| Transporter Country:      | USA                                |
| Transporter Phone:        | Not reported                       |
| Trans 2 Date:             | //                                 |
| Trans 2 EPA ID:           | Not reported                       |
| Trans 2 Name:             | Not reported                       |
| Trans 2 Address:          | Not reported                       |
| Trans 2 City,St,Zip:      | СТ                                 |
| Trans 2 Country:          | USA                                |
| Trans 2 Phone:            | Not reported                       |
| Generator EPA ID:         | NY8210424273                       |
| Gererator Phone:          | 7162977909                         |
| Generator Address:        | Not reported                       |
| Generator City,State,Zip: | Not reported                       |
| Generator Country:        | Not reported                       |
| Special Handling:         | Not reported                       |
| Discrepancies:            | Yes                                |
| Date Shipped:             | 04/04/96                           |
| Date Received:            | 04/09/96                           |
| Last modified date:       | 04/26/04                           |
| Last modified by:         | IG                                 |
| Comments:                 | Not reported                       |
|                           |                                    |

<u>Click this hyperlink</u> while viewing on your computer to access additional CT MANIFEST: detail in the EDR Site Report.

## A4 US ARMY VEHICLE WASH Target 9400 PORTER RD

## Property NIAGARA FALLS, NY 14304

FINDS:

### Site 4 of 10 in cluster A

Actual: 577 ft.

Other Pertinent Environmental Activity Identified at Site:

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

## FINDS 1007761275 110019236940

| Map ID<br>Direction                   |  |                       | Λ                                 | IAP FINDING      | 3  |                         |                                |
|---------------------------------------|--|-----------------------|-----------------------------------|------------------|--|-------------------------|--------------------------------|
| Distance<br>Distance (ft<br>Elevation | .)<br>Site   |                       |                                   |                  |  | Database(s)             | EDR ID Number<br>EPA ID Number |
| A5<br>Target<br>Property              | NIAGARA FALLS AFF<br>9400 PORTER RD<br>NIAGARA FALLS, NY |                       | ≠76(G)                            |                  |  | UST<br>AST<br>NY Spills | U003316292<br>N/A              |
|                                       | Site 5 of 10 in cluster                                  | Α                     |                                   |                  |  | NY Hist Spills          |                                |
| Actual:<br>577 ft.                    | SPILLS:  |                       |                                   |                  |  |                         |                                |
| 01110                                 | DER Facility ID :  |                       |                                   |                  |  |                         |                                |
|                                       | Site ID :  | 246072                |                                   |                  | CID :<br>Decion of Spills                | 29                      |                                |
|                                       | Spill Number:<br>Investigator:                           | 9907461<br>SACALAN    | חו                                |                  | Region of Spill:<br>SWIS:                | 9<br>3211               |                                |
|                                       | Caller Name:   | RAVI AJC              |                                   |                  | Caller Agency:                           | ARMY RESERVES           |                                |
|                                       | Caller Phone:  | (718) 352             |                                   |                  | Caller Extension:                        | Not reported            |                                |
|                                       | Notifier Name:   | DICK RAN              | -                                 |                  | Notifier Agency:                         | ARMY RESERVES           |                                |
|                                       | Notifier Phone:<br>Spill Date:                           | (718) 352<br>09/21/99 | -5155                             |                  | Notifier Extension:<br>Reported to Dept: |                         |                                |
|                                       | Facility Address 2                                       |                       | ed                                |                  | Reported to Dept.                        | 03/21/03                |                                |
|                                       | Facility Type:   | ER                    |                                   |                  |  |                         |                                |
|                                       | Referred To :  | -                     | CNTY HEALTH                       | DEPT             | DEC Region :                             | 9                       |                                |
|                                       | Remediation Pha  |                       | 0<br>9907461                      |                  |  |                         |                                |
|                                       | Program Number<br>Spill Cause:                           | OTHER                 | 9907401                           |                  |  |                         |                                |
|                                       | Water Affected:  | Not report            | ed                                |                  | Spill Source:                            | INSTITUTIONAL, EDU      | CATIONAL, GOV., OTHER          |
|                                       | Contact Name:  | RAVI AJC              |                                   |                  | Facility Tele:                           | (718) 352-5155          |                                |
|                                       | Spill Notifier:  |                       | SIBLE PARTY                       |                  |  |                         |                                |
|                                       | Spiller:<br>Spiller Company                              | Not report            |                                   | RMY              |  |                         |                                |
|                                       | Spiller Address:   | FORT TO               |                                   |                  |  |                         |                                |
|                                       |  |                       | G, NY 11359                       |                  |  |                         |                                |
|                                       | Spiller County :   | 001                   |                                   |                  |  | Deserves                |                                |
|                                       | Spill Class:<br>Spill Closed Dt:                         | Willing Re            | ease with minima sponsible Party. |                  | fire or hazard. DEC on taken.            | Response.               |                                |
|                                       | Cleanup Ceased   |                       |                                   |                  |  |                         |                                |
|                                       | Last Inspection:   |                       |                                   |                  | Cleanup Meets Sto                        | I:True                  |                                |
|                                       | Recommended F  |                       | Penalty Not Re                    | commended        |  |                         |                                |
|                                       | UST Trust:<br>Regional Use:                              | False<br>Not report   | od                                |                  |  |                         |                                |
|                                       | Spill Record Last  |                       | 02/25/00                          |                  |  |                         |                                |
|                                       | Date Spill Entere  | •                     |                                   | 09/21/99         |  |                         |                                |
|                                       | Material   |                       | 000407                            |                  |  |                         |                                |
|                                       | Material ID :<br>Site ID :                               |                       | 300164<br>246072                  |                  |  |                         |                                |
|                                       | Operable Unit :  |                       | 01                                |                  |  |                         |                                |
|                                       | Operable Unit I  | D :                   | 1086052                           |                  |  |                         |                                |
|                                       | Material Code :  |                       | 0022                              |                  |  |                         |                                |
|                                       | Material Name :<br>Case No. :                            |                       | Waste Oil/Used                    | l Oil (Not Fuel) |  |                         |                                |
|                                       | Material FA :  |                       | Not reported<br>Petroleum         |                  |  |                         |                                |
|                                       | Quantity :   |                       | 0.00                              |                  |  |                         |                                |
|                                       | Units :  |                       | G                                 |                  |  |                         |                                |
|                                       | Recovered :  | had Call              |                                   | No               |  |                         |                                |
|                                       | Resource Affect<br>Resource Affect                       |                       |                                   | Yes<br>No        |  |                         |                                |
|                                       | Resource Affect  |                       | Air :                             | No               |  |                         |                                |
|                                       | Resource Affect  |                       |                                   | No               |  |                         |                                |
|                                       | Resource Affect  |                       |                                   | No               |  |                         |                                |
|                                       | Resource Affect  |                       | -                                 | No               |  |                         |                                |
|                                       | Resource Affect  | ieu - Sewer           |                                   | No               |  |                         |                                |

| Map ID<br>Direction                  |  | Γ   | IAP FINDINGS   |  |  |
|--------------------------------------|--|---|--|--|--|
| Distance<br>Distance (free Elevation | t.)<br>Site                                    |   |  | Database(s)  | EDR ID Number<br>EPA ID Number   |
|                                      | NIAGARA FALLS AF                               | RC/AMSA #76(G) (Continu   | ed)  |  | U003316292   |
|                                      | Resource Affeo<br>Resource Affeo               | Cted - Utility :<br>Cted - Impervious Surface :<br>Prior to Sept, 2004 data tra<br>"SAC-NCHD" 09/21/99: SA<br>CHECKED PBS COMPUT<br>SCHEDULED TO BE REM<br>ILL FOLLOW UP, FAXED<br>DAVE DRUST, HE IS RES<br>LINDA GRIMMER, EP&S &<br>TANKS BEING REMOVED<br>WITH AND PIPED FROM<br>AND THE SEPARATOR, BUT V<br>A SMALL AMOUNT OF GI<br>EACHED INTO THE TANK<br>THE SMALL AMOUNT OF GI<br>EACHED INTO THE TANK<br>THE SMALL AMOUNT OF<br>SEPARATOR CONTENTS<br>CONTAMINATED SOIL W<br>TANK REMOVAL SO NO S<br>BEEN TAKEN AND NO GI<br>WAS PUMPED OUT SO N<br>THE SITE DURING THE T<br>TION HAS BEEN PARTIAI<br>MARTIN, NCHD, HE INSP<br>FROM J.M. WILLER, SPIL<br>THEY HAD ABOUT SIX DI<br>FROM PUMPING, AND TE<br>ORIGINALLY. 02/03/00:<br>MARTIN, SMALL SPILL TH<br>WATER WAS PUMPED O<br>TER WAS FOUND, NO SI<br>SAMPLES RESULTS EITH<br>THIS WAS AN OIL/WATEH<br>AT WAS REMOVED, CON<br>CLOSED PER RNL. 02/1 | THE OIL/WATER SEPARATOR, '<br>O CONTAMINATED SOIL WAS (<br>VHILE REMOVING THE SEPARA<br>ROUNDWATER L<br>AND LEACHED BACK OUT PRI<br>GROUNDWATER INTO A 55 GA<br>THAT WERE PREVIOUSLY PUI<br>AS OBSERVED DURING THE<br>SOIL HAS BEEN STAGED FOR D<br>ROUNDWATER LEACHED BACK<br>IO GROUNDWATER SAMPLE W<br>'ELECON, EXCAVA<br>LLY BACKFILLED. 09/22/99: S.<br>ECTED SITE YESTERDAY AND<br>L WAS CAUSED WHEN TANK S<br>RUMS OF GROUNDWATER<br>EN DRUMS OF MATERIAL WERE<br>SAC RECEIVED NCHD INSPECT<br>HAT AFFECTED THE GROUNDW<br>UT AND 16 DRUMS OF WA<br>ONYX ENVIRONMENTAL SERV<br>OIL DISPOSAL OR RECEIPTS, T<br>HER. 02/15/00: SAC DISCUSSE | TIFYING HIM OF THE SP<br>ON WASTE OIL TANKS<br>I. 09/21/99: SAC TELECON<br>20/21/99: SAC THE EXCAVATIO<br>20/21/99: SAC THE EXCAVATIO<br>20/21/99: SAC TELECON DAVE<br>20/21/99: SAC TELECON D | ARE<br>CON<br>SAID THE<br>THE TANKS<br>PUMPED OUT<br>RACKED AND<br>EY PUMPED<br>ITH THE<br>S, NO<br>ES HAVE<br>N SINCE IT<br>IN WAS AT<br>RAND<br>IOVED,<br>ANK<br>AVE<br>FION, ALL<br>MINATED<br>MATORY<br>CE<br>BE |
|                                      | Remark:  |   | leaked out they are running test   |  |  |
|                                      | HIST SPILLS:                                   |   |  |  |  |
|                                      | Spill Number:<br>Investigator:<br>Caller Name: | 9907461<br>SAC-NCHD<br>Not reported   | Region of Spill:<br>SWIS:<br>Caller Agency:  | 9<br>29<br>Not reported  |  |

Investigator:SAC-NCHDCaller Name:Not reportedCaller Phone:Not reportedNotifier Phone:Not reportedNotifier Phone:Not reportedSpill Date:09/21/1999 11Spill Cause:OtherWater Affected:Not reportedFacility Contact:Not reportedSpiller Contact:RAVI AJODAHSpiller:DEPARTMENTSpiller Address:FORT TOTEN

SAC-NCHD Not reported Not reported Not reported 09/21/1999 11:00 Other Not reported Not reported Responsible Party RAVI AJODAH DEPARTMENT OF THE ARMY FORT TOTEN FLUSHING, NY 11359

| Region of Spill:    | 9                               |
|---------------------|---------------------------------|
| SWIS:               | 29                              |
| Caller Agency:      | Not reported                    |
| Caller Extension:   | Not reported                    |
| Notifier Agency:    | Not reported                    |
| Notifier Extension: | Not reported                    |
| Reported to Dept:   | 09/21/99 12:45                  |
| Resource Affected:  | On Land                         |
| Spill Source:       | Other Non Commercial/Industrial |
| Facility Tele:      | ( ) -                           |
| PBS Number:         | Not reported                    |
| Spiller Phone:      | (718) 352-5155                  |
|                     |                                 |

| Map ID<br>Direction                    |                   | MAP FINDINGS   |  |  |
|--|-------------------|--|--|--|
| Distance<br>Distance (ft.<br>Elevation | .)<br>Site        |  | Database(s)  | EDR ID Number<br>EPA ID Number   |
|  | NIAGARA FALLS AFI | RC/AMSA #76(G) (Continued)   |  | U003316292   |
|  | DEC Remarks :     | 09/21/99: SAC TELECON DAVE DRUST NOTIFYING HIM OF THE S<br>COMPUTER RECORDS TWO 550 GALLON WASTE OIL TANKS A<br>REMOVED PER AES, MR. DRUST WILL FOLLOW UP, FAXED COF<br>HIM. 09/21/99: SAC TELECON DAVE<br>DRUST, HE IS RESPONDING TO THE REPORT. 09/21/99: SAC T<br>GRIMMER, EP S CONTRACTOR DOING THE REMOVAL, MS. GR<br>BEING REMOVED ARE ASSOCIATED WITH AND PIPED FROM TH<br>SEPARATOR, WHEN THEY REMOVED THE TANKS AND<br>THE SEPARATOR NO CONTAMINATED SOIL WAS OBSERVED AN<br>SEPARATOR, BUT WHILE REMOVING THE SEPARATOR THE TAN<br>SMALL AMOUNT OF GROUNDWATER LEACHED INTO THE TANK<br>PRODUCING A SHEEN, THEY PUMPED THE<br>SMALL AMOUNT OF GROUNDWATER INTO A 55 GALLON DRUM<br>SEPARATOR CONTENTS THAT WERE PREVIOUSLY PUMPED IN<br>CONTAMINATED SOIL WAS OBSERVED DURING THE TANK REM<br>BEEN STAGED FOR DISPOSAL, SOIL SAMPLES HAVE BEEN<br>TAKEN AND NO GROUNDWATER LEACHED BACK INTO THE EXC | RE SCHEDULEI<br>PY OF THE REPO<br>ELECON LINDA<br>IMMER SAID TH<br>IE OIL/WATER<br>ND EP S PUMPE<br>NK WAS CRACK<br>AND LEACHED<br>ALONG WITH T<br>TO THE DRUMS<br>IOVAL SO NO S | D TO BE<br>ORT TO<br>HE TANKS<br>ED OUT THE<br>KED AND A<br>D BACK OUT<br>HE<br>S, NO<br>OIL HAS |

09/22/99: SAC TELECON DAVE MARTIN, NC

WERE PUMPED FROM THE TANK ORIGINALLY.

REQUIRED. SITE CAN BE CLOSED PER RN

Remark:

Material:

Units:

Material:

Class Type:

Last Date:

Spill Class:

Material Class Type:

Unknown Qty Spilled:

Spill Closed Dt: 02/22/00 Cleanup Ceased: / / Last Inspection: 09/21/99

**Recommended Penalty:** 

Spill Record Last Update:

Spiller Cleanup Dt/ /

Invstgn Complete:/ /

Is Updated:

Unknown Qty Recovered: True

Chem Abstract Service Number:

Num Times Material Entry In File:

Quantity Recovered:

Quantity Spilled:

SERVICES, SINCE NO CONTAMINATED SOIL WAS F

SEPARATOR TANK AND CONTAMINATED WATER.

Willing Responsible Party. Corrective action taken.

1

0

No

0

Gallons

WASTE OIL

Petroleum

02/25/00

False

during a tank pull some oil leaked out they are running test

Known release with minimal potential for fire or hazard. DEC Response.

WASTE OIL

09/27/1994

9509

Penalty Not Recommended

PUMPED OUT SO NO GROUNDWATER SAMPLE WAS TAKEN, DAVE MARTIN WAS AT THE

SITE DURING THE TELECON, EXCAVATION HAS BEEN PARTIALLY BACKFILLED.

HD, HE INSPECTED SITE YESTERDAY AND SPOKE WITH RICHARD RAND FROM J.M. WILLER, SPILL WAS CAUSED WHEN TANK SPLIT WHILE BEING REMOVED, THEY HAD ABOUT SIX DRUMS OF GROUNDWATER FROM PUMPING. AND TEN DRUMS OF MATERIAL

02/03/00: SAC RECEIVED NCHD INSPECTION REPORT FROM DAVE MARTIN, SMALL SPILL THAT AFFECTED THE GROUNDWATER IN THE EXCAVATION, ALL WATER WAS PUMPED OUT AND 16 DRUMS OF WATER WAS DISPOSED BY ONYX ENVIRONMENTAL

OUND, NO SOIL DISPOSAL OR RECEIPTS, THERE ARE NO CONFIRMATORY SAMPLES RESULTS EITHER. 02/15/00: SAC DISCUSSED SITE WITH RNL, SINCE THIS WAS AN OIL/WATER SEPARATOR THAT WAS REMOVED, CONFIRMATORY SAMPLING IS NOT

Cleanup Meets Std:True

Enforcement Date: / /

UST Involvement: False

L. 02/18/00: RECEIVED DISPOSAL RECEIPTS FOR THE CRUSHED FIBERGLASS

TC01714247.26r Page 12

| Map ID                    |  | MAP FINDINGS                                  |  |                    |               |
|---------------------------|--|---|--|--------------------|---------------|
| Direction                 |  | 4   |  |                    |               |
| Distance<br>Distance (ft. | )  |   |  |                    | EDR ID Number |
| Elevation                 | Site   |   |  | Database(s)        | EPA ID Number |
|                           |  |   |  |                    |               |
|                           | NIAGARA FALLS AFRC/AI  |   |  |                    | U003316292    |
|                           | Corrective Action Plan<br>Date Spill Entered In C<br>Date Region Sent Surr |   |  |                    |               |
|                           | PBS UST:   |   |  |                    |               |
|                           | PBS Number:  | 9-008877                                      | CBS Number:                            | Not reported       |               |
|                           | SPDES Number:  | Not reported                                  | SWIS ID:                               | 2911               |               |
|                           | Operator:  | MR HOGAN<br>(716) 297-7200                    |  |                    |               |
|                           | Emergency Contact:   | PAUL BERTRAND                                 |  |                    |               |
|                           | Emergency Contact.   | (718) 352-2092                                |  |                    |               |
|                           | Total Tanks:   | 1   |  |                    |               |
|                           | Owner:   | 77TH REGIONAL SUPPORT COMMAND                 | )                                      |                    |               |
|                           |  | AFRC-CNY-EN, BLDG 200                         |  |                    |               |
|                           |  | FT TOTTEN, NY 11359                           |  |                    |               |
|                           |  | (718) 352-5624                                |  |                    |               |
|                           | Owner Type:  | Corporate/Commercial                          |  |                    |               |
|                           | Owner Mark:  | First Owner                                   |  |                    |               |
|                           | Owner Subtype:<br>Mailing Address:   | Not reported<br>77TH REGIONAL SUPPORT COMMAND |  |                    |               |
|                           | Mailing Address.   | ATTN: ENVIRONMENTAL DIVISION                  |  |                    |               |
|                           |  | AFRC-CNY-EN                                   |  |                    |               |
|                           |  | BUILDING 200                                  |  |                    |               |
|                           |  | FT TOTTEN, NY 11359                           |  |                    |               |
|                           |  | (718) 352-2092                                |  |                    |               |
|                           | Tank Status:   | Closed - Removed                              |  |                    |               |
|                           | Capacity (gals):   |   |  |                    |               |
|                           | Tank Location:<br>Tank Id:   | UNDERGROUND<br>RA1                            | Install Date:                          | 06/01/1966         |               |
|                           | Tank Type:   | Steel/carbon steel                            | Product Stored:                        | UNLEADED GASO      | INF           |
|                           | Tank Internal:   | Not reported                                  | Pipe Internal:                         | Not reported       |               |
|                           | Pipe Location:   | 1   | Pipe Type:                             | STEEL/IRON         |               |
|                           | Tank External:   | Not reported                                  |  |                    |               |
|                           | Missing Data for Tank:   | Minor Data Missing                            |  |                    |               |
|                           | Pipe External:   | Not reported                                  |  |                    |               |
|                           | Second Containment:  | NONE  |  |                    |               |
|                           | Leak Detection:<br>Overfill Prot:  | NONE<br>Product Level Gauge                   | Dispenser:                             | Suction            |               |
|                           | Date Tested:   | Not reported                                  | Next Test Date:                        | Not reported       |               |
|                           | Date Closed:   | 07/01/1990                                    | Test Method:                           | Not reported       |               |
|                           | Deleted:   | False   | Updated:                               | True               |               |
|                           | Dead Letter:   | False   | Owner Screen:                          | Minor data missing |               |
|                           | FAMT:  | Fiscal amount for registration fee is correct | rt 🛛                                   |                    |               |
|                           | Total Capacity:  | 528   | Renewal Date:                          | Not reported       |               |
|                           | Tank Screen:   | No data missing                               | Federal ID:                            | Not reported       |               |
|                           | Renew Flag:<br>Certification Flag:   | Renwal has not been printed<br>False          | Facility Screen:<br>Certification Date | No data missing    |               |
|                           | Old PBS Number:  | Not reported                                  | Expiration Date:                       |                    |               |
|                           | Inspected Date:  | 07/09/1990                                    | Inspector:                             | JFO                |               |
|                           | Inspection Result:   | Not reported                                  | -                                      |                    |               |
|                           | Lat/long:  | Not reported                                  |  |                    |               |
|                           | Facility Type:   | OTHER   |  |                    |               |
|                           | Town or City:  | NIAGARA FALLS (C)                             |  |                    |               |
|                           | Town or City Code:   | 11  |  |                    |               |
|                           | County Code:<br>Region:  | 29<br>9                                       |  |                    |               |
|                           | Nogion.  | U C   |  |                    |               |
|                           | PBS Number:  | 9-008877                                      | CBS Number:                            | Not reported       |               |
|                           |  |   |  |                    |               |

| Map ID                                 |                                    | MAP FINDINGS  |                               |                |               |                                |
|--|------------------------------------|---|-------------------------------|----------------|---------------|--------------------------------|
| Direction                              |                                    | L   |                               |                |               |                                |
| Distance<br>Distance (ft.<br>Elevation | .)<br>Site                         |   |                               |                | Database(s)   | EDR ID Number<br>EPA ID Number |
|  |                                    |   |                               |                |               |                                |
|  | NIAGARA FALLS AFRC/A               | MSA #76(G) (Continued)  |                               |                |               | U003316292                     |
|  | SPDES Number:                      | Not reported  | SWIS ID:                      | 2911           |               |                                |
|  | Operator:                          | MR HOGAN<br>(716) 297-7200  |                               |                |               |                                |
|  | Emergency Contact:                 | (716) 297-7200<br>PAUL BERTRAND<br>(718) 352-2092   |                               |                |               |                                |
|  | Total Tanks:                       | 1   |                               |                |               |                                |
|  | Owner:                             | 77TH REGIONAL SUPPORT COMMANI<br>AFRC-CNY-EN, BLDG 200<br>FT TOTTEN, NY 11359<br>(718) 352-5624   | 0                             |                |               |                                |
|  | Owner Type:                        | Corporate/Commercial  |                               |                |               |                                |
|  | Owner Mark:                        | First Owner   |                               |                |               |                                |
|  | Owner Subtype:<br>Mailing Address: | Not reported<br>77TH REGIONAL SUPPORT COMMANE<br>ATTN: ENVIRONMENTAL DIVISION<br>AFRC-CNY-EN<br>BUILDING 200<br>FT TOTTEN, NY 11359<br>(714) 252 2002 | )                             |                |               |                                |
|  | Tank Status:                       | (718) 352-2092<br>Closed - Removed  |                               |                |               |                                |
|  | Capacity (gals):                   | 10000   |                               |                |               |                                |
|  | Tank Location:                     | UNDERGROUND, VAULTED, WITH AC   | CESS                          |                |               |                                |
|  | Tank Id:                           | RA2   | Install Date:                 | 06/01/         |               |                                |
|  | Tank Type:                         | Steel/carbon steel  | Product Stored:               |                | 1,2, OR 4 FUE | EL OIL                         |
|  | Tank Internal:                     | Not reported  | Pipe Internal:                |                |               |                                |
|  | Pipe Location:<br>Tank External:   | 1<br>Not reported   | Pipe Type:                    | SIEE           | L/IRON        |                                |
|  | Missing Data for Tank:             | Minor Data Missing  |                               |                |               |                                |
|  | Pipe External:                     | Not reported  |                               |                |               |                                |
|  | Second Containment:                | NONE/VAULT  |                               |                |               |                                |
|  | Leak Detection:                    | NONE<br>Developed Association   | D'                            | 0              |               |                                |
|  | Overfill Prot:<br>Date Tested:     | Product Level Gauge<br>Not reported   | Dispenser:<br>Next Test Date: | Suction Not ro | on<br>eported |                                |
|  | Date Closed:                       | 10/01/1991  | Test Method:                  |                | eported       |                                |
|  | Deleted:                           | False   | Updated:                      | True           |               |                                |
|  | Dead Letter:                       | False   | Owner Screen:                 | Minor          | data missing  |                                |
|  | FAMT:                              | Fiscal amount for registration fee is corre   |                               | Netwo          |               |                                |
|  | Total Capacity:<br>Tank Screen:    | 528<br>No data missing  | Renewal Date:<br>Federal ID:  |                | eported       |                                |
|  | Renew Flag:                        | Renwal has not been printed   | Facility Screen:              |                | ata missing   |                                |
|  | Certification Flag:                | False   | Certification Dat             |                |               |                                |
|  | Old PBS Number:                    | Not reported  | Expiration Date:              | 01/17/         | /2006         |                                |
|  | Inspected Date:                    | 07/09/1990  | Inspector:                    | JFO            |               |                                |
|  | Inspection Result:                 | Not reported  |                               |                |               |                                |
|  | Lat/long:<br>Facility Type:        | Not reported<br>OTHER   |                               |                |               |                                |
|  | Town or City:                      | NIAGARA FALLS (C)   |                               |                |               |                                |
|  | Town or City Code:                 | 11  |                               |                |               |                                |
|  | County Code:                       | 29  |                               |                |               |                                |
|  | Region:                            | 9   |                               |                |               |                                |
|  | PBS Number:                        | 9-008877  | CBS Number:                   |                | eported       |                                |
|  | SPDES Number:                      | Not reported  | SWIS ID:                      | 2911           |               |                                |
|  | Operator:                          | MR HOGAN<br>(716) 297 7200  |                               |                |               |                                |
|  | Emergency Contact:                 | (716) 297-7200<br>PAUL BERTRAND   |                               |                |               |                                |
|  | Emorgonoy Contact.                 | (718) 352-2092  |                               |                |               |                                |

Database(s)

EDR ID Number EPA ID Number

| IIAGARA FALLS AFRC/AM        | MSA #76(G) (Continued)                           |                                  | U003316292                             |
|------------------------------|--|----------------------------------|--|
| Total Tanks:                 | 1  |                                  |  |
| Owner:                       | 77TH REGIONAL SUPPORT COMMAND                    | )                                |  |
|                              | AFRC-CNY-EN, BLDG 200                            |                                  |  |
|                              | FT TOTTEN, NY 11359                              |                                  |  |
|                              | (718) 352-5624                                   |                                  |  |
| Owner Type:                  | Corporate/Commercial                             |                                  |  |
| Owner Mark:                  | First Owner                                      |                                  |  |
| Owner Subtype:               | Not reported                                     |                                  |  |
| Mailing Address:             | 77TH REGIONAL SUPPORT COMMAND                    | )                                |  |
|                              | ATTN: ENVIRONMENTAL DIVISION                     |                                  |  |
|                              | AFRC-CNY-EN                                      |                                  |  |
|                              | BUILDING 200                                     |                                  |  |
|                              | FT TOTTEN, NY 11359                              |                                  |  |
| -                            | (718) 352-2092                                   |                                  |  |
| Tank Status:                 | Closed - Removed                                 |                                  |  |
| Capacity (gals):             |  |                                  |  |
| Tank Location:               | UNDERGROUND, VAULTED, WITH ACC                   |                                  | 00/04/4005                             |
| Tank Id:                     | RA3<br>Steel/carbon steel                        | Install Date:<br>Product Stored: | 06/01/1965                             |
| Tank Type:<br>Tank Internal: |  |                                  | NOS 1,2, OR 4 FUEL OIL<br>Not reported |
| Pipe Location:               | Not reported<br>1                                | Pipe Internal:<br>Pipe Type:     | STEEL/IRON                             |
| Tank External:               | Not reported                                     | гіре туре.                       | STEELIKON                              |
| Missing Data for Tank:       | Minor Data Missing                               |                                  |  |
| Pipe External:               | Not reported                                     |                                  |  |
| Second Containment:          | NONE/VAULT                                       |                                  |  |
| Leak Detection:              | NONE   |                                  |  |
| Overfill Prot:               | Product Level Gauge                              | Dispenser:                       | Suction                                |
| Date Tested:                 | Not reported                                     | Next Test Date:                  | Not reported                           |
| Date Closed:                 | 10/01/1991                                       | Test Method:                     | Not reported                           |
| Deleted:                     | False  | Updated:                         | True                                   |
| Dead Letter:                 | False  | Owner Screen:                    | Minor data missing                     |
| FAMT:                        | Fiscal amount for registration fee is correct    | ct                               |  |
| Total Capacity:              | 528  | Renewal Date:                    | Not reported                           |
| Tank Screen:                 | No data missing                                  | Federal ID:                      | Not reported                           |
| Renew Flag:                  | Renwal has not been printed                      | Facility Screen:                 | No data missing                        |
| Certification Flag:          | False  | Certification Date               |  |
| Old PBS Number:              | Not reported                                     | Expiration Date:                 |  |
| Inspected Date:              | 07/09/1990                                       | Inspector:                       | JFO                                    |
| Inspection Result:           | Not reported                                     |                                  |  |
| Lat/long:<br>Facility Type:  | Not reported<br>OTHER                            |                                  |  |
| Town or City:                | NIAGARA FALLS (C)                                |                                  |  |
| Town or City Code:           | 11   |                                  |  |
| County Code:                 | 29   |                                  |  |
| Region:                      | 9  |                                  |  |
| 0                            | -  |                                  |  |
| PBS AST:                     | 0.000077   |                                  | Not you out only                       |
| PBS Number:                  | 9-008877   | CBS Number:                      | Not reported                           |
| SPDES Number:<br>Federal ID: | Not reported                                     | SWIS Code:<br>Previous PBS#:     | 2911<br>Not reported                   |
| Facility Status:             | Not reported<br>4 - Subpart 360-14 only (active) | FIEVIOUS FDO#.                   | Not reported                           |
| Facility Type:               | OTHER  |                                  |  |
| Owner Type:                  | Corporate/Commercial                             |                                  |  |
| Owner Sub Type:              | Not reported                                     |                                  |  |
| Owner:                       | 77TH REGIONAL SUPPORT COMMAND                    | )                                |  |
|                              | AFRC-CNY-EN, BLDG 200                            |                                  |  |
|                              | FT TOTTEN, NY 11359                              |                                  |  |
| Owner Phone:                 | (718) 352-5624                                   |                                  |  |
|                              |  |                                  |  |

### NI

Map ID Direction Distance Distance (ft.) Elevation Site

Database(s)

EDR ID Number EPA ID Number

#### U003316292

#### NIAGARA FALLS AFRC/AMSA #76(G) (Continued)

Facility Phone: (716) 297-7200 MR HOGAN Operator: Emergency Name: PAUL BERTRAND Emergency Phone: (718) 352-2092 Total Tanks: Total Capacity: 528 WO9 Tank ID: Capacity (Gal): 528 Missing Data for Tank : No data missing Tank Location: ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE USED OIL Product Stored: Tank Type: Steel/carbon steel 09/01/1999 Install Date: Tank Internal: NONE NONE/PAINTED/ASPHALT COATING Tank External: Tank Containment: NONE/DOUBLED-WALLED TANK NONE Pipe Type: Pipe Location: None Pipe Internal: NONE NONE/NONE Pipe External: Leak Detection: NONE/OTHER **Overfill Protection:** Product Level Gauge Dispenser Method: Suction Date Tested: Next Test Date: 11 11 Date Closed: 11 Test Method: Not reported Updated: True Deleted: False Date Inspected: 07/09/1990 Inspector: JFO Result of Inspection: Not reported 77TH REGIONAL SUPPORT COMMAND Mailing Name: Mailing Address: AFRC-CNY-EN **BUILDING 200** FT TOTTEN, NY 11359 Mailing Contact: ENVIRONMENTAL DIVISION Mailing Telephone: (718) 352-2092 First Owner Expiration Date: 01/17/2006 Owner Mark: Certification Flag: Certification Date: 01/19/2001 False Renew Date: Renew Flag: False 11 Lat/Long: Not reported Dead Letter: False Facility Screen: No data missing Owner Screen: Minor data missing Tank Screen: No data missing Town or City: NIAGARA FALLS (C) Town or City Code: 11 County Code: 29 Region: 9 Fiscal Amount for Registration Fee is Correct: True

#### A6 NIAGARA FALLS RESERVE CENTER Target 9400 PORTER RD

Property NIAGARA FALLS, NY 14304

Actual: 577 ft.

Site 6 of 10 in cluster A

RCRA-SQG 1000232912 NYD981875206

EDR ID Number Database(s) EPA ID Number

| Elevation                | Site  |                |                             |                  |                     | Database(s)                 | EPA ID Number        |
|--------------------------|---|----------------|-----------------------------|------------------|---------------------|-----------------------------|----------------------|
|                          | NIAGARA FALLS RE                                      | ESERVE CE      | NTER (Continu               | ued)             |                     |                             | 1000232912           |
|                          |   |                |                             |                  |                     |                             |                      |
|                          | RCRAInfo:<br>Owner:                                   | FT DRUM        |                             |                  |                     |                             |                      |
|                          | Owner.  | (212) 555-2    | 1212                        |                  |                     |                             |                      |
|                          | EPA ID:   | NYD98187       |                             |                  |                     |                             |                      |
|                          | Contact:  | Not reporte    | d                           |                  |                     |                             |                      |
|                          | Classification:<br>TSDF Activities                    |                | ntity Generator             |                  |                     |                             |                      |
|                          | Violation Status                                      | : No violation | ns found                    |                  |                     |                             |                      |
| A7<br>Target<br>Property | ARMY RESERVES<br>9400 PORTER ROAI<br>NIAGARA FALLS, N |                |                             |                  |                     | NY Spills<br>NY Hist Spills | S104498022<br>N/A    |
|                          | Site 7 of 10 in cluste                                | er A           |                             |                  |                     |                             |                      |
| Actual:                  | SPILLS:   |                |                             |                  |                     |                             |                      |
| 577 ft.                  | DER Facility ID                                       | : 202076       |                             |                  |                     |                             |                      |
|                          | Site ID :   | 246071         |                             |                  | CID :               | 29                          |                      |
|                          | Spill Number:   | 9107717        |                             |                  | Region of Spill:    | 9                           |                      |
|                          | Investigator:   | COOKE          |                             |                  | SWIS:               | 3211                        |                      |
|                          | Caller Name:  | CHARLE         | S MURDOUGH                  |                  | Caller Agency:      | POLLUTION ASSESSM           | /IENT                |
|                          | Caller Phone:   | (716) 675      | -7780                       |                  | Caller Extension:   | Not reported                |                      |
|                          | Notifier Name:  | Not repor      | ted                         |                  | Notifier Agency:    | Not reported                |                      |
|                          | Notifier Phone:                                       | Not repor      | ted                         |                  | Notifier Extension: | Not reported                |                      |
|                          | Spill Date:   | 10/18/91       |                             |                  | Reported to Dept:   | 10/18/91                    |                      |
|                          | Facility Address                                      | 2:Not repor    | ted                         |                  |                     |                             |                      |
|                          | Facility Type:  | ER             |                             |                  |                     |                             |                      |
|                          | Referred To :   | Not repor      | ted                         |                  | DEC Region :        | 9                           |                      |
|                          | Remediation Ph  | iase :         | 0                           |                  |                     |                             |                      |
|                          | Program Numbe   | ər:            | 9107717                     |                  |                     |                             |                      |
|                          | Spill Cause:  | OTHER          |                             |                  |                     |                             |                      |
|                          | Water Affected:                                       |                |                             |                  | Spill Source:       | INSTITUTIONAL, EDU          | CATIONAL, GOV., OTHE |
|                          | Contact Name:   | Not repor      | ted                         |                  | Facility Tele:      | Not reported                |                      |
|                          | Spill Notifier:                                       | OTHER          |                             |                  |                     |                             |                      |
|                          | Spiller:  | Not repor      |                             |                  |                     |                             |                      |
|                          | Spiller Company                                       | y : UNITED ៖   | STATES ARMY                 |                  |                     |                             |                      |
|                          | Spiller Address:                                      |                |                             |                  |                     |                             |                      |
|                          | Spiller County :                                      |                |                             |                  |                     |                             |                      |
|                          | Spill Class:  |                |                             |                  | fire or hazard. DEC | Response.                   |                      |
|                          |   | 0              | esponsible Party            | . Corrective act | tion taken.         |                             |                      |
|                          | Spill Closed Dt                                       |                |                             |                  |                     |                             |                      |
|                          | Cleanup Cease   |                |                             |                  |                     |                             |                      |
|                          | Last Inspection:                                      |                |                             |                  | Cleanup Meets Sto   | d:True                      |                      |
|                          | Recommended   |                | Penalty Not Re              | ecommended       |                     |                             |                      |
|                          | UST Trust:  | False          |                             |                  |                     |                             |                      |
|                          | Regional Use:   | Not repor      |                             |                  |                     |                             |                      |
|                          | Spill Record Las                                      |                | 04/09/93                    |                  |                     |                             |                      |
|                          | Date Spill Enter                                      | ed In Compu    | uter Data File:             | 10/25/91         |                     |                             |                      |
|                          | Material  |                |                             |                  |                     |                             |                      |
|                          | Material ID :   |                | 419909                      |                  |                     |                             |                      |
|                          | Site ID :   |                | 246071                      |                  |                     |                             |                      |
|                          | Operable Unit   |                | 01                          |                  |                     |                             |                      |
|                          | Operable Unit   |                | 961792                      |                  |                     |                             |                      |
|                          | Material Code   |                | 0001                        |                  |                     |                             |                      |
|                          |   |                |                             |                  |                     |                             |                      |
|                          | Material Name<br>Case No. :                           | ):             | #2 Fuel Oil<br>Not reported |                  |                     |                             |                      |

Database(s)

EDR ID Number EPA ID Number

| ARMY RESERVES (C  | ontinued)      |                  |             |                     | S104498                         | 022 |
|-------------------|----------------|------------------|-------------|---------------------|---------------------------------|-----|
| Material FA :     |                | Petroleum        |             |                     |                                 |     |
| Quantity :        |                | 200.00           |             |                     |                                 |     |
| Units :           |                | G                |             |                     |                                 |     |
| Recovered :       |                | 6                | No          |                     |                                 |     |
| Resource Affecte  | od Soil·       |                  | No          |                     |                                 |     |
| Resource Affecte  |                |                  | No          |                     |                                 |     |
| Resource Affecte  |                | Air ·            | No          |                     |                                 |     |
| Resource Affecte  |                |                  | Yes         |                     |                                 |     |
| Resource Affecte  |                |                  | No          |                     |                                 |     |
| Resource Affecte  |                |                  | No          |                     |                                 |     |
| Resource Affecte  |                | -                | No          |                     |                                 |     |
| Resource Affecte  |                |                  | No          |                     |                                 |     |
| Resource Affecte  |                |                  | No          |                     |                                 |     |
| Resource Affecte  |                | у.               | No          |                     |                                 |     |
| Resource Affecte  |                | ious Surface ·   | No          |                     |                                 |     |
| Oxygenate :       | cu - imperv    | ious ourrace .   | False       |                     |                                 |     |
| DEC Remarks :     | Prior to Se    | ot 2004 data tra |             | pill Lead DEC Field | was "JDC"                       |     |
| DEO Remaino .     |                |                  |             |                     | LAGE HELD IN CONCRETE           |     |
|                   |                |                  |             |                     | DING TO MR MURDOUGH. NCHD       |     |
|                   |                | AND WILL FOL     |             |                     |                                 |     |
|                   | -              | -                |             | F. NO FURTHER AG    | CTION REQUIRED.                 |     |
| Remark:           |                | PTURED WHILE     |             |                     |                                 |     |
| HIST SPILLS:      |                |                  |             |                     |                                 |     |
| Spill Number:     | 0407747        |                  |             | Region of Spill:    | 0                               |     |
| Investigator:     | 9107717<br>JDC |                  |             | SWIS:               | 9<br>29                         |     |
| Caller Name:      | Not report     | od               |             | Caller Agency:      | Not reported                    |     |
| Caller Phone:     | Not report     |                  |             | Caller Extension:   | Not reported                    |     |
| Notifier Name:    | Not report     |                  |             | Notifier Agency:    | Not reported                    |     |
| Notifier Phone:   | Not report     |                  |             | Notifier Extension: |                                 |     |
| Spill Date:       | 10/18/199      |                  |             | Reported to Dept:   |                                 |     |
| Spill Cause:      | Other          | 1 11.50          |             | Resource Affected   |                                 |     |
| Water Affected:   | Not report     | he               |             | Spill Source:       | Other Non Commercial/Industrial |     |
| Facility Contact: | Not report     |                  |             | Facility Tele:      | (716) 297-7909                  |     |
| Spill Notifier:   | Other          | 64               |             | PBS Number:         | Not reported                    |     |
| Spiller Contact:  | Not report     | ⊳d               |             | Spiller Phone:      | Not reported                    |     |
| Spiller:          | •              | TATES ARMY       |             | opilior r riorio.   | Notropontou                     |     |
| Spiller Address:  | Not report     |                  |             |                     |                                 |     |
| DEC Remarks :     | •              |                  | D WHILE BEI | ING REMOVED. SIL    | LAGE HELD IN CONCRETE           |     |
| DEO Romanio .     |                |                  |             |                     | DING TO MR MURDOUGH. NCHD       |     |
|                   | -              |                  |             |                     | USED AND DISPOSED OF.           |     |
|                   | -              | HER ACTION R     |             |                     |                                 |     |
| Remark:           | TANK RUI       | PTURED WHILE     | BEING REMO  | OVED                |                                 |     |
| Spill Class:      |                |                  |             | fire or hazard. DEC | Response.                       |     |
|                   |                | sponsible Party. |             |                     | •                               |     |
| Material:         | •              |                  |             |                     |                                 |     |
| Material Class    | Туре:          | 1                |             |                     |                                 |     |
| Quantity Spilled  | d:             | 200              |             |                     |                                 |     |
| Units:            |                | Gallons          |             |                     |                                 |     |
| Unknown Qty S     | Spilled:       | 200              |             |                     |                                 |     |
| Quantity Recov    | vered:         | 0                |             |                     |                                 |     |
| Unknown Qty F     | Recovered:     | False            |             |                     |                                 |     |
| Material:         |                | #2 FUEL OIL      |             |                     |                                 |     |
| Class Type:       |                | Petroleum        |             |                     |                                 |     |
| Chem Abstract     | Service Nu     | ımber:           | #2 FUEL OIL | -                   |                                 |     |
| Last Date:        |                |                  | 12/07/1994  |                     |                                 |     |
| Num Times Ma      |                | In File:         | 24464       |                     |                                 |     |
| Spill Closed Dt:  | 03/06/92       |                  |             |                     |                                 |     |
|                   |                |                  |             |                     |                                 |     |

| Map ID<br>Direction                   | MAP FINDIN  | GS  |          |                                 |                                |
|---------------------------------------|---|---|----------|---------------------------------|--------------------------------|
| Distance<br>Distance (ft<br>Elevation | )<br>Site   |   |          | Database(s)                     | EDR ID Number<br>EPA ID Number |
|                                       | ARMY RESERVES (Continued)   |   |          |                                 | S104498022                     |
|                                       | Cleanup Ceased: 03/06/92<br>Last Inspection: / /<br>Recommended Penalty: Penalty Not Recommended<br>Spiller Cleanup Dt/ /<br>Invstgn Complete:/ /<br>Spill Record Last Update: 04/09/93<br>Is Updated: False<br>Corrective Action Plan Submitted: / /<br>Date Spill Entered In Computer Data File: 10/25/91<br>Date Region Sent Summary to Central Office: / /  | Cleanup Meets Sto<br>Enforcement Date:<br>UST Involvement:  | . / /    |                                 |                                |
| A8<br>Target<br>Property              | NIAGARA FALLS AIRPORT<br>9400 PORTER ROAD NFAFB<br>NIAGARA FALLS, NY  |   |          | NY Spills<br>NY Hist Spills     | S102178092<br>N/A              |
| Actual:                               | Site 8 of 10 in cluster A   |   |          |                                 |                                |
| 577 ft.                               | SPILLS:<br>DER Facility ID: 283127<br>Site ID: 156906<br>Spill Number: 9975739<br>Investigator: SACALAND<br>Caller Name: PAUL DICKY<br>Caller Phone: (716) 851-7443<br>Notifier Name: Not reported<br>Notifier Phone: Not reported<br>Spill Date: 12/03/99<br>Facility Address 2:Not reported<br>Facility Type: ER<br>Referred To: NIAGARA CNTY HEALTH DEPT<br>Remediation Phase: 0<br>Descreme Number: 0075720           | CID :<br>Region of Spill:<br>SWIS:<br>Caller Agency:<br>Caller Extension:<br>Notifier Agency:<br>Notifier Extension:<br>Reported to Dept:<br>DEC Region : | •        | orted<br>orted<br>orted         |                                |
|                                       | Program Number : 9975739<br>Spill Cause: EQUIPMENT FAILURE<br>Water Affected: Not reported<br>Contact Name: MELVIN SHAKHAN<br>Spill Notifier: HEALTH DEPARTMENT<br>Spiller: MELVIN SHAKHAN<br>Spiller Company : TECH AVIATION<br>Spiller Address: 9900 PORTER ROAD<br>NIAGARA FALLS, NY 14304<br>Spiller County : 001<br>Spill Class: Known release with minimal potential for<br>Willing Responsible Party. Corrective a |   | (716) 29 | AJOR FACILITY<br>98-9307<br>:e. | > 1,100 GAL                    |
|                                       | Spill Closed Dt:03/28/00Cleanup Ceased:/Last Inspection:12/09/99Recommended Penalty:Penalty Not RecommendedUST Trust:FalseRegional Use:Not reportedSpill Record Last Update:03/31/00Date Spill Entered In Computer Data File:03/23/00Material156906Operable Unit :01Operable Unit ID :1091874Material Code :0011Material Name :Jet FuelCase No. :Not reported   | Cleanup Meets Sto   | 1:True   |                                 |                                |

Database(s)

EDR ID Number EPA ID Number

S102178092

Petroleum

Material FA :

|  | renoicum   |   |   |   |
|--|--|---|---|---|
| Quantity :   | 50.00  |   |   |   |
| Units :  | G  |   |   |   |
| Recovered :  |  | 50  |   |   |
| Resource Affect  | ed - Soil :  | Yes   |   |   |
| Resource Affect  | ed - Air :   | No  |   |   |
| Resource Affect  |  | No  |   |   |
|  | ed - Groundwater :   | No  |   |   |
|  |  |   |   |   |
|  | ed - Surface Water :   | No  |   |   |
|  | ed - Drinking Wtr :  | No  |   |   |
| Resource Affect  | ed - Sewer :   | No  |   |   |
| Resource Affect  | ed - Impervious Surface :  | No  |   |   |
| Resource Affect  | ed - Subway :  | No  |   |   |
| Resource Affect  | ed - Utility :   | No  |   |   |
|  | ed - Impervious Surface :  | No  |   |   |
| Oxygenate :  |  | False   |   |   |
|  | Driar to Sant 2004 data tra  |   |   | 1/00  |
| DEC Remarks :  | Prior to Sept, 2004 data tra   |   |   |   |
|  | "SAC-NCHD" 12/03/00: SA  |   |   |   |
|  | THE SPILL BY THURMAN   | JAMES, NFTA   |   | AN, HE IS FOLLOWING UP.   |
|  | 03/23/00: SAC TELECON I  | PAUL DICKY, H   | HE SAI  |   |
|  | D SPILL CLEANED UP AN  | D HE HAS DIS  | POSAL RECEIPTS  | AND WILL SEND IN  |
|  | INSPECTION REPORT FC   | R CLOSEOUT  | . 03/27/00: SAC I   | RECEIVED NCHD   |
|  | INSPECTION REPORT FR   |   | KY, INCLUDING D   | ISPOSAL RECEIPTS, SPILL   |
|  | CLEANED UP.  |   | ,   |   |
| Remark:  |  |   |   | OFF ON FUEL TRUCK FAILED  |
| Remark.  | TO SHUT OFF  |   |   | OIT ONT DEE TROORT AIEED  |
|  |  |   | · ·· ··   |   |
|  | This is the most recent NY   | SPILLS record   | for this site.  |   |
|  |  |   |   |   |
|  | Click this hyperlink while vie   | ewing on your c   | computer to access  |   |
|  | additional NY SPILLS detai   | I in the EDR Sit  | te Report.  |   |
|  |  |   | •   |   |
| HIST SPILLS:   |  |   |   |   |
| Spill Number:  | 9975739  |   | Region of Spill:  | 9   |
| Investigator:  |  |   | CM/IC.  | ~~  |
|  | SAC-NCHD   |   | SWIS:   | 29  |
| Caller Name:   | Not reported   |   |   | 29<br>Not reported  |
| 0  | Not reported   |   | Caller Agency:<br>Caller Extension:   | Not reported  |
| Caller Name:<br>Caller Phone:  | Not reported<br>Not reported   |   | Caller Agency:<br>Caller Extension:   | Not reported<br>Not reported  |
| Caller Name:<br>Caller Phone:<br>Notifier Name:  | Not reported<br>Not reported<br>Not reported   |   | Caller Agency:<br>Caller Extension:<br>Notifier Agency:   | Not reported<br>Not reported<br>Not reported  |
| Caller Name:<br>Caller Phone:<br>Notifier Name:<br>Notifier Phone:   | Not reported<br>Not reported<br>Not reported<br>Not reported   |   | Caller Agency:<br>Caller Extension:<br>Notifier Agency:<br>Notifier Extension:  | Not reported<br>Not reported<br>Not reported<br>Not reported  |
| Caller Name:<br>Caller Phone:<br>Notifier Name:<br>Notifier Phone:<br>Spill Date:  | Not reported<br>Not reported<br>Not reported<br>Not reported<br>12/02/1999 22:00   |   | Caller Agency:<br>Caller Extension:<br>Notifier Agency:<br>Notifier Extension:<br>Reported to Dept:   | Not reported<br>Not reported<br>Not reported<br>Not reported<br>12/03/99 13:10  |
| Caller Name:<br>Caller Phone:<br>Notifier Name:<br>Notifier Phone:<br>Spill Date:<br>Spill Cause:  | Not reported<br>Not reported<br>Not reported<br>12/02/1999 22:00<br>Equipment Failure  |   | Caller Agency:<br>Caller Extension:<br>Notifier Agency:<br>Notifier Extension:<br>Reported to Dept:<br>Resource Affected:   | Not reported<br>Not reported<br>Not reported<br>12/03/99 13:10<br>On Land   |
| Caller Name:<br>Caller Phone:<br>Notifier Name:<br>Notifier Phone:<br>Spill Date:<br>Spill Cause:<br>Water Affected:   | Not reported<br>Not reported<br>Not reported<br>12/02/1999 22:00<br>Equipment Failure<br>Not reported  |   | Caller Agency:<br>Caller Extension:<br>Notifier Agency:<br>Notifier Extension:<br>Reported to Dept:<br>Resource Affected:<br>Spill Source:  | Not reported<br>Not reported<br>Not reported<br>12/03/99 13:10<br>On Land<br>Non Major Facility > 1,100 gallons   |
| Caller Name:<br>Caller Phone:<br>Notifier Name:<br>Notifier Phone:<br>Spill Date:<br>Spill Cause:<br>Water Affected:<br>Facility Contact:  | Not reported<br>Not reported<br>Not reported<br>12/02/1999 22:00<br>Equipment Failure  |   | Caller Agency:<br>Caller Extension:<br>Notifier Agency:<br>Notifier Extension:<br>Reported to Dept:<br>Resource Affected:   | Not reported<br>Not reported<br>Not reported<br>12/03/99 13:10<br>On Land   |
| Caller Name:<br>Caller Phone:<br>Notifier Name:<br>Notifier Phone:<br>Spill Date:<br>Spill Cause:<br>Water Affected:   | Not reported<br>Not reported<br>Not reported<br>12/02/1999 22:00<br>Equipment Failure<br>Not reported  |   | Caller Agency:<br>Caller Extension:<br>Notifier Agency:<br>Notifier Extension:<br>Reported to Dept:<br>Resource Affected:<br>Spill Source:  | Not reported<br>Not reported<br>Not reported<br>12/03/99 13:10<br>On Land<br>Non Major Facility > 1,100 gallons   |
| Caller Name:<br>Caller Phone:<br>Notifier Name:<br>Notifier Phone:<br>Spill Date:<br>Spill Cause:<br>Water Affected:<br>Facility Contact:  | Not reported<br>Not reported<br>Not reported<br>12/02/1999 22:00<br>Equipment Failure<br>Not reported<br>MELVIN SHAKHAN  |   | Caller Agency:<br>Caller Extension:<br>Notifier Agency:<br>Notifier Extension:<br>Reported to Dept:<br>Resource Affected:<br>Spill Source:<br>Facility Tele:  | Not reported<br>Not reported<br>Not reported<br>12/03/99 13:10<br>On Land<br>Non Major Facility > 1,100 gallons<br>(716) 298-9307   |
| Caller Name:<br>Caller Phone:<br>Notifier Name:<br>Notifier Phone:<br>Spill Date:<br>Spill Cause:<br>Water Affected:<br>Facility Contact:<br>Spill Notifier:   | Not reported<br>Not reported<br>Not reported<br>12/02/1999 22:00<br>Equipment Failure<br>Not reported<br>MELVIN SHAKHAN<br>Health Department   |   | Caller Agency:<br>Caller Extension:<br>Notifier Agency:<br>Notifier Extension:<br>Reported to Dept:<br>Resource Affected:<br>Spill Source:<br>Facility Tele:<br>PBS Number:   | Not reported<br>Not reported<br>Not reported<br>12/03/99 13:10<br>On Land<br>Non Major Facility > 1,100 gallons<br>(716) 298-9307<br>Not reported   |
| Caller Name:<br>Caller Phone:<br>Notifier Name:<br>Notifier Phone:<br>Spill Date:<br>Spill Cause:<br>Water Affected:<br>Facility Contact:<br>Spill Notifier:<br>Spiller Contact:<br>Spiller:   | Not reported<br>Not reported<br>Not reported<br>12/02/1999 22:00<br>Equipment Failure<br>Not reported<br>MELVIN SHAKHAN<br>Health Department<br>MELVIN SHAKHAN<br>TECH AVIATION  |   | Caller Agency:<br>Caller Extension:<br>Notifier Agency:<br>Notifier Extension:<br>Reported to Dept:<br>Resource Affected:<br>Spill Source:<br>Facility Tele:<br>PBS Number:   | Not reported<br>Not reported<br>Not reported<br>12/03/99 13:10<br>On Land<br>Non Major Facility > 1,100 gallons<br>(716) 298-9307<br>Not reported   |
| Caller Name:<br>Caller Phone:<br>Notifier Name:<br>Notifier Phone:<br>Spill Date:<br>Spill Cause:<br>Water Affected:<br>Facility Contact:<br>Spill Notifier:<br>Spiller Contact:   | Not reported<br>Not reported<br>Not reported<br>12/02/1999 22:00<br>Equipment Failure<br>Not reported<br>MELVIN SHAKHAN<br>Health Department<br>MELVIN SHAKHAN<br>TECH AVIATION<br>9900 PORTER ROAD  |   | Caller Agency:<br>Caller Extension:<br>Notifier Agency:<br>Notifier Extension:<br>Reported to Dept:<br>Resource Affected:<br>Spill Source:<br>Facility Tele:<br>PBS Number:   | Not reported<br>Not reported<br>Not reported<br>12/03/99 13:10<br>On Land<br>Non Major Facility > 1,100 gallons<br>(716) 298-9307<br>Not reported   |
| Caller Name:<br>Caller Phone:<br>Notifier Name:<br>Notifier Phone:<br>Spill Date:<br>Spill Cause:<br>Water Affected:<br>Facility Contact:<br>Spill Notifier:<br>Spiller Contact:<br>Spiller Address:   | Not reported<br>Not reported<br>Not reported<br>12/02/1999 22:00<br>Equipment Failure<br>Not reported<br>MELVIN SHAKHAN<br>Health Department<br>MELVIN SHAKHAN<br>TECH AVIATION<br>9900 PORTER ROAD<br>NIAGARA FALLS, NY 1430  | 04  | Caller Agency:<br>Caller Extension:<br>Notifier Agency:<br>Notifier Extension:<br>Reported to Dept:<br>Resource Affected:<br>Spill Source:<br>Facility Tele:<br>PBS Number:<br>Spiller Phone:   | Not reported<br>Not reported<br>Not reported<br>12/03/99 13:10<br>On Land<br>Non Major Facility > 1,100 gallons<br>(716) 298-9307<br>Not reported<br>(716) 298-9307   |
| Caller Name:<br>Caller Phone:<br>Notifier Name:<br>Notifier Phone:<br>Spill Date:<br>Spill Cause:<br>Water Affected:<br>Facility Contact:<br>Spill Notifier:<br>Spiller Contact:<br>Spiller:   | Not reported<br>Not reported<br>Not reported<br>12/02/1999 22:00<br>Equipment Failure<br>Not reported<br>MELVIN SHAKHAN<br>Health Department<br>MELVIN SHAKHAN<br>TECH AVIATION<br>9900 PORTER ROAD<br>NIAGARA FALLS, NY 1430<br>12/03/00: SAC TELECON   | 04<br>PAUL DICKY, N   | Caller Agency:<br>Caller Extension:<br>Notifier Agency:<br>Notifier Extension:<br>Reported to Dept:<br>Resource Affected:<br>Spill Source:<br>Facility Tele:<br>PBS Number:<br>Spiller Phone:   | Not reported<br>Not reported<br>Not reported<br>12/03/99 13:10<br>On Land<br>Non Major Facility > 1,100 gallons<br>(716) 298-9307<br>Not reported<br>(716) 298-9307   |
| Caller Name:<br>Caller Phone:<br>Notifier Name:<br>Notifier Phone:<br>Spill Date:<br>Spill Cause:<br>Water Affected:<br>Facility Contact:<br>Spill Notifier:<br>Spiller Contact:<br>Spiller Address:   | Not reported<br>Not reported<br>Not reported<br>12/02/1999 22:00<br>Equipment Failure<br>Not reported<br>MELVIN SHAKHAN<br>Health Department<br>MELVIN SHAKHAN<br>TECH AVIATION<br>9900 PORTER ROAD<br>NIAGARA FALLS, NY 1430<br>12/03/00: SAC TELECON I<br>THURMAN JAMES, NFTA  | )4<br>PAUL DICKY, N<br>GROUND FOR   | Caller Agency:<br>Caller Extension:<br>Notifier Agency:<br>Notifier Extension:<br>Reported to Dept:<br>Resource Affected:<br>Spill Source:<br>Facility Tele:<br>PBS Number:<br>Spiller Phone:   | Not reported<br>Not reported<br>Not reported<br>Not reported<br>12/03/99 13:10<br>On Land<br>Non Major Facility > 1,100 gallons<br>(716) 298-9307<br>Not reported<br>(716) 298-9307   |
| Caller Name:<br>Caller Phone:<br>Notifier Name:<br>Notifier Phone:<br>Spill Date:<br>Spill Cause:<br>Water Affected:<br>Facility Contact:<br>Spill Notifier:<br>Spiller Contact:<br>Spiller Address:   | Not reported<br>Not reported<br>Not reported<br>12/02/1999 22:00<br>Equipment Failure<br>Not reported<br>MELVIN SHAKHAN<br>Health Department<br>MELVIN SHAKHAN<br>TECH AVIATION<br>9900 PORTER ROAD<br>NIAGARA FALLS, NY 1430<br>12/03/00: SAC TELECON I<br>THURMAN JAMES, NFTA<br>TELECON PAUL DICKY, H   | 04<br>PAUL DICKY, N<br>GROUND FOR<br>IE SAID SPILL  | Caller Agency:<br>Caller Extension:<br>Notifier Agency:<br>Notifier Extension:<br>Reported to Dept:<br>Resource Affected:<br>Spill Source:<br>Facility Tele:<br>PBS Number:<br>Spiller Phone:<br>NCHD, HE WAS NO<br>REMAN, HE IS FOL<br>CLEANED UP AND  | Not reported<br>Not reported<br>Not reported<br>Not reported<br>12/03/99 13:10<br>On Land<br>Non Major Facility > 1,100 gallons<br>(716) 298-9307<br>Not reported<br>(716) 298-9307   |
| Caller Name:<br>Caller Phone:<br>Notifier Name:<br>Notifier Phone:<br>Spill Date:<br>Spill Cause:<br>Water Affected:<br>Facility Contact:<br>Spill Notifier:<br>Spiller Contact:<br>Spiller Address:   | Not reported<br>Not reported<br>Not reported<br>12/02/1999 22:00<br>Equipment Failure<br>Not reported<br>MELVIN SHAKHAN<br>Health Department<br>MELVIN SHAKHAN<br>TECH AVIATION<br>9900 PORTER ROAD<br>NIAGARA FALLS, NY 1430<br>12/03/00: SAC TELECON I<br>THURMAN JAMES, NFTA<br>TELECON PAUL DICKY, H<br>RECEIPTS AND WILL SEN  | 04<br>PAUL DICKY, N<br>GROUND FOR<br>IE SAID SPILL<br>ID IN INSPECT   | Caller Agency:<br>Caller Extension:<br>Notifier Agency:<br>Notifier Extension:<br>Reported to Dept:<br>Resource Affected:<br>Spill Source:<br>Facility Tele:<br>PBS Number:<br>Spiller Phone:<br>NCHD, HE WAS NO<br>REMAN, HE IS FOL<br>CLEANED UP AND<br>FION RE   | Not reported<br>Not reported<br>Not reported<br>Not reported<br>12/03/99 13:10<br>On Land<br>Non Major Facility > 1,100 gallons<br>(716) 298-9307<br>Not reported<br>(716) 298-9307<br>DTIFIED OF THE SPILL BY<br>LOWING UP. 03/23/00: SAC<br>D HE HAS DISPOSAL   |
| Caller Name:<br>Caller Phone:<br>Notifier Name:<br>Notifier Phone:<br>Spill Date:<br>Spill Cause:<br>Water Affected:<br>Facility Contact:<br>Spill Notifier:<br>Spiller Contact:<br>Spiller Address:   | Not reported<br>Not reported<br>Not reported<br>12/02/1999 22:00<br>Equipment Failure<br>Not reported<br>MELVIN SHAKHAN<br>Health Department<br>MELVIN SHAKHAN<br>TECH AVIATION<br>9900 PORTER ROAD<br>NIAGARA FALLS, NY 1430<br>12/03/00: SAC TELECON I<br>THURMAN JAMES, NFTA<br>TELECON PAUL DICKY, H<br>RECEIPTS AND WILL SEN<br>PORT FOR CLOSEOUT.  | 04<br>PAUL DICKY, N<br>GROUND FOR<br>IE SAID SPILL<br>ND IN INSPECT<br>03/27/00: SAC  | Caller Agency:<br>Caller Extension:<br>Notifier Agency:<br>Notifier Extension:<br>Reported to Dept:<br>Resource Affected:<br>Spill Source:<br>Facility Tele:<br>PBS Number:<br>Spiller Phone:<br>NCHD, HE WAS NO<br>REMAN, HE IS FOL<br>CLEANED UP AND<br>FION RE<br>RECEIVED NCHE  | Not reported<br>Not reported<br>Not reported<br>Not reported<br>12/03/99 13:10<br>On Land<br>Non Major Facility > 1,100 gallons<br>(716) 298-9307<br>Not reported<br>(716) 298-9307<br>DTIFIED OF THE SPILL BY<br>LOWING UP. 03/23/00: SAC<br>D HE HAS DISPOSAL   |
| Caller Name:<br>Caller Phone:<br>Notifier Name:<br>Notifier Phone:<br>Spill Date:<br>Spill Cause:<br>Water Affected:<br>Facility Contact:<br>Spill Notifier:<br>Spiller Contact:<br>Spiller Address:   | Not reported<br>Not reported<br>Not reported<br>12/02/1999 22:00<br>Equipment Failure<br>Not reported<br>MELVIN SHAKHAN<br>Health Department<br>MELVIN SHAKHAN<br>TECH AVIATION<br>9900 PORTER ROAD<br>NIAGARA FALLS, NY 1430<br>12/03/00: SAC TELECON I<br>THURMAN JAMES, NFTA<br>TELECON PAUL DICKY, H<br>RECEIPTS AND WILL SEN  | 04<br>PAUL DICKY, N<br>GROUND FOR<br>IE SAID SPILL<br>ND IN INSPECT<br>03/27/00: SAC  | Caller Agency:<br>Caller Extension:<br>Notifier Agency:<br>Notifier Extension:<br>Reported to Dept:<br>Resource Affected:<br>Spill Source:<br>Facility Tele:<br>PBS Number:<br>Spiller Phone:<br>NCHD, HE WAS NO<br>REMAN, HE IS FOL<br>CLEANED UP AND<br>FION RE<br>RECEIVED NCHE  | Not reported<br>Not reported<br>Not reported<br>Not reported<br>12/03/99 13:10<br>On Land<br>Non Major Facility > 1,100 gallons<br>(716) 298-9307<br>Not reported<br>(716) 298-9307<br>DTIFIED OF THE SPILL BY<br>LOWING UP. 03/23/00: SAC<br>D HE HAS DISPOSAL   |
| Caller Name:<br>Caller Phone:<br>Notifier Name:<br>Notifier Phone:<br>Spill Date:<br>Spill Cause:<br>Water Affected:<br>Facility Contact:<br>Spill Notifier:<br>Spiller Contact:<br>Spiller Address:   | Not reported<br>Not reported<br>Not reported<br>12/02/1999 22:00<br>Equipment Failure<br>Not reported<br>MELVIN SHAKHAN<br>Health Department<br>MELVIN SHAKHAN<br>TECH AVIATION<br>9900 PORTER ROAD<br>NIAGARA FALLS, NY 1430<br>12/03/00: SAC TELECON I<br>THURMAN JAMES, NFTA<br>TELECON PAUL DICKY, H<br>RECEIPTS AND WILL SEN<br>PORT FOR CLOSEOUT.<br>PAUL DICKY, INCLUDING   | 04<br>PAUL DICKY, N<br>GROUND FOR<br>IE SAID SPILL<br>ND IN INSPECT<br>03/27/00: SAC<br>DISPOSAL RE                                       | Caller Agency:<br>Caller Extension:<br>Notifier Agency:<br>Notifier Extension:<br>Reported to Dept:<br>Resource Affected:<br>Spill Source:<br>Facility Tele:<br>PBS Number:<br>Spiller Phone:<br>NCHD, HE WAS NO<br>REMAN, HE IS FOL<br>CLEANED UP AND<br>FION RE<br>RECEIVED NCHE<br>ECEIPTS, SPILL CL   | Not reported<br>Not reported<br>Not reported<br>Not reported<br>12/03/99 13:10<br>On Land<br>Non Major Facility > 1,100 gallons<br>(716) 298-9307<br>Not reported<br>(716) 298-9307<br>DTIFIED OF THE SPILL BY<br>LOWING UP. 03/23/00: SAC<br>D HE HAS DISPOSAL   |
| Caller Name:<br>Caller Phone:<br>Notifier Name:<br>Notifier Phone:<br>Spill Date:<br>Spill Cause:<br>Water Affected:<br>Facility Contact:<br>Spill Notifier:<br>Spiller Contact:<br>Spiller Contact:<br>Spiller Address:<br>DEC Remarks :            | Not reported<br>Not reported<br>Not reported<br>12/02/1999 22:00<br>Equipment Failure<br>Not reported<br>MELVIN SHAKHAN<br>Health Department<br>MELVIN SHAKHAN<br>TECH AVIATION<br>9900 PORTER ROAD<br>NIAGARA FALLS, NY 1430<br>12/03/00: SAC TELECON I<br>THURMAN JAMES, NFTA<br>TELECON PAUL DICKY, F<br>RECEIPTS AND WILL SEN<br>PORT FOR CLOSEOUT.<br>PAUL DICKY, INCLUDING<br>WHILE FILLING FUEL TRU   | 04<br>PAUL DICKY, N<br>GROUND FOR<br>IE SAID SPILL<br>ND IN INSPECT<br>03/27/00: SAC<br>DISPOSAL RE                                       | Caller Agency:<br>Caller Extension:<br>Notifier Agency:<br>Notifier Extension:<br>Reported to Dept:<br>Resource Affected:<br>Spill Source:<br>Facility Tele:<br>PBS Number:<br>Spiller Phone:<br>NCHD, HE WAS NO<br>REMAN, HE IS FOL<br>CLEANED UP AND<br>FION RE<br>RECEIVED NCHE<br>ECEIPTS, SPILL CL   | Not reported<br>Not reported<br>Not reported<br>Not reported<br>12/03/99 13:10<br>On Land<br>Non Major Facility > 1,100 gallons<br>(716) 298-9307<br>Not reported<br>(716) 298-9307<br>DTIFIED OF THE SPILL BY<br>LOWING UP. 03/23/00: SAC<br>D HE HAS DISPOSAL   |
| Caller Name:<br>Caller Phone:<br>Notifier Name:<br>Notifier Phone:<br>Spill Date:<br>Spill Cause:<br>Water Affected:<br>Facility Contact:<br>Spill Notifier:<br>Spiller Contact:<br>Spiller Contact:<br>Spiller Address:<br>DEC Remarks :<br>Remark: | Not reported<br>Not reported<br>Not reported<br>12/02/1999 22:00<br>Equipment Failure<br>Not reported<br>MELVIN SHAKHAN<br>Health Department<br>MELVIN SHAKHAN<br>TECH AVIATION<br>9900 PORTER ROAD<br>NIAGARA FALLS, NY 1430<br>12/03/00: SAC TELECON I<br>THURMAN JAMES, NFTA<br>TELECON PAUL DICKY, F<br>RECEIPTS AND WILL SEN<br>PORT FOR CLOSEOUT.<br>PAUL DICKY, INCLUDING<br>WHILE FILLING FUEL TRU   | 04<br>PAUL DICKY, N<br>GROUND FOR<br>IE SAID SPILL<br>ND IN INSPECT<br>03/27/00: SAC<br>DISPOSAL RE<br>JCK FOR AIRC                       | Caller Agency:<br>Caller Extension:<br>Notifier Agency:<br>Notifier Extension:<br>Reported to Dept:<br>Resource Affected:<br>Spill Source:<br>Facility Tele:<br>PBS Number:<br>Spiller Phone:<br>NCHD, HE WAS NO<br>REMAN, HE IS FOL<br>CLEANED UP AND<br>CLEANED UP AND<br>FION RE<br>RECEIVED NCHE<br>ECEIPTS, SPILL CL<br>CRAFT AUTOSHUT                     | Not reported<br>Not reported<br>Not reported<br>Not reported<br>12/03/99 13:10<br>On Land<br>Non Major Facility > 1,100 gallons<br>(716) 298-9307<br>Not reported<br>(716) 298-9307<br>DTIFIED OF THE SPILL BY<br>LOWING UP. 03/23/00: SAC<br>D HE HAS DISPOSAL<br>D INSPECTION REPORT FROM<br>LEANED UP.<br>OFF ON FUEL TRUCK FAILED |
| Caller Name:<br>Caller Phone:<br>Notifier Name:<br>Notifier Phone:<br>Spill Date:<br>Spill Cause:<br>Water Affected:<br>Facility Contact:<br>Spill Notifier:<br>Spiller Contact:<br>Spiller Contact:<br>Spiller Address:<br>DEC Remarks :            | Not reported<br>Not reported<br>Not reported<br>12/02/1999 22:00<br>Equipment Failure<br>Not reported<br>MELVIN SHAKHAN<br>Health Department<br>MELVIN SHAKHAN<br>TECH AVIATION<br>9900 PORTER ROAD<br>NIAGARA FALLS, NY 1430<br>12/03/00: SAC TELECON I<br>THURMAN JAMES, NFTA<br>TELECON PAUL DICKY, F<br>RECEIPTS AND WILL SEN<br>PORT FOR CLOSEOUT.<br>PAUL DICKY, INCLUDING<br>WHILE FILLING FUEL TRU<br>TO SHUT OFF<br>Known release with minima | 04<br>PAUL DICKY, N<br>GROUND FOR<br>IE SAID SPILL<br>ND IN INSPECT<br>03/27/00: SAC<br>DISPOSAL RE<br>JCK FOR AIRC<br>I potential for fi | Caller Agency:<br>Caller Extension:<br>Notifier Agency:<br>Notifier Extension:<br>Reported to Dept:<br>Resource Affected:<br>Spill Source:<br>Facility Tele:<br>PBS Number:<br>Spiller Phone:<br>NCHD, HE WAS NO<br>REMAN, HE IS FOL<br>CLEANED UP AND<br>CLEANED UP AND<br>FION RE<br>RECEIVED NCHE<br>CEIPTS, SPILL CL<br>CRAFT AUTOSHUT<br>re or hazard. DEC | Not reported<br>Not reported<br>Not reported<br>Not reported<br>12/03/99 13:10<br>On Land<br>Non Major Facility > 1,100 gallons<br>(716) 298-9307<br>Not reported<br>(716) 298-9307<br>DTIFIED OF THE SPILL BY<br>LOWING UP. 03/23/00: SAC<br>D HE HAS DISPOSAL<br>D INSPECTION REPORT FROM<br>LEANED UP.<br>OFF ON FUEL TRUCK FAILED |
| Caller Name:<br>Caller Phone:<br>Notifier Name:<br>Notifier Phone:<br>Spill Date:<br>Spill Cause:<br>Water Affected:<br>Facility Contact:<br>Spiller Contact:<br>Spiller Contact:<br>Spiller Address:<br>DEC Remarks :<br>Remark:<br>Spill Class:    | Not reported<br>Not reported<br>Not reported<br>12/02/1999 22:00<br>Equipment Failure<br>Not reported<br>MELVIN SHAKHAN<br>Health Department<br>MELVIN SHAKHAN<br>TECH AVIATION<br>9900 PORTER ROAD<br>NIAGARA FALLS, NY 1430<br>12/03/00: SAC TELECON I<br>THURMAN JAMES, NFTA<br>TELECON PAUL DICKY, F<br>RECEIPTS AND WILL SEN<br>PORT FOR CLOSEOUT.<br>PAUL DICKY, INCLUDING<br>WHILE FILLING FUEL TRU   | 04<br>PAUL DICKY, N<br>GROUND FOR<br>IE SAID SPILL<br>ND IN INSPECT<br>03/27/00: SAC<br>DISPOSAL RE<br>JCK FOR AIRC<br>I potential for fi | Caller Agency:<br>Caller Extension:<br>Notifier Agency:<br>Notifier Extension:<br>Reported to Dept:<br>Resource Affected:<br>Spill Source:<br>Facility Tele:<br>PBS Number:<br>Spiller Phone:<br>NCHD, HE WAS NO<br>REMAN, HE IS FOL<br>CLEANED UP AND<br>CLEANED UP AND<br>FION RE<br>RECEIVED NCHE<br>CEIPTS, SPILL CL<br>CRAFT AUTOSHUT<br>re or hazard. DEC | Not reported<br>Not reported<br>Not reported<br>Not reported<br>12/03/99 13:10<br>On Land<br>Non Major Facility > 1,100 gallons<br>(716) 298-9307<br>Not reported<br>(716) 298-9307<br>DTIFIED OF THE SPILL BY<br>LOWING UP. 03/23/00: SAC<br>D HE HAS DISPOSAL<br>D INSPECTION REPORT FROM<br>LEANED UP.<br>OFF ON FUEL TRUCK FAILED |
| Caller Name:<br>Caller Phone:<br>Notifier Name:<br>Notifier Phone:<br>Spill Date:<br>Spill Cause:<br>Water Affected:<br>Facility Contact:<br>Spill Notifier:<br>Spiller Contact:<br>Spiller Contact:<br>Spiller Address:<br>DEC Remarks :<br>Remark: | Not reported<br>Not reported<br>Not reported<br>12/02/1999 22:00<br>Equipment Failure<br>Not reported<br>MELVIN SHAKHAN<br>Health Department<br>MELVIN SHAKHAN<br>TECH AVIATION<br>9900 PORTER ROAD<br>NIAGARA FALLS, NY 1430<br>12/03/00: SAC TELECON I<br>THURMAN JAMES, NFTA<br>TELECON PAUL DICKY, F<br>RECEIPTS AND WILL SEN<br>PORT FOR CLOSEOUT.<br>PAUL DICKY, INCLUDING<br>WHILE FILLING FUEL TRU<br>TO SHUT OFF<br>Known release with minima | 04<br>PAUL DICKY, N<br>GROUND FOR<br>IE SAID SPILL<br>ND IN INSPECT<br>03/27/00: SAC<br>DISPOSAL RE<br>JCK FOR AIRC<br>I potential for fi | Caller Agency:<br>Caller Extension:<br>Notifier Agency:<br>Notifier Extension:<br>Reported to Dept:<br>Resource Affected:<br>Spill Source:<br>Facility Tele:<br>PBS Number:<br>Spiller Phone:<br>NCHD, HE WAS NO<br>REMAN, HE IS FOL<br>CLEANED UP AND<br>CLEANED UP AND<br>FION RE<br>RECEIVED NCHE<br>CEIPTS, SPILL CL<br>CRAFT AUTOSHUT<br>re or hazard. DEC | Not reported<br>Not reported<br>Not reported<br>Not reported<br>12/03/99 13:10<br>On Land<br>Non Major Facility > 1,100 gallons<br>(716) 298-9307<br>Not reported<br>(716) 298-9307<br>DTIFIED OF THE SPILL BY<br>LOWING UP. 03/23/00: SAC<br>D HE HAS DISPOSAL<br>D INSPECTION REPORT FROM<br>LEANED UP.<br>OFF ON FUEL TRUCK FAILED |

| Map ID<br>Direction                   |  | MAP FINDINGS   |             |                                |
|---------------------------------------|--|--|-------------|--------------------------------|
| Distance<br>Distance (ft<br>Elevation | .)<br>Site   |  | Database(s) | EDR ID Number<br>EPA ID Number |
|                                       | NIAGARA FALLS AIRPORT (Co  | ntinued)   |             | S102178092                     |
|                                       |  | JET FUEL<br>Petroleum<br>Imber: JET FUEL<br>07/28/1994<br>In File: 1264<br>Penalty Not Recommended<br>Penalty Not Recommended<br>Cleanup Meets Std:True<br>Enforcement Date: / /<br>UST Involvement: False<br>03/31/00<br>False<br>itted: / /<br>ter Data File: 03/23/00 10:22<br>to Central Office: / /<br>most recent NY HISTORIC SPILLS record for this site.   |             |                                |
|                                       |  | yperlink while viewing on your computer to access<br>NY HIST SPILLS detail in the EDR Site Report.   |             |                                |
| A9<br>Target<br>Property              | FORT DRUM ARM SERVICES<br>9400 PORTER RD<br>NIAGARA FALLS, NY 14304  |  | NY MANIFEST | 1009226225<br>N/A              |
| Actual:<br>577 ft.                    | Site 9 of 10 in cluster A<br>NY MANIFEST:<br>Document ID:<br>Manifest Status:<br>Trans1 State ID:<br>Trans2 State ID:<br>Generator Ship Date:<br>Trans1 Recv Date:<br>Trans2 Recv Date:<br>TSD Site Recv Date:<br>Part A Recv Date:<br>Part B Recv Date:<br>Generator EPA ID:<br>Trans1 EPA ID:<br>Trans2 EPA ID:<br>TSDF ID:<br>Waste Code:<br>Quantity:<br>Units:<br>Number of Containers:<br>Container Type:<br>Handling Method:<br>Specific Gravity:<br>Year:<br>Facility Type:<br>EPA ID:<br>Facility Name: | NYC2407645<br>K<br>NYCL9286<br>Not reported<br>930708<br>930708<br>Not reported<br>930708<br>Not reported<br>930816<br>NYD010424273<br>ILD984908202<br>Not reported<br>NYD981556541<br>D001 - NON-LISTED IGNITABLE WASTES<br>00006<br>G - Gallons (liquids only)* (8.3 pounds)<br>001<br>DM - Metal drums, barrels<br>R Material recovery of more than 75 percent of the total m<br>100<br>93<br>Generator<br>NYD010424273<br>FORT DRUM ARM SERVICES | naterial.   |                                |

| Map ID<br>Direction                   |                                    | MAP FINDIN   | IGS                       |                |                             |                                |
|---------------------------------------|------------------------------------|--|---------------------------|----------------|-----------------------------|--------------------------------|
| Distance<br>Distance (ft<br>Elevation | .)<br>Site                         |  |                           |                | Database(s)                 | EDR ID Number<br>EPA ID Number |
|                                       | FORT DRUM ARM SE                   | RVICES (Continued)   |                           |                |                             | 1009226225                     |
|                                       | Facility Address:                  | 9400 PORTER RD   |                           |                |                             |                                |
|                                       | Facility City:                     | NIAGARA FALLS  |                           |                |                             |                                |
|                                       | Facility Zip 4:                    | Not reported   |                           |                |                             |                                |
|                                       | Country:<br>County:                | Not reported<br>NIAGARA  |                           |                |                             |                                |
|                                       | Mailing Name:                      | FORT DRUM ARM FORC   | ES CENTER                 |                |                             |                                |
|                                       | Mailing Contact:                   | EDMUND ZIEZINSKI   |                           |                |                             |                                |
|                                       | Mailing Address:                   | 9400 PORTER ROAD, BL   | _DG 18                    |                |                             |                                |
|                                       | Mailing City:                      | NIAGARA FALLS  |                           |                |                             |                                |
|                                       | Mailing State:<br>Mailing Zip:     | NY<br>14304  |                           |                |                             |                                |
|                                       | Mailing Zip4:                      | Not reported   |                           |                |                             |                                |
|                                       | Mailing Country:                   | Not reported   |                           |                |                             |                                |
|                                       | Mailing Phone:                     | 716-297-7200   |                           |                |                             |                                |
|                                       |                                    | Click this hyperlink while viewing on yo                       | our computer to access    | ;              |                             |                                |
|                                       |                                    | additional NY MANIFEST: detail in the                          | EDR Site Report.          |                |                             |                                |
|                                       |                                    |  |                           |                |                             |                                |
| A10<br>West                           | NIAGARA MOHAWK                     | POLE   |                           |                | NY Spills<br>NY Hist Spills | S103937442<br>N/A              |
| < 1/8                                 | NIAGARA FALLS, NY                  |  |                           |                |                             | N/A                            |
| 46 ft.                                |                                    |  |                           |                |                             |                                |
|                                       | Site 10 of 10 in cluste            | er A   |                           |                |                             |                                |
| Relative:<br>Lower                    | SPILLS:                            |  |                           |                |                             |                                |
| LOWEI                                 | DER Facility ID :                  | 174152   |                           |                |                             |                                |
| Actual:                               | Site ID :                          | 210076   | CID :                     | 29             |                             |                                |
| 576 ft.                               | Spill Number:                      | 9901922  | Region of Spill:          | 9              |                             |                                |
|                                       | Investigator:<br>Caller Name:      | BRENNAN<br>WILLIAM HESSON                                      | SWIS:<br>Caller Agency:   | 3211<br>NIAGAI | RA MOHAWK                   |                                |
|                                       | Caller Phone:                      | (716) 236-2710   | Caller Extension:         | Not rep        | -                           |                                |
|                                       | Notifier Name:                     | Not reported   | Notifier Agency:          | Not rep        |                             |                                |
|                                       | Notifier Phone:                    | Not reported   | Notifier Extension:       |                |                             |                                |
|                                       | Spill Date:                        | 05/19/99   | Reported to Dept:         | 05/19/9        | 9                           |                                |
|                                       | Facility Address 2                 | •  |                           |                |                             |                                |
|                                       | Facility Type:<br>Referred To :    | ER<br>Not reported   | DEC Region :              | 9              |                             |                                |
|                                       | Remediation Pha                    |  | DEC Rogion.               | 0              |                             |                                |
|                                       | Program Number                     | r: 9901922   |                           |                |                             |                                |
|                                       | Spill Cause:                       | OTHER  |                           |                |                             |                                |
|                                       | Water Affected:                    | Not reported   | Spill Source:             |                | ERCIAL/INDUST               | RIAL                           |
|                                       | Contact Name:<br>Spill Notifier:   | Not reported<br>RESPONSIBLE PARTY                              | Facility Tele:            | Not rep        | orted                       |                                |
|                                       | Spiller:                           | WILLIAM HESSON   |                           |                |                             |                                |
|                                       |                                    | : NIAGARA MOHAWK   |                           |                |                             |                                |
|                                       | Spiller Address:                   | 1720 NEW ROAD  |                           |                |                             |                                |
|                                       |                                    | NIAGARA FALLS, NY 14304  |                           |                |                             |                                |
|                                       | Spiller County :<br>Spill Class:   | 001<br>Possible release with minimal potential                 | l for fire or bazard or K | nown           |                             |                                |
|                                       | Opin Glass.                        | release with no damage. DEC Respon<br>Corrective action taken. |                           |                |                             |                                |
|                                       | Spill Closed Dt:                   |  |                           |                |                             |                                |
|                                       | Cleanup Ceased:                    |  |                           |                |                             |                                |
|                                       | Last Inspection:                   | //   | Cleanup Meets Sto         | d:True         |                             |                                |
|                                       | Recommended P                      |  | Ł                         |                |                             |                                |
|                                       | UST Trust:                         | False  |                           |                |                             |                                |
|                                       | D · · · ·                          | Mature and all   |                           |                |                             |                                |
|                                       | Regional Use:<br>Spill Record Last | Not reported<br>Update: 06/01/99                               |                           |                |                             |                                |

Database(s)

EDR ID Number EPA ID Number

| NIAGARA MOHAWK POI                        | _E (Continued)                                    |                   |                        |                      | S103937442 |
|---|---|-------------------|------------------------|----------------------|------------|
| Date Spill Entered In Computer Data File: |   | 05/19/99          |                        |                      |            |
| Material                                  |   |                   |                        |                      |            |
| Material ID :                             | 305449  |                   |                        |                      |            |
| Site ID :                                 | 210076  |                   |                        |                      |            |
| Operable Unit :                           | 01  |                   |                        |                      |            |
| Operable Unit ID :                        | 1080688   |                   |                        |                      |            |
| Material Code :                           | 0020A   |                   |                        |                      |            |
| Material Name :                           | TRANSFORME  | ROIL              |                        |                      |            |
| Case No. :                                | Not reported                                      |                   |                        |                      |            |
| Material FA :                             | Petroleum   |                   |                        |                      |            |
| Quantity :                                | 3.00  |                   |                        |                      |            |
| Units :                                   | G   |                   |                        |                      |            |
| Recovered :                               |   | 3                 |                        |                      |            |
| Resource Affected                         | - Soil :  | Yes               |                        |                      |            |
| Resource Affected                         | - Air :   | No                |                        |                      |            |
| Resource Affected                         | - Indoor Air :                                    | No                |                        |                      |            |
| Resource Affected                         | - Groundwater :                                   | No                |                        |                      |            |
| Resource Affected                         | <ul> <li>Surface Water :</li> </ul>               | No                |                        |                      |            |
| Resource Affected                         | - Drinking Wtr :                                  | No                |                        |                      |            |
| Resource Affected                         | - Sewer :   | No                |                        |                      |            |
| Resource Affected                         | - Impervious Surface :                            | No                |                        |                      |            |
| Resource Affected                         | - Subway :  | No                |                        |                      |            |
| Resource Affected                         | - Utility :                                       | No                |                        |                      |            |
| Resource Affected                         | - Impervious Surface :                            | No                |                        |                      |            |
| Oxygenate :                               |   | False             |                        |                      |            |
| DEC Remarks : Pr                          | ior to Sept, 2004 data tra                        | anslation this sp | oill Lead DEC Field v  | vas "KAB"            |            |
| 05  | /19/99: KAB RECEIVED                              | REPORT OF         | MINOR SPILLAGE         | OF 3 GALLONS OF      |            |
| TF  | RANSFORMER OIL. SPI                               | LLAGE WAS C       | LEANED UP BY NI        | AGARA MOHAWK CR      | EW. FAXED  |
| CC  | OPY OF REPORT TO NO                               | CHD. NO FUR       | THER ACTION            |                      |            |
| NE  | ECESSARY. CLOSE OU                                | Т.                |                        |                      |            |
| Remark: po                                | ssible that transformer w                         | /as struck by lig | ghtning causing trans  | sformer to           |            |
| lea                                       | ak. cleanup in progress n                         | IOW.              |                        |                      |            |
| HIST SPILLS:                              |   |                   |                        |                      |            |
|   | 01922   |                   | Region of Spill:       | 9                    |            |
| •   | \B  |                   | SWIS:                  | 29                   |            |
| 0   | ot reported                                       |                   | Caller Agency:         | Not reported         |            |
|   | ot reported                                       |                   | Caller Extension:      | Not reported         |            |
|   | ot reported                                       |                   | Notifier Agency:       | Not reported         |            |
|   | ot reported                                       |                   | Notifier Extension:    | •                    |            |
|   | /19/1999 10:30                                    |                   | Reported to Dept:      |                      |            |
|   | her   |                   | Resource Affected:     |                      |            |
|   | ot reported                                       |                   | Spill Source:          | Other Commercial/Ind | ustrial    |
|   | ILLIAM HESSON                                     |                   | Facility Tele:         | (716) 236-2710       | ustriai    |
| 5   | esponsible Party                                  |                   | PBS Number:            | Not reported         |            |
|   | ot reported                                       |                   | Spiller Phone:         | Not reported         |            |
| -   | AGARA MOHAWK                                      |                   | opilier i none.        | Not reported         |            |
|   | 20 NEW ROAD                                       |                   |                        |                      |            |
| •   | AGARA FALLS, NY 143                               | 04                |                        |                      |            |
|   | /19/99: KAB RECEIVED                              |                   |                        |                      |            |
|   | RANSFORMER OIL. SPI                               |                   |                        |                      | EW EAXED   |
|   | OPY OF REPORT TO NO                               |                   |                        |                      |            |
|   | ssible that transformer w                         |                   |                        |                      |            |
|   | ak. cleanup in progress n                         |                   | grinning causing trans |                      |            |
|   | ossible release with minir                        |                   | r fire or hazard or Kr | NOW/D                |            |
|   | 2221010 1010030 WILLI IIIIIII                     | nai potentiai 10  |                        |                      |            |
| -   | ease with no domage D                             | EC Response       | Willing Responsible    | Darty                |            |
| rel                                       | lease with no damage. D                           | EC Response.      | Willing Responsible    | Party.               |            |
| rel                                       | ease with no damage. D<br>prrective action taken. | EC Response.      | Willing Responsible    | Party.               |            |

| Map ID<br>Direction                                       |  | MAP FIN  | DINGS  |  |   |            |                              |
|---|--|--|--|--|---|------------|------------------------------|
| Distance<br>Distance (ft.<br>Elevation                    | )<br>Site  |  |  |  | Data  | abase(s)   | EDR ID Numbe<br>EPA ID Numbe |
|   | NIAGARA MOHAWK POLE  | E (Continued)  |  |  |   |            | S103937442                   |
|   | Material Class Type  | :: 1   |  |  |   |            |                              |
|   | Quantity Spilled:  | 3  |  |  |   |            |                              |
|   | Units:   | Gallons  |  |  |   |            |                              |
|   | Unknown Qty Spille   |  |  |  |   |            |                              |
|   | Quantity Recovered<br>Unknown Qty Reco   |  |  |  |   |            |                              |
|   | Material:  | TRANSFORMER OIL  |  |  |   |            |                              |
|   | Class Type:  | Petroleum  |  |  |   |            |                              |
|   | Chem Abstract Serv   | vice Number: TRAN  | SFORMER OIL  |  |   |            |                              |
|   | Last Date:   | 09/26/   | 1994   |  |   |            |                              |
|   | Num Times Materia<br>Spill Closed Dt: 05/1   |  |  |  |   |            |                              |
|   | Cleanup Ceased: / /  |  | Cleanur  | As ata OtaliT  |   |            |                              |
|   | Last Inspection: / /<br>Recommended Penal  |  |  | Meets Std:T  | rue   |            |                              |
|   | Spiller Cleanup Dt/ /  | y: Penalty Not Recommer  |  | ent Date: /  | 1   |            |                              |
|   | Invstgn Complete:/ /   |  |  | lvement: F   |   |            |                              |
|   | Spill Record Last Upda   | ate: 06/01/99  | 001 1110   |  | aloo  |            |                              |
|   | Is Updated:  | False  |  |  |   |            |                              |
|   | Corrective Action Plan   |  |  |  |   |            |                              |
|   | Date Spill Entered In C  | Computer Data File: 05/19/   | 99   |  |   |            |                              |
| ENE   | CECOS INTERNATIONAL<br>BOX 340 L P O   |  |  |  |   | UST<br>AST | U003079275<br>N/A            |
| ENE<br>< 1/8  | CECOS INTERNATIONAL  | INC  |  |  |   |            |                              |
| ENE<br>< 1/8<br>200 ft.<br>Relative:                      | CECOS INTERNATIONAL<br>BOX 340 L P O<br>NIAGARA FALLS, NY 143<br>PBS UST:  | INC<br>04  | 00   | 2 Number   | 0.000040  |            |                              |
| l1<br>ENE<br>< 1/8<br>200 ft.<br>Relative:<br>Higher      | CECOS INTERNATIONAL<br>BOX 340 L P O<br>NIAGARA FALLS, NY 143<br>PBS UST:<br>PBS Number:   | INC<br>04<br>9-040452  |  | S Number:  | 9-000212  |            |                              |
| ENE<br>< 1/8<br>200 ft.<br>Relative:<br>Higher            | CECOS INTERNATIONAL<br>BOX 340 L P O<br>NIAGARA FALLS, NY 143<br>PBS UST:<br>PBS Number:<br>SPDES Number:  | INC<br>04  | SW   | S Number:<br>IS ID:                                  | 9-000212<br>2911                                  |            |                              |
| ENE<br>< 1/8<br>200 ft.<br>Relative:                      | CECOS INTERNATIONAL<br>BOX 340 L P O<br>NIAGARA FALLS, NY 143<br>PBS UST:<br>PBS Number:   | INC<br>04<br>9-040452<br>Not reported  | SW   |  |   |            |                              |
| ENE<br>1/8<br>200 ft.<br>Relative:<br>ligher<br>Actual:   | CECOS INTERNATIONAL<br>BOX 340 L P O<br>NIAGARA FALLS, NY 143<br>PBS UST:<br>PBS Number:<br>SPDES Number:  | 9-040452<br>Not reported<br>CECOS INTERNATIONAL IN   | SW   |  |   |            |                              |
| ENE<br>: 1/8<br>:00 ft.<br>Relative:<br>ligher<br>Actual: | CECOS INTERNATIONAL<br>BOX 340 L P O<br>NIAGARA FALLS, NY 143<br>PBS UST:<br>PBS Number:<br>SPDES Number:<br>Operator:<br>Emergency Contact:   | 9-040452<br>Not reported<br>CECOS INTERNATIONAL IN<br>(716) 282-2676   | SW   |  |   |            |                              |
| ENE<br>< 1/8<br>200 ft.<br>Relative:<br>Higher<br>Actual: | CECOS INTERNATIONAL<br>BOX 340 L P O<br>NIAGARA FALLS, NY 143<br>PBS UST:<br>PBS Number:<br>SPDES Number:<br>Operator:<br>Emergency Contact:<br>Total Tanks:   | 9-040452<br>Not reported<br>CECOS INTERNATIONAL IN<br>(716) 282-2676<br>SAM RICOTTA<br>(716) 754-7753<br>0   | SW   |  |   |            |                              |
| ENE<br>< 1/8<br>200 ft.<br>Relative:<br>Higher<br>Actual: | CECOS INTERNATIONAL<br>BOX 340 L P O<br>NIAGARA FALLS, NY 143<br>PBS UST:<br>PBS Number:<br>SPDES Number:<br>Operator:<br>Emergency Contact:   | 9-040452<br>Not reported<br>CECOS INTERNATIONAL IN<br>(716) 282-2676<br>SAM RICOTTA<br>(716) 754-7753<br>0<br>CECOS INTERNATIONAL IN   | SW   |  |   |            |                              |
| ENE<br>< 1/8<br>200 ft.<br>Relative:<br>Higher<br>Actual: | CECOS INTERNATIONAL<br>BOX 340 L P O<br>NIAGARA FALLS, NY 143<br>PBS UST:<br>PBS Number:<br>SPDES Number:<br>Operator:<br>Emergency Contact:<br>Total Tanks:   | 9-040452<br>Not reported<br>CECOS INTERNATIONAL IN<br>(716) 282-2676<br>SAM RICOTTA<br>(716) 754-7753<br>0<br>CECOS INTERNATIONAL IN<br>BOX 340 L P O  | sw<br>IC   |  |   |            |                              |
| ENE<br>< 1/8<br>200 ft.<br>Relative:<br>Higher<br>Actual: | CECOS INTERNATIONAL<br>BOX 340 L P O<br>NIAGARA FALLS, NY 143<br>PBS UST:<br>PBS Number:<br>SPDES Number:<br>Operator:<br>Emergency Contact:<br>Total Tanks:   | 9-040452<br>Not reported<br>CECOS INTERNATIONAL IN<br>(716) 282-2676<br>SAM RICOTTA<br>(716) 754-7753<br>0<br>CECOS INTERNATIONAL IN<br>BOX 340 L P O<br>NIAGARA FALLS, NY 14304   | sw<br>IC   |  |   |            |                              |
| ENE<br>1/8<br>200 ft.<br>Relative:<br>ligher<br>Actual:   | CECOS INTERNATIONAL<br>BOX 340 L P O<br>NIAGARA FALLS, NY 143<br>PBS UST:<br>PBS Number:<br>SPDES Number:<br>Operator:<br>Emergency Contact:<br>Total Tanks:<br>Owner:   | 9-040452<br>Not reported<br>CECOS INTERNATIONAL IN<br>(716) 282-2676<br>SAM RICOTTA<br>(716) 754-7753<br>0<br>CECOS INTERNATIONAL IN<br>BOX 340 L P O  | sw<br>IC   |  |   |            |                              |
| ENE<br>1/8<br>200 ft.<br>Relative:<br>ligher<br>Actual:   | CECOS INTERNATIONAL<br>BOX 340 L P O<br>NIAGARA FALLS, NY 143<br>PBS UST:<br>PBS Number:<br>SPDES Number:<br>Operator:<br>Emergency Contact:<br>Total Tanks:   | 9-040452<br>Not reported<br>CECOS INTERNATIONAL IN<br>(716) 282-2676<br>SAM RICOTTA<br>(716) 754-7753<br>0<br>CECOS INTERNATIONAL IN<br>BOX 340 L P O<br>NIAGARA FALLS, NY 14304<br>(716) 282-2676   | sw<br>IC   |  |   |            |                              |
| ENE<br>< 1/8<br>200 ft.<br>Relative:<br>Higher<br>Actual: | CECOS INTERNATIONAL<br>BOX 340 L P O<br>NIAGARA FALLS, NY 143<br>PBS UST:<br>PBS Number:<br>Operator:<br>Emergency Contact:<br>Total Tanks:<br>Owner:<br>Owner Type:<br>Owner Mark:<br>Owner Subtype:  | 9-040452<br>Not reported<br>CECOS INTERNATIONAL IN<br>(716) 282-2676<br>SAM RICOTTA<br>(716) 754-7753<br>0<br>CECOS INTERNATIONAL IN<br>BOX 340 L P O<br>NIAGARA FALLS, NY 14304<br>(716) 282-2676<br>Not reported<br>First Owner<br>Not reported  | SW<br>IC   |  |   |            |                              |
| ENE<br>< 1/8<br>200 ft.<br>Relative:<br>Higher<br>Actual: | CECOS INTERNATIONAL<br>BOX 340 L P O<br>NIAGARA FALLS, NY 143<br>PBS UST:<br>PBS Number:<br>SPDES Number:<br>Operator:<br>Emergency Contact:<br>Total Tanks:<br>Owner:<br>Owner Type:<br>Owner Mark:   | 9-040452<br>Not reported<br>CECOS INTERNATIONAL IN<br>(716) 282-2676<br>SAM RICOTTA<br>(716) 754-7753<br>0<br>CECOS INTERNATIONAL IN<br>BOX 340 L P O<br>NIAGARA FALLS, NY 14304<br>(716) 282-2676<br>Not reported<br>First Owner<br>Not reported<br>CECOS INTERNATIONAL IN  | SW<br>IC   |  |   |            |                              |
| ENE<br>1/8<br>200 ft.<br>Relative:<br>ligher<br>Actual:   | CECOS INTERNATIONAL<br>BOX 340 L P O<br>NIAGARA FALLS, NY 143<br>PBS UST:<br>PBS Number:<br>Operator:<br>Emergency Contact:<br>Total Tanks:<br>Owner:<br>Owner Type:<br>Owner Mark:<br>Owner Subtype:  | 9-040452<br>Not reported<br>CECOS INTERNATIONAL IN<br>(716) 282-2676<br>SAM RICOTTA<br>(716) 754-7753<br>0<br>CECOS INTERNATIONAL IN<br>BOX 340 L P O<br>NIAGARA FALLS, NY 14304<br>(716) 282-2676<br>Not reported<br>First Owner<br>Not reported<br>CECOS INTERNATIONAL IN<br>BOX 340 L P O   | sw<br>ic<br>ic   |  |   |            |                              |
| ENE<br>1/8<br>200 ft.<br>Relative:<br>ligher<br>Actual:   | CECOS INTERNATIONAL<br>BOX 340 L P O<br>NIAGARA FALLS, NY 143<br>PBS UST:<br>PBS Number:<br>Operator:<br>Emergency Contact:<br>Total Tanks:<br>Owner:<br>Owner Type:<br>Owner Mark:<br>Owner Subtype:  | 9-040452<br>Not reported<br>CECOS INTERNATIONAL IN<br>(716) 282-2676<br>SAM RICOTTA<br>(716) 754-7753<br>0<br>CECOS INTERNATIONAL IN<br>BOX 340 L P O<br>NIAGARA FALLS, NY 14304<br>(716) 282-2676<br>Not reported<br>First Owner<br>Not reported<br>CECOS INTERNATIONAL IN<br>BOX 340 L P O<br>NIAGARA FALLS, NY 14304  | sw<br>ic<br>ic   |  |   |            |                              |
| ENE<br>: 1/8<br>:00 ft.<br>Relative:<br>ligher<br>Actual: | CECOS INTERNATIONAL<br>BOX 340 L P O<br>NIAGARA FALLS, NY 143<br>PBS UST:<br>PBS Number:<br>SPDES Number:<br>Operator:<br>Emergency Contact:<br>Total Tanks:<br>Owner:<br>Owner Type:<br>Owner Type:<br>Owner Mark:<br>Owner Subtype:<br>Mailing Address:  | 9-040452<br>Not reported<br>CECOS INTERNATIONAL IN<br>(716) 282-2676<br>SAM RICOTTA<br>(716) 754-7753<br>0<br>CECOS INTERNATIONAL IN<br>BOX 340 L P O<br>NIAGARA FALLS, NY 14304<br>(716) 282-2676<br>Not reported<br>First Owner<br>Not reported<br>CECOS INTERNATIONAL IN<br>BOX 340 L P O<br>NIAGARA FALLS, NY 14304<br>(716) 282-2676  | sw<br>IC<br>IC   | IS ID:   | 2911  |            |                              |
| ENE<br>1/8<br>200 ft.<br>Relative:<br>ligher<br>Actual:   | CECOS INTERNATIONAL<br>BOX 340 L P O<br>NIAGARA FALLS, NY 143<br>PBS UST:<br>PBS Number:<br>Operator:<br>Emergency Contact:<br>Total Tanks:<br>Owner:<br>Owner Type:<br>Owner Mark:<br>Owner Subtype:  | 9-040452<br>Not reported<br>CECOS INTERNATIONAL IN<br>(716) 282-2676<br>SAM RICOTTA<br>(716) 754-7753<br>0<br>CECOS INTERNATIONAL IN<br>BOX 340 L P O<br>NIAGARA FALLS, NY 14304<br>(716) 282-2676<br>Not reported<br>First Owner<br>Not reported<br>CECOS INTERNATIONAL IN<br>BOX 340 L P O<br>NIAGARA FALLS, NY 14304  | sw<br>IC<br>IC   | IS ID:   | 2911  |            |                              |
| ENE<br>< 1/8<br>200 ft.<br>Relative:<br>Higher<br>Actual: | CECOS INTERNATIONAL<br>BOX 340 L P O<br>NIAGARA FALLS, NY 143<br>PBS UST:<br>PBS Number:<br>SPDES Number:<br>Operator:<br>Emergency Contact:<br>Total Tanks:<br>Owner:<br>Owner Type:<br>Owner Type:<br>Owner Mark:<br>Owner Subtype:<br>Mailing Address:<br>Tank Status:  | 9-040452<br>Not reported<br>CECOS INTERNATIONAL IN<br>(716) 282-2676<br>SAM RICOTTA<br>(716) 754-7753<br>0<br>CECOS INTERNATIONAL IN<br>BOX 340 L P O<br>NIAGARA FALLS, NY 14304<br>(716) 282-2676<br>Not reported<br>First Owner<br>Not reported<br>CECOS INTERNATIONAL IN<br>BOX 340 L P O<br>NIAGARA FALLS, NY 14304<br>(716) 282-2676<br>Closed Prior to 04/91 (Either   | sw<br>IC<br>IC   | IS ID:   | 2911  |            |                              |
| ENE<br>1/8<br>200 ft.<br>Relative:<br>ligher<br>Actual:   | CECOS INTERNATIONAL<br>BOX 340 L P O<br>NIAGARA FALLS, NY 143<br>PBS UST:<br>PBS Number:<br>SPDES Number:<br>Operator:<br>Emergency Contact:<br>Total Tanks:<br>Owner:<br>Owner Type:<br>Owner Mark:<br>Owner Subtype:<br>Mailing Address:<br>Tank Status:<br>Capacity (gals):<br>Tank Location:<br>Tank Id:   | 9-040452<br>Not reported<br>CECOS INTERNATIONAL IN<br>(716) 282-2676<br>SAM RICOTTA<br>(716) 754-7753<br>0<br>CECOS INTERNATIONAL IN<br>BOX 340 L P O<br>NIAGARA FALLS, NY 14304<br>(716) 282-2676<br>Not reported<br>First Owner<br>Not reported<br>CECOS INTERNATIONAL IN<br>BOX 340 L P O<br>NIAGARA FALLS, NY 14304<br>(716) 282-2676<br>Closed Prior to 04/91 (Either<br>6000<br>UNDERGROUND<br>CS1   | SW<br>IC<br>IC<br>Closed In-Place o<br>Inst                | IS ID:<br>or Removed<br>all Date:                    | 2911<br>)<br>Not report                           | AST        |                              |
| ENE<br>1/8<br>200 ft.<br>Relative:<br>ligher<br>Actual:   | CECOS INTERNATIONAL<br>BOX 340 L P O<br>NIAGARA FALLS, NY 143<br>PBS UST:<br>PBS Number:<br>SPDES Number:<br>Operator:<br>Emergency Contact:<br>Total Tanks:<br>Owner:<br>Owner Type:<br>Owner Mark:<br>Owner Subtype:<br>Mailing Address:<br>Tank Status:<br>Capacity (gals):<br>Tank Location:<br>Tank Id:<br>Tank Type:   | 9-040452<br>Not reported<br>CECOS INTERNATIONAL IN<br>(716) 282-2676<br>SAM RICOTTA<br>(716) 754-7753<br>0<br>CECOS INTERNATIONAL IN<br>BOX 340 L P O<br>NIAGARA FALLS, NY 14304<br>(716) 282-2676<br>Not reported<br>First Owner<br>Not reported<br>CECOS INTERNATIONAL IN<br>BOX 340 L P O<br>NIAGARA FALLS, NY 14304<br>(716) 282-2676<br>Closed Prior to 04/91 (Either<br>6000<br>UNDERGROUND<br>CS1<br>Steel/carbon steel   | SW<br>IC<br>IC<br>Closed In-Place o<br>Inst<br>Prod        | or Removed<br>all Date:<br>duct Stored:              | 2911<br>)<br>Not reporte<br>DIESEL                | AST        |                              |
| ENE<br>< 1/8<br>200 ft.<br>Relative:<br>Higher<br>Actual: | CECOS INTERNATIONAL<br>BOX 340 L P O<br>NIAGARA FALLS, NY 143<br>PBS UST:<br>PBS Number:<br>SPDES Number:<br>Operator:<br>Emergency Contact:<br>Total Tanks:<br>Owner Type:<br>Owner Type:<br>Owner Mark:<br>Owner Subtype:<br>Mailing Address:<br>Tank Status:<br>Capacity (gals):<br>Tank Location:<br>Tank Id:<br>Tank Type:<br>Tank Internal:  | 9-040452<br>Not reported<br>CECOS INTERNATIONAL IN<br>(716) 282-2676<br>SAM RICOTTA<br>(716) 754-7753<br>0<br>CECOS INTERNATIONAL IN<br>BOX 340 L P O<br>NIAGARA FALLS, NY 14304<br>(716) 282-2676<br>Not reported<br>First Owner<br>Not reported<br>CECOS INTERNATIONAL IN<br>BOX 340 L P O<br>NIAGARA FALLS, NY 14304<br>(716) 282-2676<br>Closed Prior to 04/91 (Either<br>6000<br>UNDERGROUND<br>CS1<br>Steel/carbon steel<br>Not reported   | SW<br>IC<br>IC<br>Closed In-Place o<br>Inst<br>Pro<br>Pipe | or Removed<br>all Date:<br>duct Stored:<br>htternal: | 2911<br>)<br>Not reporte<br>DIESEL<br>Not reporte | AST        | N/A                          |
| ENE<br>< 1/8<br>200 ft.<br>Relative:<br>Higher<br>Actual: | CECOS INTERNATIONAL<br>BOX 340 L P O<br>NIAGARA FALLS, NY 143<br>PBS UST:<br>PBS Number:<br>SPDES Number:<br>Operator:<br>Emergency Contact:<br>Total Tanks:<br>Owner Type:<br>Owner Type:<br>Owner Mark:<br>Owner Subtype:<br>Mailing Address:<br>Tank Status:<br>Capacity (gals):<br>Tank Location:<br>Tank Id:<br>Tank Type:<br>Tank Internal:<br>Pipe Location:                              | 9-040452<br>Not reported<br>CECOS INTERNATIONAL IN<br>(716) 282-2676<br>SAM RICOTTA<br>(716) 754-7753<br>0<br>CECOS INTERNATIONAL IN<br>BOX 340 L P O<br>NIAGARA FALLS, NY 14304<br>(716) 282-2676<br>Not reported<br>First Owner<br>Not reported<br>CECOS INTERNATIONAL IN<br>BOX 340 L P O<br>NIAGARA FALLS, NY 14304<br>(716) 282-2676<br>Closed Prior to 04/91 (Either<br>6000<br>UNDERGROUND<br>CS1<br>Steel/carbon steel<br>Not reported<br>2  | SW<br>IC<br>IC<br>Closed In-Place o<br>Inst<br>Pro<br>Pipe | or Removed<br>all Date:<br>duct Stored:              | 2911<br>)<br>Not reporte<br>DIESEL                | AST        | N/A                          |
| ENE<br>1/8<br>200 ft.<br>Relative:<br>ligher<br>Actual:   | CECOS INTERNATIONAL<br>BOX 340 L P O<br>NIAGARA FALLS, NY 143<br>PBS UST:<br>PBS Number:<br>SPDES Number:<br>Operator:<br>Emergency Contact:<br>Total Tanks:<br>Owner Type:<br>Owner Type:<br>Owner Mark:<br>Owner Subtype:<br>Mailing Address:<br>Tank Status:<br>Capacity (gals):<br>Tank Location:<br>Tank Id:<br>Tank Type:<br>Tank Internal:<br>Pipe Location:<br>Tank External:            | 9-040452<br>Not reported<br>CECOS INTERNATIONAL IN<br>(716) 282-2676<br>SAM RICOTTA<br>(716) 754-7753<br>0<br>CECOS INTERNATIONAL IN<br>BOX 340 L P O<br>NIAGARA FALLS, NY 14304<br>(716) 282-2676<br>Not reported<br>First Owner<br>Not reported<br>CECOS INTERNATIONAL IN<br>BOX 340 L P O<br>NIAGARA FALLS, NY 14304<br>(716) 282-2676<br>Closed Prior to 04/91 (Either<br>6000<br>UNDERGROUND<br>CS1<br>Steel/carbon steel<br>Not reported<br>2<br>Not reported  | SW<br>IC<br>IC<br>Closed In-Place o<br>Inst<br>Pro<br>Pipe | or Removed<br>all Date:<br>duct Stored:<br>htternal: | 2911<br>)<br>Not reporte<br>DIESEL<br>Not reporte | AST        | N/A                          |
| ENE<br>1/8<br>200 ft.<br>Relative:<br>ligher<br>Actual:   | CECOS INTERNATIONAL<br>BOX 340 L P O<br>NIAGARA FALLS, NY 143<br>PBS UST:<br>PBS Number:<br>SPDES Number:<br>Operator:<br>Emergency Contact:<br>Total Tanks:<br>Owner Type:<br>Owner Mark:<br>Owner Subtype:<br>Mailing Address:<br>Tank Status:<br>Capacity (gals):<br>Tank Location:<br>Tank Id:<br>Tank Type:<br>Tank Internal:<br>Pipe Location:<br>Tank External:<br>Missing Data for Tank: | INC<br>04<br>9-040452<br>Not reported<br>CECOS INTERNATIONAL IN<br>(716) 282-2676<br>SAM RICOTTA<br>(716) 754-7753<br>0<br>CECOS INTERNATIONAL IN<br>BOX 340 L P O<br>NIAGARA FALLS, NY 14304<br>(716) 282-2676<br>Not reported<br>First Owner<br>Not reported<br>CECOS INTERNATIONAL IN<br>BOX 340 L P O<br>NIAGARA FALLS, NY 14304<br>(716) 282-2676<br>Closed Prior to 04/91 (Either<br>6000<br>UNDERGROUND<br>CS1<br>Steel/carbon steel<br>Not reported<br>2<br>Not reported<br>Not reported<br>Not reported | SW<br>IC<br>IC<br>Closed In-Place o<br>Inst<br>Pro<br>Pipe | or Removed<br>all Date:<br>duct Stored:<br>htternal: | 2911<br>)<br>Not reporte<br>DIESEL<br>Not reporte | AST        | N/A                          |
| ENE<br>1/8<br>200 ft.<br>Relative:<br>ligher<br>Actual:   | CECOS INTERNATIONAL<br>BOX 340 L P O<br>NIAGARA FALLS, NY 143<br>PBS UST:<br>PBS Number:<br>SPDES Number:<br>Operator:<br>Emergency Contact:<br>Total Tanks:<br>Owner Type:<br>Owner Type:<br>Owner Mark:<br>Owner Subtype:<br>Mailing Address:<br>Tank Status:<br>Capacity (gals):<br>Tank Location:<br>Tank Id:<br>Tank Type:<br>Tank Internal:<br>Pipe Location:<br>Tank External:            | 9-040452<br>Not reported<br>CECOS INTERNATIONAL IN<br>(716) 282-2676<br>SAM RICOTTA<br>(716) 754-7753<br>0<br>CECOS INTERNATIONAL IN<br>BOX 340 L P O<br>NIAGARA FALLS, NY 14304<br>(716) 282-2676<br>Not reported<br>First Owner<br>Not reported<br>CECOS INTERNATIONAL IN<br>BOX 340 L P O<br>NIAGARA FALLS, NY 14304<br>(716) 282-2676<br>Closed Prior to 04/91 (Either<br>6000<br>UNDERGROUND<br>CS1<br>Steel/carbon steel<br>Not reported<br>2<br>Not reported  | SW<br>IC<br>IC<br>Closed In-Place o<br>Inst<br>Pro<br>Pipe | or Removed<br>all Date:<br>duct Stored:<br>htternal: | 2911<br>)<br>Not reporte<br>DIESEL<br>Not reporte | AST        | N/A                          |

Database(s)

EDR ID Number EPA ID Number

### **CECOS INTERNATIONAL INC (Continued)**

| COS INTERNATIONAL                | inc (Continued)                               |                    |                        | 000 |  |  |  |
|----------------------------------|---|--------------------|------------------------|-----|--|--|--|
| Overfill Prot:                   | 2   | Dispenser:         | Suction                |     |  |  |  |
| Date Tested:                     | 12/01/1987                                    | Next Test Date:    | Not reported           |     |  |  |  |
| Date Closed:                     | Not reported                                  | Test Method:       | PETRO-TITE             |     |  |  |  |
| Deleted:                         | False   | Updated:           | False                  |     |  |  |  |
| Dead Letter:                     | False   | Owner Screen:      | Minor data missing     |     |  |  |  |
| FAMT:                            | Fiscal amount for registration fee is correct |                    |                        |     |  |  |  |
| Total Capacity:                  | 0   | Renewal Date:      | Not reported           |     |  |  |  |
| Tank Screen:                     | 0   | Federal ID:        | Not reported           |     |  |  |  |
| Renew Flag:                      | Renwal has not been printed                   | Facility Screen:   | No data missing        |     |  |  |  |
| Certification Flag:              | False   | Certification Date | e:11/14/1986           |     |  |  |  |
| Old PBS Number:                  | Not reported                                  | Expiration Date:   | 11/14/1991             |     |  |  |  |
| Inspected Date:                  | Not reported                                  | Inspector:         | Not reported           |     |  |  |  |
| Inspection Result:               | Not reported                                  |                    |                        |     |  |  |  |
| Lat/long:                        | Not reported                                  |                    |                        |     |  |  |  |
| Facility Type:                   | TRUCKING/TRANSPORTATION, OTHE                 | R                  |                        |     |  |  |  |
| Town or City:                    | NIAGARA FALLS (C)                             |                    |                        |     |  |  |  |
| Town or City Code:               | 11  |                    |                        |     |  |  |  |
| County Code:                     | 29  |                    |                        |     |  |  |  |
| Region:                          | 9   |                    |                        |     |  |  |  |
| PBS Number:                      | 9-040452                                      | CBS Number:        | 9-000212               |     |  |  |  |
| SPDES Number:                    | Not reported                                  | SWIS ID:           | 2911                   |     |  |  |  |
| Operator:                        | CECOS INTERNATIONAL INC                       |                    |                        |     |  |  |  |
|                                  | (716) 282-2676                                |                    |                        |     |  |  |  |
| Emergency Contact:               | SAM RICOTTA                                   |                    |                        |     |  |  |  |
| 0 7                              | (716) 754-7753                                |                    |                        |     |  |  |  |
| Total Tanks:                     | 0   |                    |                        |     |  |  |  |
| Owner:                           | CECOS INTERNATIONAL INC                       |                    |                        |     |  |  |  |
|                                  | BOX 340 L P O                                 |                    |                        |     |  |  |  |
|                                  | NIAGARA FALLS, NY 14304                       |                    |                        |     |  |  |  |
|                                  | (716) 282-2676                                |                    |                        |     |  |  |  |
| Owner Type:                      | Not reported                                  |                    |                        |     |  |  |  |
| Owner Mark:                      | First Owner                                   |                    |                        |     |  |  |  |
| Owner Subtype:                   | Not reported                                  |                    |                        |     |  |  |  |
| Mailing Address:                 | CECOS INTERNATIONAL INC                       |                    |                        |     |  |  |  |
|                                  | BOX 340 L P O                                 |                    |                        |     |  |  |  |
|                                  | NIAGARA FALLS, NY 14304                       |                    |                        |     |  |  |  |
|                                  | (716) 282-2676                                |                    |                        |     |  |  |  |
| Tank Status:                     | Closed Prior to 04/91 (Either Closed In-P     | lace or Removed)   |                        |     |  |  |  |
| Capacity (gals):                 | 2000  |                    |                        |     |  |  |  |
| Tank Location:                   | UNDERGROUND                                   | Lestell Deter      | Mature entral          |     |  |  |  |
| Tank Id:                         | CS2<br>Staal/aarban staal                     | Install Date:      | Not reported           |     |  |  |  |
| Tank Type:                       | Steel/carbon steel                            | Product Stored:    | DIESEL<br>Not reported |     |  |  |  |
| Tank Internal:                   | Not reported                                  | Pipe Internal:     | Not reported           | -,  |  |  |  |
| Pipe Location:<br>Tank External: | 2<br>Not reported                             | Pipe Type:         | GALVANIZED STEE        | ΞL  |  |  |  |
| Missing Data for Tank:           | Not reported<br>Minor Data Missing            |                    |                        |     |  |  |  |
| Pipe External:                   |   |                    |                        |     |  |  |  |
| Second Containment:              | Not reported<br>NONE                          |                    |                        |     |  |  |  |
| Leak Detection:                  | NONE  |                    |                        |     |  |  |  |
| Overfill Prot:                   | 2   | Dispenser:         | Suction                |     |  |  |  |
| Date Tested:                     | 2<br>12/01/1987                               | Next Test Date:    | Not reported           |     |  |  |  |
| Date Closed:                     | Not reported                                  | Test Method:       | PETRO-TITE             |     |  |  |  |
| Deleted:                         | False   | Updated:           | False                  |     |  |  |  |
| Dead Letter:                     | False   | Owner Screen:      | Minor data missing     |     |  |  |  |
| FAMT:                            | Fiscal amount for registration fee is corre-  |                    |                        |     |  |  |  |
| Total Capacity:                  | 0   | Renewal Date:      | Not reported           |     |  |  |  |
|                                  |   |                    |                        |     |  |  |  |

U003079275

| Map ID<br>Direction                    |   | MAP FINDINGS   |  |  |                              |
|--|---|--|--|--|------------------------------|
| Distance<br>Distance (ft.<br>Elevation | )<br>Site   |  |  | Database(s)  | EDR ID Numbe<br>EPA ID Numbe |
|  | CECOS INTERNATIONAL   | NC (Continued)   |  |  | U003079275                   |
|  | Tank Screen:<br>Renew Flag:<br>Certification Flag:<br>Old PBS Number:<br>Inspected Date:<br>Inspection Result:                                  | 0<br>Renwal has not been printed<br>False<br>Not reported<br>Not reported<br>Not reported  | Federal ID:<br>Facility Screen:<br>Certification Date<br>Expiration Date:<br>Inspector:                  |  |                              |
|  | Lat/long:<br>Facility Type:<br>Town or City:<br>Town or City Code:<br>County Code:<br>Region:   | Not reported<br>TRUCKING/TRANSPORTATION, OTHEI<br>NIAGARA FALLS (C)<br>11<br>29<br>9   | R  |  |                              |
|  | PBS Number:<br>SPDES Number:<br>Operator:<br>Emergency Contact:   | 9-040452<br>Not reported<br>CECOS INTERNATIONAL INC<br>(716) 282-2676<br>SAM RICOTTA   | CBS Number:<br>SWIS ID:  | 9-000212<br>2911   |                              |
|  | - /   | (716) 754-7753   |  |  |                              |
|  | Total Tanks:<br>Owner:  | 0<br>CECOS INTERNATIONAL INC<br>BOX 340 L P O<br>NIAGARA FALLS, NY 14304<br>(716) 282-2676   |  |  |                              |
|  | Owner Type:<br>Owner Mark:<br>Owner Subtype:<br>Mailing Address:  | Not reported<br>First Owner<br>Not reported<br>CECOS INTERNATIONAL INC<br>BOX 340 L P O<br>NIAGARA FALLS, NY 14304<br>(716) 282-2676           |  |  |                              |
|  | Tank Status:<br>Capacity (gals):<br>Tank Location:  | Closed Prior to 04/91 (Either Closed In-Pl<br>1000<br>UNDERGROUND  | lace or Removed)   |  |                              |
|  | Tank Id:<br>Tank Type:<br>Tank Internal:<br>Pipe Location:<br>Tank External:<br>Missing Data for Tank:<br>Pipe External:<br>Second Containment: | CS3<br>Steel/carbon steel<br>Not reported<br>2<br>Not reported<br>Minor Data Missing<br>Not reported<br>NONE                                   | Install Date:<br>Product Stored:<br>Pipe Internal:<br>Pipe Type:   | Not reported<br>UNLEADED GASO<br>Not reported<br>GALVANIZED STE        |                              |
|  | Leak Detection:<br>Overfill Prot:<br>Date Tested:<br>Date Closed:<br>Deleted:<br>Dead Letter:<br>FAMT:  | NONE<br>2<br>Not reported<br>Not reported<br>False<br>False<br>Fiscal amount for registration fee is correct                                   | Dispenser:<br>Next Test Date:<br>Test Method:<br>Updated:<br>Owner Screen:                               | Suction<br>Not reported<br>Not reported<br>False<br>Minor data missing |                              |
|  | Total Capacity:<br>Tank Screen:<br>Renew Flag:<br>Certification Flag:<br>Old PBS Number:<br>Inspected Date:<br>Inspection Result:<br>Lat/long:  | 0<br>0<br>Renwal has not been printed<br>False<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported | Renewal Date:<br>Federal ID:<br>Facility Screen:<br>Certification Date<br>Expiration Date:<br>Inspector: |  |                              |

Database(s)

EDR ID Number EPA ID Number

U003079275

# **CECOS INTERNATIONAL INC (Continued)**

| Facility Type:<br>Town or City:<br>Town or City Code:<br>County Code: | TRUCKING/TRANSPORTATION, OTHER<br>NIAGARA FALLS (C)<br>11<br>29 | र                  |              |
|---|---|--------------------|--------------|
| Region:   | 9   |                    |              |
| PBS AST:  |   |                    |              |
| PBS Number:   | 9-040452  | CBS Number:        | 9-000212     |
| SPDES Number:   | Not reported  | SWIS Code:         | 2911         |
| Federal ID:   | Not reported  | Previous PBS#:     |              |
| Facility Status:  | 2 - Unregulated by PBS (the total capacity Subpart 360-14.      |                    |              |
| Facility Type:  | TRUCKING/TRANSPORTATION<br>OTHER                                |                    |              |
| Owner Type:   | Not reported  |                    |              |
| Owner Sub Type:   | Not reported  |                    |              |
| Owner:  | CECOS INTERNATIONAL INC   |                    |              |
|   | BOX 340 L P O   |                    |              |
|   | NIAGARA FALLS, NY 14304   |                    |              |
| Owner Phone:  | (716) 282-2676  |                    |              |
| Facility Phone:   | (716) 282-2676  |                    |              |
| Operator:   | CECOS INTERNATIONAL INC   |                    |              |
| Emergency Name:   | SAM RICOTTA   |                    |              |
| Emergency Phone:  | (716) 754-7753  |                    |              |
| Total Tanks:  | 0   |                    |              |
| Total Capacity:   | 0   |                    |              |
| Tank ID:  | CS4   |                    |              |
| Capacity (Gal):   | 250   |                    |              |
| Missing Data for Tank :   | 0   |                    |              |
| Tank Location:  | ABOVEGROUND ON SADDLES LEGS, S                                  | STILTS, RACK, OF   | RCRADLE      |
| Product Stored:   | DIESEL<br>Steel/corbon steel                                    |                    |              |
| Tank Type:<br>Install Date:   | Steel/carbon steel  |                    |              |
| Tank Internal:  | Not reported  |                    |              |
| Tank External:  | Not reported  |                    |              |
| Tank Containment:   | NONE  |                    |              |
| Pipe Type:  | GALVANIZED STEEL  |                    |              |
| Pipe Location:  | Not reported  |                    |              |
| Pipe Internal:  | Not reported  |                    |              |
| Pipe External:  | Not reported  |                    |              |
| Leak Detection:   | NONE  |                    |              |
| Overfill Protection:  | Not reported  |                    |              |
| Dispenser Method:   | Gravity   |                    |              |
| Date Tested:  | / /   | Next Test Date:    |              |
| Date Closed:  | / /   | Test Method:       |              |
| Updated:  | False   | Deleted:           | False        |
| Date Inspected:   | Not reported  | Inspector:         | Not reported |
| Result of Inspection:   | Not reported  |                    |              |
| Mailing Name:   | CECOS INTERNATIONAL INC   |                    |              |
| Mailing Address:  | BOX 340 L P O<br>NIAGARA FALLS, NY 14304                        |                    |              |
| Mailing Contact:  | Not reported  |                    |              |
| Mailing Telephone:  | (716) 282-2676  | Evening the Post   | 44/44/4004   |
| Owner Mark:   | First Owner   | Expiration Date:   |              |
| Certification Flag:   | False   | Certification Date |              |
| Renew Flag:   | False<br>Not reported   | Renew Date:        | //           |
| Lat/Long:<br>Dead Letter:   | False   |                    |              |
| Dead Letter   |   |                    |              |

Map ID Direction Distance Distance (ft.) Elevation Site

Database(s)

EDR ID Number EPA ID Number

### U003079275

| CECOS INTERNATIONAL I   | NC (Continued)                            |                     |                  |
|-------------------------|---|---------------------|------------------|
| Facility Screen:        | No data missing                           |                     |                  |
| Owner Screen:           | Minor data missing                        |                     |                  |
| Tank Screen:            | 0   |                     |                  |
| Town or City:           | NIAGARA FALLS (C)                         |                     |                  |
| Town or City Code:      | 11  |                     |                  |
| County Code:            | 29  |                     |                  |
| Region:                 | 9   |                     |                  |
|                         | tration Fee is Correct: True              |                     |                  |
| Tiscal Amount for Regis |   |                     |                  |
| PBS Number:             | 9-040452                                  | CBS Number:         | 9-000212         |
| SPDES Number:           | Not reported                              | SWIS Code:          | 2911             |
| Federal ID:             | Not reported                              | Previous PBS#:      | -                |
| Facility Status:        | 2 - Unregulated by PBS (the total capacit |                     |                  |
| Facility Status.        | Subpart 360-14.                           | y is less than 1,10 | r galloris) artu |
|                         | •   |                     |                  |
| Facility Type:          | TRUCKING/TRANSPORTATION                   |                     |                  |
| 0                       | OTHER                                     |                     |                  |
| Owner Type:             | Not reported                              |                     |                  |
| Owner Sub Type:         |   |                     |                  |
| Owner:                  | CECOS INTERNATIONAL INC                   |                     |                  |
|                         | BOX 340 L P O                             |                     |                  |
|                         | NIAGARA FALLS, NY 14304                   |                     |                  |
| Owner Phone:            | (716) 282-2676                            |                     |                  |
| Facility Phone:         | (716) 282-2676                            |                     |                  |
| Operator:               | CECOS INTERNATIONAL INC                   |                     |                  |
| Emergency Name:         | SAM RICOTTA                               |                     |                  |
| Emergency Phone:        | (716) 754-7753                            |                     |                  |
| Total Tanks:            | 0   |                     |                  |
| Total Capacity:         | 0   |                     |                  |
| Tank ID:                | CS5                                       |                     |                  |
| Capacity (Gal):         | 250                                       |                     |                  |
| Missing Data for Tank : | 5   |                     |                  |
| Tank Location:          | ABOVEGROUND ON SADDLES LEGS,              | STILTS, RACK, O     | R CRADLE         |
| Product Stored:         | OTHER                                     |                     |                  |
| Tank Type:              | Steel/carbon steel                        |                     |                  |
| Install Date:           | / /                                       |                     |                  |
| Tank Internal:          | Not reported                              |                     |                  |
| Tank External:          | Not reported                              |                     |                  |
| Tank Containment:       | NONE                                      |                     |                  |
| Pipe Type:              | GALVANIZED STEEL                          |                     |                  |
| Pipe Location:          | Not reported                              |                     |                  |
| Pipe Internal:          | Not reported                              |                     |                  |
| Pipe External:          | Not reported                              |                     |                  |
| Leak Detection:         | NONE                                      |                     |                  |
| Overfill Protection:    | Not reported                              |                     |                  |
| Dispenser Method:       | Gravity                                   |                     |                  |
| Date Tested:            | //  | Next Test Date:     | //               |
| Date Closed:            | / /                                       | Test Method:        | Not reported     |
| Updated:                | False                                     | Deleted:            | False            |
| Date Inspected:         | Not reported                              | Inspector:          | Not reported     |
| Result of Inspection:   | Not reported                              |                     | •                |
| Mailing Name:           | CECOS INTERNATIONAL INC                   |                     |                  |
| Mailing Address:        | BOX 340 L P O                             |                     |                  |
| 0                       | NIAGARA FALLS, NY 14304                   |                     |                  |
| Mailing Contact:        | Not reported                              |                     |                  |
| Mailing Telephone:      | (716) 282-2676                            |                     |                  |
| Owner Mark:             | First Owner                               | Expiration Date:    | 11/14/1991       |
| Certification Flag:     | False                                     | Certification Date  |                  |
|                         |   | Duit                |                  |

| Map ID<br>Direction                    |                                    | MAP FINDINGS   |                     |          |             |                                |
|--|------------------------------------|--|---------------------|----------|-------------|--------------------------------|
| Distance<br>Distance (ft.<br>Elevation | )<br>Site                          |  |                     |          | Database(s) | EDR ID Number<br>EPA ID Number |
|  | CECOS INTERNATIONAL                | INC (Continued)  |                     |          |             | U003079275                     |
|  | Renew Flag:                        | False  | Renew Date:         | 11       |             |                                |
|  | Lat/Long:                          | Not reported   |                     |          |             |                                |
|  | Dead Letter:                       | False  |                     |          |             |                                |
|  | Facility Screen:                   | No data missing  |                     |          |             |                                |
|  | Owner Screen:                      | Minor data missing   |                     |          |             |                                |
|  | Tank Screen:                       | 0  |                     |          |             |                                |
|  | Town or City:                      | NIAGARA FALLS (C)  |                     |          |             |                                |
|  | Town or City Code:                 | 11   |                     |          |             |                                |
|  | County Code:                       | 29   |                     |          |             |                                |
|  | Region:<br>Fiscal Amount for Rogic | 9<br>tration Foo is Correct: True                            |                     |          |             |                                |
|  | FISCAL AMOUNT for Regis            | tration Fee is Correct: True                                 |                     |          |             |                                |
|  | PBS Number:                        | 9-040452   | CBS Number:         | 9-00     | 0212        |                                |
|  | SPDES Number:                      | Not reported   | SWIS Code:          | 291      |             |                                |
|  | Federal ID:                        | Not reported   | Previous PBS#:      |          |             |                                |
|  | Facility Status:                   | 2 - Unregulated by PBS (the total capacit<br>Subpart 360-14. | y is less than 1,10 | )1 galle | ons) and    |                                |
|  | Facility Type:                     | TRUCKING/TRANSPORTATION<br>OTHER                             |                     |          |             |                                |
|  | Owner Type:                        | Not reported   |                     |          |             |                                |
|  | Owner Sub Type:                    | Not reported   |                     |          |             |                                |
|  | Owner:                             | CECOS INTERNATIONAL INC                                      |                     |          |             |                                |
|  |                                    |  |                     |          |             |                                |
|  | Owner Phone:                       | NIAGARA FALLS, NY 14304<br>(716) 282-2676                    |                     |          |             |                                |
|  | Facility Phone:                    | (716) 282-2676   |                     |          |             |                                |
|  | Operator:                          | CECOS INTERNATIONAL INC                                      |                     |          |             |                                |
|  | Emergency Name:                    | SAM RICOTTA  |                     |          |             |                                |
|  | Emergency Phone:                   | (716) 754-7753   |                     |          |             |                                |
|  | Total Tanks:                       | 0  |                     |          |             |                                |
|  | Total Capacity:                    | 0  |                     |          |             |                                |
|  | Tank ID:                           | CS6  |                     |          |             |                                |
|  | Capacity (Gal):                    | 250  |                     |          |             |                                |
|  | Missing Data for Tank :            | •  |                     |          |             |                                |
|  | Tank Location:                     | ABOVEGROUND ON SADDLES LEGS,                                 | STILTS, RACK, C     | OR CR    | ADLE        |                                |
|  | Product Stored:                    | OTHER  |                     |          |             |                                |
|  | Tank Type:                         | Steel/carbon steel   |                     |          |             |                                |
|  | Install Date:                      | / /  |                     |          |             |                                |
|  | Tank Internal:<br>Tank External:   | Not reported<br>Not reported                                 |                     |          |             |                                |
|  | Tank Containment:                  | NONE   |                     |          |             |                                |
|  | Pipe Type:                         | GALVANIZED STEEL   |                     |          |             |                                |
|  | Pipe Location:                     | Not reported   |                     |          |             |                                |
|  | Pipe Internal:                     | Not reported   |                     |          |             |                                |
|  | Pipe External:                     | Not reported   |                     |          |             |                                |
|  | Leak Detection:                    | NONE   |                     |          |             |                                |
|  | Overfill Protection:               | Not reported   |                     |          |             |                                |
|  | Dispenser Method:                  | Gravity  |                     |          |             |                                |
|  | Date Tested:                       | //   | Next Test Date:     | //       |             |                                |
|  | Date Closed:                       | //   | Test Method:        |          | reported    |                                |
|  | Updated:                           | False  | Deleted:            | Fals     |             |                                |
|  | Date Inspected:                    | Not reported   | Inspector:          | Not      | reported    |                                |
|  | Result of Inspection:              |  |                     |          |             |                                |
|  | Mailing Name:                      | CECOS INTERNATIONAL INC<br>BOX 340 L P O                     |                     |          |             |                                |
|  | Mailing Address:                   | NIAGARA FALLS, NY 14304                                      |                     |          |             |                                |
|  | Mailing Contact:                   | Not reported   |                     |          |             |                                |
|  |                                    |  |                     |          |             |                                |

Map ID Direction Distance Distance (ft.) Elevation Site

Database(s)

EDR ID Number EPA ID Number

### U003079275

# **CECOS INTERNATIONAL INC (Continued)**

| Mailing Telephone:<br>Owner Mark:<br>Certification Flag:<br>Renew Flag:<br>Lat/Long:<br>Dead Letter:<br>Facility Screen:<br>Owner Screen:<br>Tank Screen:<br>Town or City:<br>Town or City Code:<br>County Code:<br>Region:<br>Fiscal Amount for Regist | <ul> <li>(716) 282-2676</li> <li>First Owner</li> <li>False</li> <li>False</li> <li>False</li> <li>Not reported</li> <li>False</li> <li>No data missing</li> <li>Minor data missing</li> <li>0</li> <li>NIAGARA FALLS (C)</li> <li>11</li> <li>29</li> <li>9</li> <li>tration Fee is Correct: True</li> </ul> | Expiration Date:<br>Certification Date<br>Renew Date: |                |
|---|---|---|----------------|
| PBS Number:   | 9-040452  | CBS Number:   | 9-000212       |
| SPDES Number:   | Not reported  | SWIS Code:  | 2911           |
| Federal ID:   | Not reported  | Previous PBS#:  | Not reported   |
| Facility Status:  | 2 - Unregulated by PBS (the total capacity  | / is less than 1,10 <sup>-</sup>                      | 1 gallons) and |
|   | Subpart 360-14.   |   |                |
| Facility Type:  | TRUCKING/TRANSPORTATION<br>OTHER  |   |                |
| Owner Type:   | Not reported  |   |                |
| Owner Sub Type:   | Not reported  |   |                |
| Owner:  | CECOS INTERNATIONAL INC   |   |                |
|   | BOX 340 L P O   |   |                |
|   | NIAGARA FALLS, NY 14304   |   |                |
| Owner Phone:  | (716) 282-2676  |   |                |
| Facility Phone:<br>Operator:  | (716) 282-2676<br>CECOS INTERNATIONAL INC   |   |                |
| Emergency Name:   | SAM RICOTTA   |   |                |
| Emergency Phone:  | (716) 754-7753  |   |                |
| Total Tanks:  | 0 Ý   |   |                |
| Total Capacity:   | 0   |   |                |
| Tank ID:  | CS7   |   |                |
| Capacity (Gal):   | 250   |   |                |
| Missing Data for Tank :   | -   |   |                |
| Tank Location:  | ABOVEGROUND ON SADDLES LEGS, S<br>OTHER   | STILTS, RACK, O                                       | R CRADLE       |
| Product Stored:<br>Tank Type:   | Steel/carbon steel  |   |                |
| Install Date:   |   |   |                |
| Tank Internal:  | Not reported  |   |                |
| Tank External:  | Not reported  |   |                |
| Tank Containment:   | NONE  |   |                |
| Pipe Type:  | GALVANIZED STEEL  |   |                |
| Pipe Location:  | Not reported  |   |                |
| Pipe Internal:<br>Pipe External:  | Not reported<br>Not reported  |   |                |
| Leak Detection:   | NONE  |   |                |
| Overfill Protection:  | Not reported  |   |                |
| Dispenser Method:   | Gravity   |   |                |
| Date Tested:  | //  | Next Test Date:                                       | //             |
| Date Closed:  | / /   | Test Method:  | Not reported   |
| Updated:  | False   | Deleted:  | False          |
| Date Inspected:   | Not reported  | Inspector:  | Not reported   |
| Result of Inspection:   | Not reported<br>CECOS INTERNATIONAL INC   |   |                |
| Mailing Name:   | CECCS INTERNATIONAL INC   |   |                |

|                                       |                                  |  | L                  |              |                                |
|---------------------------------------|----------------------------------|--|--------------------|--------------|--------------------------------|
| Map ID<br>Direction                   |                                  | MAP FINDINGS   |                    |              |                                |
| Distance<br>Distance (ft<br>Elevation | .)<br>Site                       |  |                    | Database(s)  | EDR ID Number<br>EPA ID Number |
|                                       |                                  |  |                    |              |                                |
|                                       | CECOS INTERNATIONAL              | INC (Continued)  |                    |              | U003079275                     |
|                                       | Mailing Address:                 | BOX 340 L P O<br>NIAGARA FALLS, NY 14304                   |                    |              |                                |
|                                       | Mailing Contact:                 | Not reported   |                    |              |                                |
|                                       | Mailing Telephone:               | (716) 282-2676   |                    |              |                                |
|                                       | Owner Mark:                      | First Owner  | Expiration Date:   |              |                                |
|                                       | Certification Flag:              | False  | Certification Date |              |                                |
|                                       | Renew Flag:                      | False  | Renew Date:        | //           |                                |
|                                       | Lat/Long:                        | Not reported   |                    |              |                                |
|                                       | Dead Letter:<br>Facility Screen: | False<br>No data missing                                   |                    |              |                                |
|                                       | Owner Screen:                    | Minor data missing   |                    |              |                                |
|                                       | Tank Screen:                     | 0  |                    |              |                                |
|                                       | Town or City:                    | NIAGARA FALLS (C)  |                    |              |                                |
|                                       | Town or City Code:               | 11   |                    |              |                                |
|                                       | County Code:                     | 29   |                    |              |                                |
|                                       | Region:                          | 9  |                    |              |                                |
|                                       | Fiscal Amount for Regis          | stration Fee is Correct: True                              |                    |              |                                |
|                                       | PBS Number:                      | 9-040452   | CBS Number:        | 9-000212     |                                |
|                                       | SPDES Number:                    | Not reported   | SWIS Code:         | 2911         |                                |
|                                       | Federal ID:                      | Not reported   | Previous PBS#:     |              |                                |
|                                       | Facility Status:                 | 2 - Unregulated by PBS (the total capacity Subpart 360-14. |                    |              |                                |
|                                       | Facility Type:                   | TRUCKING/TRANSPORTATION<br>OTHER                           |                    |              |                                |
|                                       | Owner Type:                      | Not reported   |                    |              |                                |
|                                       | Owner Sub Type:                  | Not reported   |                    |              |                                |
|                                       | Owner:                           | CECOS INTERNATIONAL INC                                    |                    |              |                                |
|                                       |                                  | BOX 340 L P O  |                    |              |                                |
|                                       |                                  | NIAGARA FALLS, NY 14304                                    |                    |              |                                |
|                                       | Owner Phone:                     | (716) 282-2676   |                    |              |                                |
|                                       | Facility Phone:                  | (716) 282-2676   |                    |              |                                |
|                                       | Operator:<br>Emergency Name:     | CECOS INTERNATIONAL INC<br>SAM RICOTTA                     |                    |              |                                |
|                                       | Emergency Phone:                 | (716) 754-7753   |                    |              |                                |
|                                       | Total Tanks:                     | 0  |                    |              |                                |
|                                       | Total Capacity:                  | 0  |                    |              |                                |
|                                       | Tank ID:                         | ČS8  |                    |              |                                |
|                                       | Capacity (Gal):                  | 300  |                    |              |                                |
|                                       | Missing Data for Tank :          | Minor data missing   |                    |              |                                |
|                                       | Tank Location:                   | ABOVEGROUND ON SADDLES LEGS,                               | STILTS, RACK, O    | R CRADLE     |                                |
|                                       | Product Stored:                  | OTHER  |                    |              |                                |
|                                       | Tank Type:                       | Steel/carbon steel   |                    |              |                                |
|                                       | Install Date:                    | //   |                    |              |                                |
|                                       | Tank Internal:                   | Not reported   |                    |              |                                |
|                                       | Tank External:                   | Not reported   |                    |              |                                |
|                                       | Tank Containment:                |  |                    |              |                                |
|                                       | Pipe Type:<br>Pipe Location:     | GALVANIZED STEEL   |                    |              |                                |
|                                       | Pipe Location:<br>Pipe Internal: | Not reported<br>Not reported                               |                    |              |                                |
|                                       | Pipe External:                   | Not reported   |                    |              |                                |
|                                       | Leak Detection:                  | NONE   |                    |              |                                |
|                                       | Overfill Protection:             | Not reported   |                    |              |                                |
|                                       | Dispenser Method:                | Submersible  |                    |              |                                |
|                                       | Date Tested:                     | / /  | Next Test Date:    | //           |                                |
|                                       | Date Closed:                     | 11   | Test Method:       | Not reported |                                |
|                                       | Updated:                         | False  | Deleted:           | False        |                                |
|                                       |                                  |  |                    |              |                                |

| Map ID   |  | MAP FINDING  | S  |   |                                |
|--|--|--|--|---|--------------------------------|
| Direction<br>Distance<br>Distance (ft<br>Elevation | .)<br>Site   | ч  |  | <br>Database(s)   | EDR ID Number<br>EPA ID Number |
|  | CECOS INTERNATIONAL  | INC (Continued)  |  |   | U003079275                     |
|  | Date Inspected:<br>Result of Inspection:<br>Mailing Name:<br>Mailing Address:<br>Mailing Contact:<br>Mailing Telephone:<br>Owner Mark:<br>Certification Flag:<br>Renew Flag:<br>Lat/Long:<br>Dead Letter:<br>Facility Screen:<br>Owner Screen:<br>Tank Screen:<br>Town or City:<br>Town or City Code:<br>County Code:<br>Region: | Not reported<br>Not reported<br>CECOS INTERNATIONAL INC<br>BOX 340 L P O<br>NIAGARA FALLS, NY 14304<br>Not reported<br>(716) 282-2676<br>First Owner<br>False<br>False<br>Not reported<br>False<br>No data missing<br>Minor data missing<br>0<br>NIAGARA FALLS (C)<br>11<br>29<br>9                      | •  | Not reported<br>ate: 11/14/1991<br>Date:11/14/1986  |                                |
| 12<br>SSW<br>1/4-1/2<br>1473 ft.                   | CAYUGA VILLAGE<br>512 B STREET<br>NIAGARA FALLS, NY  | tration Fee is Correct: True   |  | LTANKS<br>HIST LTANKS   | S100155498<br>N/A              |
| Relative:<br>Lower                                 |  | 2106<br>2106   | Region of Spill:<br>DER Facility ID:   | 9<br>229559   |                                |
| Actual:<br>573 ft.                                 | Site ID:282Spill Date:02/2Referred To:NotWater Affected:NotSpill Cause:TANFacility Address 2:NotInvestigator:Caller Name:DANCaller Phone:(716Notifier Name:NotSpiller Contact:NotSpiller:NotSpiller Company:BOESpiller County:001Spiller County:001Spiller County:001Spiller Class:Not   | 777<br>20/91<br>reported<br>reported<br>IK FAILURE<br>reported<br>RGI<br>/E EISENBART<br>5) 297-1770<br>reported<br>reported<br>reported<br>B STREET<br>GARA FALLS, NY<br>reported<br><b>b1/91</b><br>EECTED PERSONS<br>01/91<br>26/91<br>ard: True<br>y: Penalty Not Recommended<br>ae<br>ate: 05/01/91 | CID:<br>Reported to Dept:<br>DEC Region:<br>Spill Source:<br>Facility Tele:<br>SWIS:<br>Caller Agency:<br>Caller Extension:<br>Notifier Agency:<br>Notifier Extension:<br>Spiller Phone: | 29<br>02/20/91<br>9<br>PRIVATE DWELLING<br>Not reported<br>3211<br>CAYUGA VILLAGE<br>Not reported<br>Not reported |                                |

Database(s)

EDR ID Number EPA ID Number

| CAYUGA VILLAGE (C | Continued)                   |                   |                     |                       | S100155498 |
|-------------------|------------------------------|-------------------|---------------------|-----------------------|------------|
| Material          |                              |                   |                     |                       |            |
| Material ID :     | 428616                       |                   |                     |                       |            |
| Site ID :         | 282777                       |                   |                     |                       |            |
| Operable Unit :   | 01                           |                   |                     |                       |            |
| Operable Unit ID  |                              |                   |                     |                       |            |
| Material Code :   | 0001                         |                   |                     |                       |            |
| Material Name :   | #2 Fuel Oil                  |                   |                     |                       |            |
| Case No. :        | Not reported                 |                   |                     |                       |            |
| Material FA :     | Petroleum                    |                   |                     |                       |            |
| Quantity :        | 25.00                        |                   |                     |                       |            |
| Units :           | G                            |                   |                     |                       |            |
| Recovered :       | 6                            | No                |                     |                       |            |
| Resource Affect   | ed - Soil :                  | Yes               |                     |                       |            |
| Resource Affect   |                              | No                |                     |                       |            |
| Resource Affect   |                              | No                |                     |                       |            |
|                   | ed - Groundwater :           | No                |                     |                       |            |
|                   | ed - Surface Water :         | No                |                     |                       |            |
|                   | ed - Drinking Wtr :          | No                |                     |                       |            |
| Resource Affect   | 0                            | No                |                     |                       |            |
|                   | ed - Impervious Surface :    | No                |                     |                       |            |
| Resource Affect   |                              | No                |                     |                       |            |
| Resource Affect   | ,                            | No                |                     |                       |            |
|                   | ed - Impervious Surface :    | No                |                     |                       |            |
| Oxygenate :       | eu - Impervious Ourlace .    | False             |                     |                       |            |
| Tank Test         |                              | 1 4150            |                     |                       |            |
| Spill Tank Test : | Not reported                 |                   |                     |                       |            |
| Site ID :         | Not reported                 |                   |                     |                       |            |
| Tank Number :     | Not reported                 |                   |                     |                       |            |
| Tank Size :       | Not reported                 |                   |                     |                       |            |
| Test Method :     | Not reported                 |                   |                     |                       |            |
| Leak Rate :       | Not reported                 |                   |                     |                       |            |
| Gross Fail :      | Not reported                 |                   |                     |                       |            |
| Modified By :     | Not reported                 |                   |                     |                       |            |
| Last Modified :   | Not reported                 |                   |                     |                       |            |
| Test Method :     | Not reported                 |                   |                     |                       |            |
| DEC Remarks :     | Prior to Sept, 2004 data tra | inslation this si | oill Lead DEC Field | was "M.IS"            |            |
| DEO Romano .      | 02/20/91: MJS NOTIFIED I     |                   |                     |                       |            |
|                   | MJS SITE INSPECTION. S       |                   |                     |                       | BE         |
|                   | TESTED AND DISPOSED          |                   |                     |                       |            |
|                   | DFILL. EXCAVATION LOC        |                   |                     | BACKFILL. 03/18/91: M | JS         |
|                   | RECEIVED REPORT FRO          | M NCHD. WA        | TING FOR TESTIN     | G AND DISPOSAL FROM   |            |
|                   | EISENBART. 05/01/91: M       | IJS RECEIVED      | O ANALYTICAL RES    | SULTS AND DISPOSAL    |            |
|                   | <b>RECEIPTS FROM DAVID</b>   | EISENBART.        | 0.97                |                       |            |
|                   | TONS OF SOIL DISPOSE         | D OF AT MOD       | ERN LANDFILL.       |                       |            |
| Remark:           | TENANTS TANK LEAKED          | TO SOIL. TAN      | NK HAS BEEN PUM     | IPED OUT. WILL EXCAV  | ATE        |
|                   | SOIL AND DISPOSE.            |                   |                     |                       |            |
|                   |                              |                   |                     |                       |            |
| HIST LTANKS:      | 0010100                      |                   |                     | •                     |            |
| Spill Number:     | 9012106                      |                   | Region of Spill:    | 9                     |            |
| Spill Date:       | 02/20/1991 13:00             |                   | Reported to Dept:   |                       |            |
| Water Affected:   | Not reported                 |                   | Spill Source:       | Private Dwelling      |            |
| Resource Affectd  |                              |                   |                     |                       |            |
| Spill Cause:      | Tank Failure                 |                   |                     | Not rong to d         |            |
| Facility Contact: | Not reported                 |                   | Facility Tele:      | Not reported          |            |
| Investigator:     | MJS                          |                   | SWIS:               | 29<br>Not reported    |            |
| Caller Name:      | Not reported                 |                   | Caller Agency:      | Not reported          |            |
| Caller Phone:     | Not reported                 |                   | Caller Extension:   | Not reported          |            |
| Notifier Name     | Not reported                 |                   | Notifier Agency     | Not reported          |            |

Notifier Agency:

Not reported

Notifier Name: Not reported

| Map ID  | M  | AP FINDINGS  |  |  |
|---|--|--|--|--|
| Direction<br>Distance<br>Distance (ft.<br>Elevation | )<br>Site  |  | Database(s)  | EDR ID Number<br>EPA ID Number                 |
|   | CAYUGA VILLAGE (Continued)   |  |  | S100155498                                     |
|   | Notifier Phone:Not reportedSpiller Contact:Not reportedSpiller:BOB DUSCAVAGESpiller Address:512 B STREETNIAGARA FALLS, NYSpill Class:Not reportedSpill Closed Dt:05/01/91  |  | Not reported   |  |
|   | Spill Notifier:Affected PersonsCleanup Ceased:05/01/91Last Inspection:02/26/91Cleanup Meets Standard:TrueRecommended Penalty:Penalty Not RecoSpiller Cleanup Date:/ /Enforcement Date:/ /Investigation Complete:/ /UST Involvement:FalseSpill Record Last Update:05/01/91Is Updated:FalseCorrective Action Plan Submitted:Date Spill Entered In Computer Data File:Date Region Sent Summary to Central Office:Tank Test:PBS Number:Not reportedTank Number:Not reportedTank Number:Not reportedTast Method:Not reportedCapacity of Failed Tank:Not reportedGross Leak Rate:Not reportedGross Leak Rate:Not reportedMaterial:25Units:GallonsUnknown Qty Spilled:25Quantity Recovered:0Unknown Qty Recovered:FalseMaterial:#2 FUEL OILClass Type:PetroleumChem Abstract Service Number:Last Date:Num Times Material Entry In File:DEC Remarks:DEC Remarks:02/20/91: MJS NOTIFIED NSITE INSPECTION. SOIL SAND DISPOSED OF AT MCDTO BACKFILL.03/18/91: M.G AND DISPOSAL FROM DESULTS AND DISPOSAL RSPOSED OF AT MODERN | #2 FUEL OIL<br>12/07/1994<br>24464<br>CHD. THEY WILL SEND INSPECT<br>TAGED NEAR MAINTENENCE G/<br>DERN LANDFILL. EXCAVATION<br>JS RECEIVED REPORT FROM NO<br>DAVID EISENBART. 05/01/91: MJS<br>ECEIPTS FROM DAVID EISENB/<br>LANDFILL. | ARAGE. SOIL TO BE T<br>LOOKED OK. CAYUG/<br>CHD. WAITING FOR TE<br>S RECEIVED ANALYTIC<br>ART. 0.97 TONS OF SC | ESTED<br>A VILLAGE<br>ESTIN<br>CAL R<br>DIL DI |
|   | Spill Cause: TENANTS TANK LEAKED T<br>L AND DISPOSE.   | TO SOIL. TANK HAS BEEN PUMP  | ED OUT. WILL EXCAV   | ATE SOI  |

Database(s)

EDR ID Number EPA ID Number

| 13<br>South<br>1/4-1/2<br>1573 ft. | RAUSMANN RESIDEI<br>431 A STREET<br>NIAGARA FALLS, NY |                          |                                   |           |                                       | LTANKS<br>HIST LTANKS        | S101659211<br>N/A |
|------------------------------------|---|--------------------------|-----------------------------------|-----------|---------------------------------------|------------------------------|-------------------|
| Relative:<br>Lower                 | LTANKS:<br>Spill Number:                              | 9500110                  |                                   |           | Region of Spill:                      | 9                            |                   |
| Actual:                            | Facility ID:<br>Site ID:                              | 9500110<br>186820        |                                   |           | DER Facility ID:<br>CID:              | 156140<br>29                 |                   |
| 572 ft.                            | Spill Date:<br>Referred To:                           | 12/19/94<br>NIAGARA      | CNTY HEALTH                       | I DEPT    | Reported to Dept:<br>DEC Region:      | 9                            |                   |
|                                    | Water Affected:<br>Spill Cause:                       | Not report<br>TANK FAI   |                                   |           | Spill Source:                         | PRIVATE DWELLING             |                   |
|                                    | Facility Address 2                                    | •                        |                                   |           | Facility Tele:                        | Not reported                 |                   |
|                                    | Investigator:   | SACALAN                  |                                   |           | SWIS:                                 | 3211<br>NCUD                 |                   |
|                                    | Caller Name:<br>Caller Phone:                         | BOB BUZ                  |                                   |           | Caller Agency:                        | NCHD<br>Not reported         |                   |
|                                    | Notifier Name:  | (716) 278-<br>Not report |                                   |           | Caller Extension:<br>Notifier Agency: | Not reported<br>Not reported |                   |
|                                    | Notifier Phone:                                       | Not report               |                                   |           | Notifier Extension:                   |                              |                   |
|                                    | Spiller Contact:                                      | Not report               |                                   |           | Spiller Phone:                        | Not reported                 |                   |
|                                    | Spiller:  | Not report               |                                   |           |                                       |                              |                   |
|                                    | Spiller Company:<br>Spiller Address:                  |                          |                                   |           |                                       |                              |                   |
|                                    | Spiller Address.                                      | 431 A STE<br>NIAGARA     | FALLS, NY 143                     | 804       |                                       |                              |                   |
|                                    | Spiller County:                                       | 001                      |                                   |           |                                       |                              |                   |
|                                    | Spill Class:  |                          | ease that create sponsible Party. |           | fire or hazard. DEC<br>tion taken.    | Response.                    |                   |
|                                    | Spill Closed Dt:                                      |                          |                                   |           |                                       |                              |                   |
|                                    | Spill Notifier:                                       | OTHER                    |                                   |           |                                       |                              |                   |
|                                    | Cleanup Ceased:<br>Last Inspection:                   |                          |                                   |           |                                       |                              |                   |
|                                    | Cleanup Meets S                                       |                          | True                              |           |                                       |                              |                   |
|                                    | Recommended P   |                          | Penalty Not Re                    | commended |                                       |                              |                   |
|                                    | UST Trust:  | False                    | ,                                 |           |                                       |                              |                   |
|                                    | Spill Record Last                                     |                          | 11/12/99                          | / /       |                                       |                              |                   |
|                                    | Date Spill Entere                                     | •                        |                                   | 04/04/95  |                                       |                              |                   |
|                                    | Remediation Pha<br>Program Number                     |                          | 0<br>9500110                      |           |                                       |                              |                   |
|                                    | Regional Use:<br>Material                             |                          | Not reported                      |           |                                       |                              |                   |
|                                    | Material ID :   |                          | 368728                            |           |                                       |                              |                   |
|                                    | Site ID :   |                          | 186820                            |           |                                       |                              |                   |
|                                    | Operable Unit :<br>Operable Unit II                   | ۰.                       | 01                                |           |                                       |                              |                   |
|                                    | Material Code :                                       | J.                       | 1010868<br>0001                   |           |                                       |                              |                   |
|                                    | Material Name :                                       |                          | #2 Fuel Oil                       |           |                                       |                              |                   |
|                                    | Case No. :  |                          | Not reported                      |           |                                       |                              |                   |
|                                    | Material FA :   |                          | Petroleum                         |           |                                       |                              |                   |
|                                    | Quantity :<br>Units :                                 |                          | 0.00<br>G                         |           |                                       |                              |                   |
|                                    | Recovered :   |                          | 5                                 | No        |                                       |                              |                   |
|                                    | Resource Affect                                       | ted - Soil :             |                                   | Yes       |                                       |                              |                   |
|                                    | Resource Affect                                       |                          |                                   | No        |                                       |                              |                   |
|                                    | Resource Affect                                       |                          |                                   | No        |                                       |                              |                   |
|                                    | Resource Affect<br>Resource Affect                    |                          |                                   | No<br>No  |                                       |                              |                   |
|                                    | Resource Affect                                       |                          |                                   | No        |                                       |                              |                   |
|                                    | Resource Affect                                       |                          | •                                 | No        |                                       |                              |                   |
|                                    | Resource Affect                                       | ted - Imperv             | vious Surface :                   | No        |                                       |                              |                   |

Database(s)

EDR ID Number EPA ID Number

| RAUSMANN RESIDEN                 | ICE (Cont               | inued)                       |                  |                                    | S101659211                |
|----------------------------------|-------------------------|------------------------------|------------------|------------------------------------|---------------------------|
| Resource Affect                  | ed - Subwa              | iv :                         | No               |                                    |                           |
| Resource Affect                  |                         |                              | No               |                                    |                           |
| Resource Affect                  | ed - Imperv             | vious Surface :              | No               |                                    |                           |
| Oxygenate :                      |                         |                              | False            |                                    |                           |
| Tank Test                        |                         |                              |                  |                                    |                           |
| Spill Tank Test :                |                         | Not reported                 |                  |                                    |                           |
| Site ID :                        |                         | Not reported                 |                  |                                    |                           |
| Tank Number :                    |                         | Not reported                 |                  |                                    |                           |
| Tank Size :                      |                         | Not reported                 |                  |                                    |                           |
| Test Method :                    |                         | Not reported                 |                  |                                    |                           |
| Leak Rate :<br>Gross Fail :      |                         | Not reported<br>Not reported |                  |                                    |                           |
| Modified By :                    |                         | Not reported                 |                  |                                    |                           |
| Last Modified :                  |                         | Not reported                 |                  |                                    |                           |
| Test Method :                    |                         | Not reported                 |                  |                                    |                           |
| DEC Remarks :                    | Prior to Se             |                              | anslation this s | pill Lead DEC Field                | was                       |
|                                  |                         |                              |                  |                                    | PORT & ANALYTICAL         |
|                                  | RESULTS                 | FROM B.BUZZI                 | ELLI,LOW-LE\     | EL EXCEEDANCE                      | S FOR                     |
|                                  | PHENATH                 | IRENE,N-BUTYL                | BENZENE AN       | ND NAPHTHALENE                     | HIGHER THAN NORMAL DETE   |
|                                  | CTION LI                | MITS FOR 8021.               | 04/10/95: RE     | ECEIVED NCHD                       |                           |
|                                  |                         |                              |                  |                                    | OW-LEVEL EXCEED.FOR       |
|                                  |                         |                              |                  | APHTHALENE.HIG                     |                           |
|                                  |                         |                              | LETTER ASK       | KING FOR RESAMP                    | PLING BY 8021&8270.       |
|                                  | 06/08/95:               |                              |                  |                                    |                           |
|                                  |                         | TERS WERE BQ                 |                  | AND RETEST RES                     | SULTS FROM B.BUZZELLI,ALL |
| Remark:                          |                         |                              |                  | MOBILE HOME PAF                    | SK.                       |
|                                  |                         | LONE AT CATO                 | OA VILLAGE I     |                                    |                           |
| HIST LTANKS:                     | 0=00440                 |                              |                  |                                    |                           |
| Spill Number:                    | 9500110                 | 4 00:00                      |                  | Region of Spill:                   | 9                         |
| Spill Date:<br>Water Affected:   | 12/19/199<br>Not report |                              |                  | Reported to Dept:<br>Spill Source: |                           |
| Resource Affectd                 | •                       | eu                           |                  | Spill Source.                      | Private Dwelling          |
| Spill Cause:                     | Tank Failu              | ire                          |                  |                                    |                           |
| Facility Contact:                | Not report              |                              |                  | Facility Tele:                     | Not reported              |
| Investigator:                    | SAC-NCH                 |                              |                  | SWIS:                              | 29                        |
| Caller Name:                     | Not report              | ed                           |                  | Caller Agency:                     | Not reported              |
| Caller Phone:                    | Not report              | ed                           |                  | Caller Extension:                  | Not reported              |
| Notifier Name:                   | Not report              |                              |                  | Notifier Agency:                   | Not reported              |
| Notifier Phone:                  | Not report              |                              |                  | Notifier Extension:                |                           |
| Spiller Contact:                 | Not report              |                              |                  | Spiller Phone:                     | Not reported              |
| Spiller:                         |                         | KRAUSMANN                    |                  |                                    |                           |
| Spiller Address:                 | 431 A STI               |                              | 04               |                                    |                           |
| Spill Class:                     |                         | FALLS, NY 1430               |                  | ire or hazard. DEC I               | Response                  |
| opin oldos.                      |                         | sponsible Party.             | •                |                                    |                           |
| Spill Closed Dt:                 | 06/08/95                |                              |                  |                                    |                           |
| Spill Notifier:                  | Other                   |                              |                  | PBS Number:                        | Not reported              |
| Cleanup Ceased:                  | 06/08/95                |                              |                  |                                    |                           |
| Last Inspection:                 | 12/19/94                |                              |                  |                                    |                           |
| Cleanup Meets St                 |                         | True                         |                  |                                    |                           |
| Recommended P                    |                         | Penalty Not Re               | commended        |                                    |                           |
| Spiller Cleanup D                |                         | 11                           |                  |                                    |                           |
| Enforcement Date                 |                         | 11                           |                  |                                    |                           |
| Investigation Com                |                         | / /                          |                  |                                    |                           |
| UST Involvement                  |                         | False                        |                  |                                    |                           |
| Spill Record Last<br>Is Updated: | opuate:                 | 11/12/99<br>False            |                  |                                    |                           |
| is opualed.                      |                         | 1 0130                       |                  |                                    |                           |

| Map ID<br>Direction                   |                                   | MAF                                  | PFINDINGS  |                  |                 |                                |
|---------------------------------------|-----------------------------------|--------------------------------------|--|------------------|-----------------|--------------------------------|
| Distance<br>Distance (fl<br>Elevation | i.)<br>Site                       |                                      |  |                  | Database(s)     | EDR ID Number<br>EPA ID Number |
|                                       | RAUSMANN RESIDE                   | NCE (Continued)                      |  |                  |                 | S101659211                     |
|                                       | Corrective Action                 | Plan Submitted: /                    | /  |                  |                 |                                |
|                                       |                                   |                                      | 4/04/95  |                  |                 |                                |
|                                       | Date Region Sen<br>Tank Test:     | t Summary to Central Office: /       | /  |                  |                 |                                |
|                                       | PBS Number:                       | Not reported                         |  |                  |                 |                                |
|                                       | Tank Number:                      | Not reported                         |  |                  |                 |                                |
|                                       | Test Method:                      | Not reported                         |  |                  |                 |                                |
|                                       | Capacity of Fa<br>Leak Rate Fail  | •                                    |  |                  |                 |                                |
|                                       | Gross Leak Ra                     | •                                    |  |                  |                 |                                |
|                                       | Material:                         | _                                    |  |                  |                 |                                |
|                                       | Material Class<br>Quantity Spille |                                      |  |                  |                 |                                |
|                                       | Units:                            | Gallons                              |  |                  |                 |                                |
|                                       | Unknown Qty S                     | Spilled: No                          |  |                  |                 |                                |
|                                       | Quantity Reco                     |                                      |  |                  |                 |                                |
|                                       | Material:                         | Recovered: True<br>#2 FUEL OIL       |  |                  |                 |                                |
|                                       | Class Type:                       | Petroleum                            |  |                  |                 |                                |
|                                       |                                   |                                      | 2 FUEL OIL   |                  |                 |                                |
|                                       | Last Date:<br>Num Times Ma        |                                      | 2/07/1994<br>4464                                    |                  |                 |                                |
|                                       | DEC Remarks:                      | 2                                    | NSPECTION REPORT ANALY                               | TICAL RES        | ULTS FROM       | B.BUZZ                         |
|                                       |                                   | -                                    | NCES FOR PHENATHRENE,N                               |                  |                 |                                |
|                                       |                                   |                                      | ETECTION LIMITS FOR 8021.<br>SULTS FROMB.BUZZELLI,LO |                  |                 |                                |
|                                       |                                   |                                      | PHTHALENE.HIGH 8021 DETE                             |                  |                 |                                |
|                                       |                                   |                                      | MPLING BY 8021 8270. 06/08                           |                  |                 |                                |
|                                       |                                   | ECTION REPORT AND RETE               | EST RESULTS FROM B.BUZZI                             | ELLI,ALL PA      | ARAMETERS       | WERE BQL                       |
|                                       | Spill Cause:                      | TANK FAILURE AT CAYUGA               | VILLAGE MOBILE HOME PAR                              | RK.              |                 |                                |
| 14                                    | DUNN TIRE                         |                                      |  |                  | LTANKS          | S104950830                     |
| SSE                                   | 9540 NIAGARA FALL                 | S BLVD                               |  | HIS              | ST LTANKS       | N/A                            |
| 1/4-1/2<br>1761 ft.                   | NIAGARA FALLS, NY                 | 14304                                |  |                  |                 |                                |
| Relative:                             | LTANKS:                           | 0075504                              |  | •                |                 |                                |
| Lower                                 | Spill Number:<br>Facility ID:     | 0075561<br>0075561                   | Region of Spill:<br>DER Facility ID:                 | 9<br>75044       |                 |                                |
| Actual:                               | Site ID:                          | 81054                                | CID:   | 29               |                 |                                |
| 574 ft.                               | Spill Date:                       | 01/16/01                             | Reported to Dept:                                    | 01/16/01         |                 |                                |
|                                       | Referred To:<br>Water Affected:   | Not reported<br>Not reported         | DEC Region:<br>Spill Source:                         | 9<br>COMMER      | CIAL/INDUST     | ΡΙΔΙ                           |
|                                       | Spill Cause:                      | TANK FAILURE                         | Spill Source.  | COMMER           |                 | NAL                            |
|                                       | Facility Address 2                |                                      | Facility Tele:                                       | (716) 285-       | 5050            |                                |
|                                       | Investigator:                     | RMCROSSE                             | SWIS:  | 3211<br>ODEEN EI |                 | Ŧ                              |
|                                       | Caller Name:<br>Caller Phone:     | JIM WEHNER<br>(716) 298-5297         | Caller Agency:<br>Caller Extension:                  | Not reporte      | NVIRONMEN<br>ed | 1                              |
|                                       | Notifier Name:                    | Not reported                         | Notifier Agency:                                     | Not reporte      |                 |                                |
|                                       | Notifier Phone:                   | Not reported                         | Notifier Extension:                                  | Not reporte      | ed              |                                |
|                                       | Spiller Contact:                  | BILL REUTER (CONTRACTO               | DR) Spiller Phone:                                   | (716) 754-       | 4148            |                                |
|                                       | Spiller:<br>Spiller Company:      | FRANK AMENDOLA<br>FRANK AMENDOLA     |  |                  |                 |                                |
|                                       | Spiller Address:                  | POB 408                              |  |                  |                 |                                |
|                                       |                                   | NIAGARA FALLS, NY 14303              |  |                  |                 |                                |
|                                       | Spiller County:<br>Spill Class:   | 001<br>Known release that creates po | otential for fire or hazard. DEC I                   | Response         |                 |                                |
|                                       | opiii Oidoo.                      | Willing Responsible Party. Co        |  |                  |                 |                                |
|                                       |                                   |                                      |  |                  |                 |                                |

Map ID Direction Distance Distance (ft.) Elevation Site

Database(s)

EDR ID Number **EPA ID Number** 

### **DUNN TIRE (Continued)**

|  |                              |   | 01043300 |
|--|------------------------------|---|----------|
| Spill Closed Dt:11/12/04Spill Notifier:OTHER |                              |   |          |
| Cleanup Ceased: / /                          |                              |   |          |
| Last Inspection: 01/29/03                    |                              |   |          |
| Cleanup Meets Standard:                      | False                        |   |          |
| Recommended Penalty:                         | Penalty Not Rec              | commended                                       |          |
| UST Trust: True                              |                              |   |          |
| Spill Record Last Update:                    | 11/12/04                     |   |          |
| Date Spill Entered In Compu                  |                              | 01/16/01  |          |
| Remediation Phase:                           | 0                            |   |          |
| Program Number:                              | 0075561                      |   |          |
| Regional Use:                                | Not reported                 |   |          |
| Material                                     | 500407                       |   |          |
| Material ID :                                | 539137                       |   |          |
| Site ID :                                    | 81054                        |   |          |
| Operable Unit :                              | 01                           |   |          |
| Operable Unit ID :<br>Material Code :        | 836926<br>0009               |   |          |
| Material Name :                              | Gasoline                     |   |          |
| Case No. :                                   | Not reported                 |   |          |
| Material FA :                                | Petroleum                    |   |          |
| Quantity :                                   | 0.00                         |   |          |
| Units :                                      | G                            |   |          |
| Recovered :                                  | •                            | Νο  |          |
| Resource Affected - Soil :                   |                              | Yes   |          |
| Resource Affected - Air :                    |                              | No  |          |
| Resource Affected - Indoor                   | Air :                        | No  |          |
| Resource Affected - Ground                   | dwater :                     | No  |          |
| Resource Affected - Surfac                   | e Water :                    | No  |          |
| Resource Affected - Drinkir                  | ng Wtr :                     | No  |          |
| Resource Affected - Sewer                    | :                            | No  |          |
| Resource Affected - Imperv                   | vious Surface :              | No  |          |
| Resource Affected - Subwa                    | •                            | No  |          |
| Resource Affected - Utility :                |                              | No  |          |
| Resource Affected - Imperv                   | vious Surface :              | No  |          |
| Oxygenate :                                  |                              | False   |          |
| Tank Test                                    |                              |   |          |
| Spill Tank Test :                            | Not reported                 |   |          |
| Site ID :<br>Tank Number :                   | Not reported                 |   |          |
| Tank Number :<br>Tank Size :                 | Not reported                 |   |          |
| Test Method :                                | Not reported<br>Not reported |   |          |
| Leak Rate :                                  | Not reported                 |   |          |
| Gross Fail :                                 | Not reported                 |   |          |
| Modified By :                                | Not reported                 |   |          |
| Last Modified :                              | Not reported                 |   |          |
| Test Method :                                | Not reported                 |   |          |
|  |                              | nslation this spill Lead DEC Field was "RMC"    |          |
|  | AC TELECON JI                | M WEHNER - GREEN ENVIRONMENTAL SPECIALISTS, H   | ΙE       |
| HAS REM                                      | OVED THE TAN                 | KS AND STAGED CONTAMINATED SOIL ON THE PROPE    | RTY, HE  |
| HAS EXC.                                     | AVATED TO THE                | E FOUNDATION AND                                |          |
| BELIEVES                                     | S SOME HAS GC                | ONE UNDERNEATH THE BUILDING, HE WILL CONTINUE   | ГО       |
|  |                              | AN BUT REQUESTED AN INSPECTION, SAC SAID HE WO  |          |
| ARRANGI                                      | E TO HAVE THE                | NIAGARA COUNTY HEALTH DEPARTMENT INSPECT TH     | E SITE.  |
|  |                              | PAUL DICKY - N                                  |          |
| CHD REG                                      | ARDING THE SI                | TE AND ASKED IF HE COULD DO AN INSPECTION AT TH | ΙE       |

CHD REGARDING THE SITE AND ASKED IF HE COULD DO AN INSPECTION AT THE SITE, MR. DICKY RECOGNIZED WHERE THE SITE WAS AND INDICATED THAT THIS

S104950830

EDR ID Number Database(s) EPA ID Number

DUNN TIRE (Continued)

S104950830

| <b>,</b> |  |
|----------|--|
|          | SITE HAD SOME LOW LEVEL RADIOACTIVE CONTAMINATION AT THE SITE THAT HAD   |
|          | RESTRICTIONS REGARDING EXCAVATION OF TH                                  |
|          | E SOIL AT THE SITE, MR. DICKY WILL INSPECT ALONG WITH JOHN ARCHIBALD     |
|          | FROM THE NCHD WHO IS INVOLVED WITH RADIOACTIVE MATTERS FOR THE COUNTY,   |
|          | SAC THEN CALLED JIM WEHNER TO NOTIFY HIM OF THE SITUATION AND TO HAVE    |
|          | HIM STOP THE EXCAVATING AND THAT THE NC                                  |
|          | HD WAS GOING TO INSPECT THE SITE. 1/24/01:SAC TELECON PAUL DICKY         |
|          | - THEY INSPECTED THE SITE BUT THEY DID NOT HAVE A METER TO TELL IF THE   |
|          | SOIL WAS OF CONCERN, THE PROBLEM AT THE SITE IS THAT THE RADIOACTIVE     |
|          | MATERIAL WAS IN THE SLAG THAT WAS USE                                    |
|          | D JUST BELOW THE PAVED AREA ON THE SITE, THIS MATERIAL WAS NOW MIXED IN  |
|          | WITH THE PETROLEUM CONTAMINATED SOIL AND NOW COULD NOT BE SEGREGATED     |
|          | EASILY SO THAT IT COULD BE TAKEN TO MODERN DISPOSAL AS WAS ORIGINALLY    |
|          | PLANNED, IT WOULD HAVE TO GO TO A FACI                                   |
|          | LITY THAT TAKES MIXED WASTE BASED ON THE LEVEL OF RADIOACTIVITY AND THAT |
|          | WOULD MEAN IT WOULD HAVE TO BE TRANSPORTED TO UTAH, THEY WILL CONTACT    |
|          | BARB IGNATZ WITH THE NYS HEALTH DEPT TO NOTIFY HER OF THE SITUATION, SAC |
|          | NOTIFIED PJB REGARDING THE SITE.   |
|          | 1/24/01:SAC TELECON BARB IGNATZ - NYS HEALTH DEPT. AND DISCUSSED SITE,   |
|          | MS. IGNATZ WILL CONTACT ALBANY CENTRAL OFFICE OF HEALTH DEPARTMENT TO    |
|          | FIND OUT THEIR RECOMMENDATIONS AND GET BACK TO SAC. 1/26/01:SAC          |
|          | TELECON JIM WEHNER - MR. WEHNE   |
|          | R WANTED TO KNOW WHAT WAS STATUS OF THE PROJECT, EXCAVATION REMAINS OPEN |
|          | AND CONTRACTOR IS CONCERNED THAT THE FOUNDATION BEING EXPOSED FOR A LONG |
|          | TIME COULD CAUSE STRUCTURAL DAMAGE, MR. WEHNER SAID THAT HE WAS IN       |
|          | CONTACT WITH BUTCH EGAN OF ZEBRA TEC                                     |
|          | HNOLOGIES TO PROPOSE A PLAN ABOUT THE USE OF ORCS ON THE SITE SINCE      |
|          | THERE WAS A POSSIBILTY THE SOIL MIGHT HAVE TO BE PLACED IN THE           |
|          | EXCAVATION AND BECAUSE THEY WERE LOOKING INTO THIS REMEDIAL OPTION       |
|          | BECAUSE OF THE CONTAMINATION THAT WAS UNSDER THE FL                      |
|          | OOR, SAC TRIED TO CONTACT BARB IGNATZ AND JOHN ARCHIBALD BUT BOTH WERE   |
|          | UNAVAILABLE TODAY, WILL HAVE TO WAIT UNTIL NEXT WEEK, SAC CALLED PAUL    |
|          | DICKY ABOUT THIS AND MR. DICKY SAID HE WOULD SPEAK TO MR. ARCHIBALD WHEN |
|          | HE CAME BACK AND CALL SAC TO LET HI                                      |
|          | M KNOW WHAT THEY RECOMMENDED, SAC LATER RECEIVED MESSAGE FROM BARB       |
|          | YOUNGBERG - WHO IS IN DEC DIV OF SOLID AND HAZARDOUS MATERIALS -         |
|          | RADIATION BUREAU TO SEE IF THEY COULD BE OF ANY HELP, SAC WILL CONTACT   |
|          | HER NEXT WEEK. 1/29/01:SAC TELECON PAUL                                  |
|          | DICKY, MR. DICKY SPOKE TO JOHN ARCHIBALD WHO HAD SPOKEN TO BARB IGNATZ,  |
|          | THE HEALTH DEPARTMENT RECOMMENDED THE SOIL BE PLACED BACK IN THE         |
|          | EXCAVATION, SAC LATER SPOKE TO BARB YOUNGBERG ABOUT THE REMEDIAL OPTIONS |
|          | AND ABOUT THE HEALTH DEPT. RECOMMENDATI                                  |
|          | ON ABOUT BACKFILLING THE EXCAVATION WITH THE CONTAMINATED SOIL, MS.      |
|          | YOUNGBERG DID NOT HAVE A PROBLEM WITH THIS AT THE TIME, SAC HAD          |
|          | DISCUSSED THIS WITH PJB AND IT WAS AGREED THAT IN THIS SPECIAL CASE      |
|          | BECAUSE OF THE POTENTIAL OF RADIOACTIVE MATERIAL                         |
|          | IN THE SOIL THAT THIS WOULD TAKE PRECEDENCE AND THAT SOIL WOULD BE       |
|          | ALLOWED TO BE BACKFILLED, SAC CONTACTED JIM WEHNER TO LET HIM KNOW IT    |
|          | WAS OKAY TO BACKFILL THE MATERIAL ON THE SITE. 1/30/01:SAC               |
|          | TELECON BARB YOUNGBERG, MS. YOUNGBERG WANTED T                           |
|          | O KNOW IF THE SOIL HAD BEEN BACKFILLED SINCE THEY MAY WANT TO INSPECT    |
|          | IT, SAC TOLDHER HE BELIEVES IT HAD BUT WOULD FIND OUT FOR SURE IF IT HAD |
|          | BEEN, SAC CALLED JIM WEHNER WHO TOLD HIM THAT THE EXCAVATION HAD BEEN    |
|          | BACKFILLED BUT THEY WERE UNABLE TO B                                     |
|          | ACK FILL ALL THE MATERIAL INTO THE EXCAVATION SO THERE IS STILL SOME     |
|          | THAT THEY STAGED ON AND COVERED WITH PLASTIC. 2/1/01:SAC TELECON         |
|          | BARB YOUNGBERG TO LET HER KNOW ABOUT THE SITE. 2/2/01:SAC                |
|          |  |

| Map ID         | MAP FINDINGS |             |
|----------------|--------------|-------------|
| Direction      |              |             |
| Distance       |              |             |
| Distance (ft.) |              |             |
| Elevation Site |              | Database(s) |

**DUNN TIRE (Continued)** 

S104950830 RECEIVED MESSAGE FROM BARB YOUNGBERG THAT R EPRESENTATIVES FROM THEIR GROUP WERE COMING TO THE SITE ON 2/6/01 TO INSPECT THE SITE WITH THE HEALTH DEPT., SAC e-MAILED HER BACK TO LET HER KNOW HE WOULD BE UNABLE TO ATTEND DUE TO PREVIOUS APPOINTMENT BUT THAT SHE MAY WANT TO CONTACT JIM WEHNER T O ATTEND THE MEETING. 2/7/01:SAC TELECON PAUL DICKY, MR. DICKY SAID THAT AT THE MEETING THE REPRESENTATIVES FROM ALBANY DETERMINED THAT THE SOIL THAT REMAINED ON-SITE WOULD HAVE TO BE DISPOSED AT A MIXED WASTE FACILITY DUE TO THE RADIOACTIVIT Y OF THE SOIL, HE SAID THAT ALBANY WOULD BE CONTACTING SAC TO DISCUSS 3/14/01:SAC TELECON JIM WEHNER - GREEN THE SITE FURTHER. ENVIRONMENT, REGARDING THE SITE, MR. WEHNER IS STILL ARRANGING FOR THE DISPOSAL OF THE MATERIAL THAT IS PRESENTLY S TAGED ON-SITE, DUE TO THE COST INVOLVED IT MAY NOT BE SETTLED SOON, MR. WEHNER WILL SEND IN WORKPLAN ONCE THIS HAS BEEN SETTLED. 5/22/01:SAC TELECON JIM WEHNER, HE WAS GIVEN APPROVAL TO BACKFILL REMAINDER OF THE SOIL BY NYSDOH BY LETTER BUT L ETTER INDICATED REMOVAL COULD BE REQUIRED AT A LATER DATE, HE ASKED IF HE COULD INJECT ORCs AROUND THE SITE TO ENCAPSULATE THE AREA UNTIL REMOVAL IS ARRANGED AT SOME LATER DATE, SAC DISCUSS WITH PJB, BASED ON THE NYSDOH LETTER REMOVAL OF SOIL DOES N OT HAVE A DEFINITE TIME REQUIRED SO THEREFORE TREATMENT IS REQUIRED ON THE SOIL ITSELF. SAC TELECON JIM WEHNER INFORMING HIM OF THIS. MR. WEHNER WILL PUT TOGETHER WORKPLAN FOR THE SITE. 01/28/03 RMC/FILE. REASSIGNED SITE FROM SAC. REVIEWED FI LE. FOUR USTS REMOVED FROM THE SITE. AN AMOUNT OF PETROLEUM CONTAMINATED SOIL WAS STOCKPILED ON SITE. SOIL WAS LATER PUT BACK IN THE EXCAVATION DUE TO POTENTIAL LOW LEVEL RADIOACTIVITY OF THE AREA FROM SHALLOW BACKFILL USED IN THE PAST. ONE COMPOSI TE EXCAVATION SAMPLE TAKEN 1/16/01 SHOWED NO EXCEEDANCES BUT NOT ALL THE STARS COMPOUNDS WERE REPORTED. ALSO NOTE THAT NO SAMPLES WERE TAKEN OF THE MATERIAL PLACED BACK IN THE EXCAVTION. DEC NEEDS THE FOLLOWING FOR PETROLEUM CLOSURE. 1. FOUR BORIN GS OUTSIDE THE ORIGINAL EXCAVATION FOR STARS 8021/8270 COMPOUNDS. 2. TWO SAMPLES OF THE MATERIAL PUT BACK IN THE HOLE FOR 8021/8270 STARS COMPOUNDS. DRAFTED LETTER. UPDATE 2/28/03 01/29/03 RMC/SITE. NO SOILS FOUND TO BE STOCKPILED ON SITE. N O OPEN EXCAVATIONS NOTE. UPDATE 2/28/03 04/08/03 RMC/FILE. NO RESPONSE LETTER, REPONSE DUE 4/28/03 05/27/03 RMC/FILE. LETTER TO RPS ATTORNY, AS REQUESTED, RESPONDED TO 4/15/03 LETTER, RESPONSE DUE 10/09/03 RMC/FILE. NO R 7/30/03 EPONSE LETTER, TO LEGAL IF NO RESPONSE BY 10/30/03 10/16/03 RMC/FRANK A/PHONE. HE WILL LOOK INTO GETTING PETROLEUM SAMPLING DONE, 12/16/03 RMC/FILE. NOT RECEIVED, ANOTHER LETTER UPDATE 11/30/03 TO THE RP AND HIS ATTORNEY, RESPONSE DUE 12/30/03. 01/15/04 RMC/FILE. NO RESPONSE. LEFT MESSAGE FOR PRP. 01/26/04 RMC/FRANK A./PHONE. HE CONTACTED AN CALL DUE 1/20/04. ENVIRONMENTAL FIRM. RMC ADVISED DEC HAS NOT RECEIVED ANYTHING, HE SAID HE WOULD LOOK INTO AND CALL RIGHT BAC 01/26/04 RMC/FRANK A./PHONE. HE SAID HE K. CALL DUE 1/31/04. CALLED TOM OMALLI. RMC ADVISED THAT WORK NEEDS TO BE DONE AND DOCUMENTED, UPDATE 1/31/04. 02/24/04 RMC/FILE. CONTRACTOR HAS CONTACTED NYSDOH RE H AND S, REPORT DUE 3/30/04. 05/01/04 RMC/FILE. RECEIVED MESSAGE THAT HAZARD EVALUATION HAS BEEN HIRED AND THAT THEY ARE WORKING ON H AND S PLAN WITH DOH. UPDATE 05/24/04 RMC/FILE. RECEIVED WORK PLAN FROM HEI. PLAN ON 5/30/04 OBTAINING SIX SETS OF LAB RESULTS.

| Map ID<br>Direction | MAP FINDINGS |             |               |
|---------------------|--------------|-------------|---------------|
| Distance            |              |             |               |
| Distance (ft.)      |              |             | EDR ID Number |
| Elevation Site      |              | Database(s) | EPA ID Number |
|                     |              |             |               |

**DUNN TIRE (Continued)** 

FOUR OUTSIDE THE PREVIOUS EXCAVATION, TWO INSIDE THE PREVIOUS EXCAVATON. PLAN OK WITH DEC, RESULTS DUE 7/30/04. 08/01/04 RMC/FILE. SAC IS WORKING ON PLAN OF ACTION WITH DK, UPDATE 9/1/04. 8/?/04:DKK, SAC TELECON MARK VIRGIL - NYSDOH. DISCUSS COMMENTS BY NYSDOH FOR CONTRACTOR WORKPLAN. MR. VIRGIL WILL DISCUSS W/STEVE GAVITTS OF HIS OFFICE AND GET BACK TO DEC WITH RECOMMENDATIONS. MARK VIRGIL/STEVE GAVITTS - (518) 402-7556 8/24/04:SAC TELECON MARK VIRGIL. MR. VIRGIL WANTED TO KNOW WHERE DEC SPILLS WANTS TO INSTALL BORINGS AND HE WAS LOOKING AT HIS DATA TO DETERMINE RECOMMENDATIONS. SAC FAXED COPY OF SITE DRAWING TO MR. VIRGIL SHOWING WHERE TANKS WERE LOCATED. 8/25/04:SAC TELECON MARK VIRGIL. FURTHER DISC USSED SITE. A TECHNICIAN FROM HIS DIVISION WILL BE IN THE AREA THIS WEEK OR NEXT ON ANOTHER MATTER. HE WILL HAVE HIM INSPECT SITE TO HELP WITH RECOMMENDATIONS. HE WILL CONTINUE TO EVALUATE HIS DATA AND WILL CALL DEC BACK ONCE EVALUATION IS COMPLETED 9/29/04:SAC RECEIVED PHONE MESSAGE FROM SCOTT OVERHOFF - HAZARD EVALUATIONS. MR. OVERHOFF SPOKE TO NYSDOH AND THEY ANTICIPATE HAVING AN ANSWER REGARDING THE ON-SITE SOMETIME NEXT WEEK. 11/12/04 RMC/FILE. AFTER HAVING CONFRENCE CALL WIT H KING, SAC, AND STATE DOH IN OCTOBER DEC THOUGHT BOINGS OUTSIDE THE RADIATION ZONE WERE GOING TO MOVE FORWARD. LETTER DATED 10/22/04 TO DAN KING FROM STATE DOH BACKTRACKED ON THAT PLAN. DUE TO COST AND SEEMINGLY MOVING TARGET OF REQUIREMENTS BY ST ATE DOH, DEC WILL NOT PURSUE ACTION AT THIS TIME DUE TO RADIATION RISK VS COST. PETROLEUM TANKS (SOURCE) IS GONE, NO FREE PRODUCT NOTED, NO GW NOTED, RADIATION RISK UNKNOWN IF EXCAVATED, SITE TO BE MADE INACTIVE, LETTER. Remark: during removal of 4 ust's (two 1,000-gal. gasoline; one 300-gal. waste oil; one 500-gal. heating oil tank, contamination noted around gasoline and waste oil tanks. HIST LTANKS: Spill Number: 0075561 Region of Spill: 9 Spill Date: Reported to Dept: 01/16/01 13:00 01/16/2001 11:00 Water Affected: Not reported Spill Source: Other Commercial/Industrial Resource Affectd: On Land Spill Cause: Tank Failure Facility Contact: FRANK AMENDOLA Facility Tele: (716) 285-5050 Investigator: SAC-NCHD SWIS: 29 Caller Agency: Not reported Caller Name: Not reported Caller Phone: Not reported Caller Extension: Not reported Notifier Name: Not reported Notifier Agency: Not reported Notifier Phone: Not reported Notifier Extension: Not reported Spiller Contact: **BILL REUTER (CONTRACTOR)** Spiller Phone: (716) 754-4148 Spiller: FRANK AMENDOLA Spiller Address: NIAGARA BLDG., THIRD ST. NIAGARA FALLS, NY 14304 Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken. Spill Closed Dt: 11 Spill Notifier: Other PBS Number: Not reported Cleanup Ceased: / / Last Inspection: / / Cleanup Meets Standard: False Recommended Penalty: Penalty Not Recommended Spiller Cleanup Date: 11 Enforcement Date: 11

S104950830

Map ID Direction Distance Distance (ft.) Elevation Site

**DUNN TIRE (Continued)** 

Database(s)

EDR ID Number EPA ID Number

S104950830

|  |   |   |  |   | 010100000         |
|--|---|---|--|---|-------------------|
|  | Investigation Complete:   | //  |  |   |                   |
|  | UST Involvement:  | True  |  |   |                   |
|  | Spill Record Last Update:   | 05/29/01  |  |   |                   |
|  |   |   |  |   |                   |
|  | Is Updated:   | False   |  |   |                   |
|  | Corrective Action Plan Sub  |   |  |   |                   |
|  | Date Spill Entered In Comp  |   | 01 13:16   |   |                   |
|  | Date Region Sent Summar   | ry to Central Office: / /   |  |   |                   |
|  | Tank Test:  |   |  |   |                   |
|  | PBS Number:   | Not reported  |  |   |                   |
|  | Tank Number:  | Not reported  |  |   |                   |
|  | Test Method:  | Not reported  |  |   |                   |
|  | Capacity of Failed Tank:  |   |  |   |                   |
|  | Leak Rate Failed Tank:  |   |  |   |                   |
|  | Gross Leak Rate:  | Not reported  |  |   |                   |
|  |   | Not reported  |  |   |                   |
|  | Material:   |   |  |   |                   |
|  | Material Class Type:  | 1   |  |   |                   |
|  | Quantity Spilled:   | 0   |  |   |                   |
|  | Units:  | Gallons   |  |   |                   |
|  | Unknown Qty Spilled:  | No  |  |   |                   |
|  | Quantity Recovered:   | 0   |  |   |                   |
|  | Unknown Qty Recovere  | d: True   |  |   |                   |
|  | Material:   | GASOLINE  |  |   |                   |
|  | Class Type:   | Petroleum   |  |   |                   |
|  | Chem Abstract Service I   |   |  |   |                   |
|  |   |   |  |   |                   |
|  | Last Date:  | 09/29/  |  |   |                   |
|  | Num Times Material Ent  | •   |  |   |                   |
|  |   |   | 0-gal. gasoline; one 300-g   |   |                   |
|  |   |   | ntamination noted around   | gasoline a  |                   |
|  | nd waste  | e oil tanks.  |  |   |                   |
|  |   |   |  |   |                   |
|  |   |   |  |   |                   |
|  | Click this  | <u>s hyperlink</u> while viewing o  | n your computer to access  |   |                   |
|  |   | <u>s hyperlink</u> while viewing o<br>al HIST LTANKS detail in t  |  |   |                   |
|  |   |   |  |   |                   |
|  |   |   |  |   |                   |
| 15   |   |   |  | LTANKS  | S103038163        |
| 15<br>SW   | addition:   |   |  |   | S103038163<br>N/A |
| SW   | Additiona<br>CAYUGA VILLAGE<br>640 C STREET   |   |  | LTANKS  |                   |
| SW<br>1/4-1/2  | addition:   |   |  | LTANKS  |                   |
| SW   | Additiona<br>CAYUGA VILLAGE<br>640 C STREET   |   |  | LTANKS  |                   |
| SW<br>1/4-1/2<br>1785 ft.                                  | Additiona<br>CAYUGA VILLAGE<br>640 C STREET   |   |  | LTANKS  |                   |
| SW<br>1/4-1/2<br>1785 ft.<br>Relative:                     | addition:<br>CAYUGA VILLAGE<br>640 C STREET<br>NIAGARA FALLS, NY  | al HIST LTANKS detail in t  |  | LTANKS  |                   |
| SW<br>1/4-1/2<br>1785 ft.                                  | Addition:<br>CAYUGA VILLAGE<br>640 C STREET<br>NIAGARA FALLS, NY<br>LTANKS:<br>Spill Number: 9012112  | al HIST LTANKS detail in t  | he EDR Site Report.  | LTANKS<br>HIST LTANKS   |                   |
| SW<br>1/4-1/2<br>1785 ft.<br>Relative:<br>Lower            | Additiona<br>CAYUGA VILLAGE<br>640 C STREET<br>NIAGARA FALLS, NY<br>LTANKS:<br>Spill Number: 9012112<br>Facility ID: 9012112  | al HIST LTANKS detail in t  | he EDR Site Report.<br>Region of Spill:<br>DER Facility ID:  | LTANKS<br>HIST LTANKS<br>9<br>180660  |                   |
| SW<br>1/4-1/2<br>1785 ft.<br>Relative:<br>Lower<br>Actual: | Additiona<br>CAYUGA VILLAGE<br>640 C STREET<br>NIAGARA FALLS, NY<br>LTANKS:<br>Spill Number: 9012112<br>Facility ID: 9012112<br>Site ID: 218375   | al HIST LTANKS detail in t  | he EDR Site Report.<br>Region of Spill:<br>DER Facility ID:<br>CID:  | 9<br>180660<br>29   |                   |
| SW<br>1/4-1/2<br>1785 ft.<br>Relative:<br>Lower            | Additiona<br>CAYUGA VILLAGE<br>640 C STREET<br>NIAGARA FALLS, NY<br>LTANKS:<br>Spill Number: 9012112<br>Facility ID: 9012112<br>Site ID: 218375<br>Spill Date: 02/20/91   | al HIST LTANKS detail in t  | he EDR Site Report.<br>Region of Spill:<br>DER Facility ID:<br>CID:<br>Reported to Dept:   | 9<br>180660<br>29<br>02/20/91   |                   |
| SW<br>1/4-1/2<br>1785 ft.<br>Relative:<br>Lower<br>Actual: | Additional<br>CAYUGA VILLAGE<br>640 C STREET<br>NIAGARA FALLS, NY<br>LTANKS:<br>Spill Number: 9012112<br>Facility ID: 9012112<br>Site ID: 218375<br>Spill Date: 02/20/91<br>Referred To: Not report   | al HIST LTANKS detail in t  | Region of Spill:<br>DER Facility ID:<br>CID:<br>Reported to Dept:<br>DEC Region:   | 9<br>180660<br>29<br>02/20/91<br>9  |                   |
| SW<br>1/4-1/2<br>1785 ft.<br>Relative:<br>Lower<br>Actual: | Additional<br>CAYUGA VILLAGE<br>640 C STREET<br>NIAGARA FALLS, NY<br>LTANKS:<br>Spill Number: 9012112<br>Facility ID: 9012112<br>Site ID: 218375<br>Spill Date: 02/20/91<br>Referred To: Not report<br>Water Affected: Not report   | al HIST LTANKS detail in t  | he EDR Site Report.<br>Region of Spill:<br>DER Facility ID:<br>CID:<br>Reported to Dept:   | 9<br>180660<br>29<br>02/20/91   |                   |
| SW<br>1/4-1/2<br>1785 ft.<br>Relative:<br>Lower<br>Actual: | Additional<br>CAYUGA VILLAGE<br>640 C STREET<br>NIAGARA FALLS, NY<br>LTANKS:<br>Spill Number: 9012112<br>Facility ID: 9012112<br>Site ID: 218375<br>Spill Date: 02/20/91<br>Referred To: Not repo<br>Water Affected: Not repo<br>Spill Cause: TANK O  | al HIST LTANKS detail in t  | Region of Spill:<br>DER Facility ID:<br>CID:<br>Reported to Dept:<br>DEC Region:<br>Spill Source:  | 9<br>180660<br>29<br>02/20/91<br>9<br>PRIVATE DWELLING  |                   |
| SW<br>1/4-1/2<br>1785 ft.<br>Relative:<br>Lower<br>Actual: | CAYUGA VILLAGE<br>640 C STREET<br>NIAGARA FALLS, NY<br>LTANKS:<br>Spill Number: 9012112<br>Facility ID: 9012112<br>Site ID: 218375<br>Spill Date: 02/20/91<br>Referred To: Not repo<br>Water Affected: Not repo<br>Spill Cause: TANK O<br>Facility Address 2:Not repo   | al HIST LTANKS detail in t  | Region of Spill:<br>DER Facility ID:<br>CID:<br>Reported to Dept:<br>DEC Region:<br>Spill Source:<br>Facility Tele:  | 9<br>180660<br>29<br>02/20/91<br>9<br>PRIVATE DWELLING<br>Not reported  |                   |
| SW<br>1/4-1/2<br>1785 ft.<br>Relative:<br>Lower<br>Actual: | CAYUGA VILLAGE<br>640 C STREET<br>NIAGARA FALLS, NY<br>LTANKS:<br>Spill Number: 9012112<br>Facility ID: 9012112<br>Site ID: 218375<br>Spill Date: 02/20/91<br>Referred To: Not repo<br>Water Affected: Not repo<br>Spill Cause: TANK O<br>Facility Address 2:Not repo<br>Investigator: SORGI  | al HIST LTANKS detail in t  | Region of Spill:<br>DER Facility ID:<br>CID:<br>Reported to Dept:<br>DEC Region:<br>Spill Source:<br>Facility Tele:<br>SWIS:   | 9<br>180660<br>29<br>02/20/91<br>9<br>PRIVATE DWELLING<br>Not reported<br>3211  |                   |
| SW<br>1/4-1/2<br>1785 ft.<br>Relative:<br>Lower<br>Actual: | CAYUGA VILLAGE<br>640 C STREET<br>NIAGARA FALLS, NY<br>LTANKS:<br>Spill Number: 9012112<br>Facility ID: 9012112<br>Site ID: 218375<br>Spill Date: 02/20/91<br>Referred To: Not repo<br>Water Affected: Not repo<br>Spill Cause: TANK O<br>Facility Address 2:Not repo<br>Investigator: SORGI<br>Caller Name: MICHEL   | al HIST LTANKS detail in t  | Region of Spill:<br>DER Facility ID:<br>CID:<br>Reported to Dept:<br>DEC Region:<br>Spill Source:<br>Facility Tele:<br>SWIS:<br>Caller Agency:   | 9<br>180660<br>29<br>02/20/91<br>9<br>PRIVATE DWELLING<br>Not reported<br>3211<br>CITIZEN   |                   |
| SW<br>1/4-1/2<br>1785 ft.<br>Relative:<br>Lower<br>Actual: | CAYUGA VILLAGE<br>640 C STREET<br>NIAGARA FALLS, NY<br>LTANKS:<br>Spill Number: 9012112<br>Facility ID: 9012112<br>Site ID: 218375<br>Spill Date: 02/20/91<br>Referred To: Not repo<br>Water Affected: Not repo<br>Spill Cause: TANK O<br>Facility Address 2:Not repo<br>Investigator: SORGI  | al HIST LTANKS detail in t<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2   | Region of Spill:<br>DER Facility ID:<br>CID:<br>Reported to Dept:<br>DEC Region:<br>Spill Source:<br>Facility Tele:<br>SWIS:<br>Caller Agency:<br>Caller Extension:  | 9<br>180660<br>29<br>02/20/91<br>9<br>PRIVATE DWELLING<br>Not reported<br>3211  |                   |
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Database(s)

EDR ID Number EPA ID Number

S103038163

# CAYUGA VILLAGE (Continued)

| Cleanup Ceased: 02<br>Last Inspection: 01<br>Cleanup Meets Stand<br>Recommended Pena | /16/91<br>dard: True<br>lty: Penalty Not Rec<br>lse | commended                    |                                    |  |
|--|---|------------------------------|------------------------------------|--|
| Date Spill Entered In Remediation Phase:   |   | 02/21/91                     |                                    |  |
| Program Number:  | 9012112   |                              |                                    |  |
| Regional Use:  | Not reported  |                              |                                    |  |
| Material   |   |                              |                                    |  |
| Material ID :  | 428622  |                              |                                    |  |
| Site ID :  | 218375  |                              |                                    |  |
| Operable Unit :  | 01  |                              |                                    |  |
| Operable Unit ID :   | 951960  |                              |                                    |  |
| Material Code :  | 0001  |                              |                                    |  |
| Material Name :  | #2 Fuel Oil   |                              |                                    |  |
| Case No. :   | Not reported  |                              |                                    |  |
| Material FA :  | Petroleum   |                              |                                    |  |
| Quantity :   | 2.00  |                              |                                    |  |
| Units :  | G   |                              |                                    |  |
| Recovered :  |   | 2                            |                                    |  |
| Resource Affected -  | Soil :  | Yes                          |                                    |  |
| Resource Affected -  | Air :   | No                           |                                    |  |
| Resource Affected -  | Indoor Air :  | No                           |                                    |  |
| Resource Affected -  | Groundwater :                                       | No                           |                                    |  |
| Resource Affected -  | Surface Water :                                     | No                           |                                    |  |
| Resource Affected -  | Drinking Wtr :                                      | No                           |                                    |  |
| Resource Affected -  | Sewer:  | No                           |                                    |  |
| Resource Affected -  | Impervious Surface :                                | No                           |                                    |  |
| Resource Affected -  | •   | No                           |                                    |  |
| Resource Affected -  | 2   | No                           |                                    |  |
|  | Impervious Surface :                                | No                           |                                    |  |
| Oxygenate :  |   | False                        |                                    |  |
| Tank Test  |   |                              |                                    |  |
| Spill Tank Test :  | Not reported  |                              |                                    |  |
| Site ID :  | Not reported  |                              |                                    |  |
| Tank Number :  | Not reported  |                              |                                    |  |
| Tank Size :  | Not reported  |                              |                                    |  |
| Test Method :  | Not reported  |                              |                                    |  |
| Leak Rate :<br>Gross Fail :  | Not reported  |                              |                                    |  |
|  | Not reported<br>Not reported                        |                              |                                    |  |
| Modified By :<br>Last Modified :   | Not reported  |                              |                                    |  |
| Test Method :  | Not reported  |                              |                                    |  |
|  | or to Sept, 2004 data tra                           | nelation this er             | vill Lead DEC Field                | was "MIS"  |
| 02   |   | BY MAINTEN                   | NENCE CREW FRC                     | M CAYUGA VILLAGE. CAUSED                         |
| Remark: TR<br>CC   | UCK DRIVER OVERFIL                                  | LED A/G #2 F<br>TANK. NO OII | .O. TANK DURING<br>_ APPEARED TO R | DELIVERY. SPILLED ON<br>EACH GROUND. MAINTENENCE |
| HIST LTANKS:   |   |                              |                                    |  |
|  | 12112   |                              | Region of Spill:                   | 9  |
|  | /15/1991 17:00                                      |                              | Reported to Dept:                  |  |
|  | t reported  |                              | Spill Source:                      | Private Dwelling                                 |
| Resource Affectd: On   | •   |                              | -P 6001001                         |  |

Map ID Direction Distance Distance (ft.) Elevation Site

Database(s)

EDR ID Number EPA ID Number

S103038163

# CAYUGA VILLAGE (Continued)

| Spill Cause:                 | Tank Ove     | rfill              |             |                     |                            |
|------------------------------|--------------|--------------------|-------------|---------------------|----------------------------|
| Facility Contact:            | Not report   |                    |             | Facility Tele:      | Not reported               |
| Investigator:                | MJS          |                    |             | SWIS:               | 29                         |
| Caller Name:                 | Not report   | ed                 |             | Caller Agency:      | Not reported               |
| Caller Phone:                | Not report   |                    |             | Caller Extension:   | Not reported               |
| Notifier Name:               | Not report   |                    |             | Notifier Agency:    | Not reported               |
| Notifier Phone:              | Not report   |                    |             | Notifier Extension: |                            |
| Spiller Contact:             | Not report   |                    |             | Spiller Phone:      | Not reported               |
| Spiller:                     | •            | RIVER (DELIVER     | RY)         | opinor r nonor      |                            |
| Spiller Address:             | Not report   | `                  | )           |                     |                            |
| Spill Class:                 | Not report   |                    |             |                     |                            |
| Spill Closed Dt:             | 02/22/91     |                    |             |                     |                            |
| Spill Notifier:              | Health De    | partment           |             | PBS Number:         | Not reported               |
| Cleanup Ceased               |              | F                  |             |                     |                            |
| Last Inspection:             |              |                    |             |                     |                            |
| Cleanup Meets S              |              | True               |             |                     |                            |
| Recommended F                |              | Penalty Not Rec    | commended   |                     |                            |
| Spiller Cleanup E            | ,            | 11                 |             |                     |                            |
| Enforcement Dat              |              | 11                 |             |                     |                            |
| Investigation Cor            | nplete:      | 11                 |             |                     |                            |
| UST Involvemen               | •            | False              |             |                     |                            |
| Spill Record Last            | Update:      | 02/26/91           |             |                     |                            |
| Is Updated:                  |              | False              |             |                     |                            |
| Corrective Action            | Plan Subm    | nitted:            | //          |                     |                            |
| Date Spill Entere            | d In Compu   | ter Data File:     | 02/21/91    |                     |                            |
| Date Region Ser              | t Summary    | to Central Office: | //          |                     |                            |
| Tank Test:                   |              |                    |             |                     |                            |
| PBS Number:                  |              | Not reported       |             |                     |                            |
| Tank Number:                 |              | Not reported       |             |                     |                            |
| Test Method:                 |              | Not reported       |             |                     |                            |
| Capacity of Fa               | iled Tank:   | Not reported       |             |                     |                            |
| Leak Rate Fai                |              | Not reported       |             |                     |                            |
| Gross Leak Ra                | ate:         | Not reported       |             |                     |                            |
| Material:                    |              |                    |             |                     |                            |
| Material Class               | ••           | 1                  |             |                     |                            |
| Quantity Spille              | d:           | 2                  |             |                     |                            |
| Units:                       |              | Gallons            |             |                     |                            |
| Unknown Qty                  | •            | 2                  |             |                     |                            |
| Quantity Reco                |              | 2                  |             |                     |                            |
| Unknown Qty                  | Recovered:   |                    |             |                     |                            |
| Material:                    |              | #2 FUEL OIL        |             |                     |                            |
| Class Type:                  |              | Petroleum          |             |                     |                            |
| Chem Abstrac                 | t Service Ni | umper:             | #2 FUEL OIL |                     |                            |
| Last Date:                   |              |                    | 12/07/1994  |                     |                            |
| Num Times Ma<br>DEC Remarks: |              |                    |             |                     |                            |
| DEC Remarks:                 |              | VERFILL DURIN      |             |                     | M CAYUGA VILLAGE. CAUSED B |
| Spill Cause:                 | -            | -                  | -           |                     | DELIVERY. SPILLED ON CON   |
| opin Gause.                  |              | -                  |             |                     | H GROUND. MAINTENENCE CREW |
|                              |              |                    |             |                     | I GROOND. WAINTENENCE OREW |
|                              |              |                    |             | •                   |                            |

| Map ID                     |                                       |                          | М                              | AP FINDINGS | 3                                     |                    |             |                                |
|----------------------------|---------------------------------------|--------------------------|--------------------------------|-------------|---------------------------------------|--------------------|-------------|--------------------------------|
| Direction<br>Distance      | ,                                     | Ч                        |                                |             |                                       |                    |             |                                |
| Distance (ft.<br>Elevation | .)<br>Site                            |                          |                                |             |                                       |                    | Database(s) | EDR ID Number<br>EPA ID Number |
| 16                         |                                       |                          |                                |             |                                       |                    | CERC-NFRAP  | 1002962725                     |
| 16<br>WNW                  | DIBACC0 LF SITE 1<br>PORTER & TUSCARO |                          |                                |             |                                       |                    | CERC-NFRAP  | 1003863725<br>NYD980508097     |
| 1/4-1/2                    | NIAGARA FALLS, NY                     |                          |                                |             |                                       |                    |             |                                |
| 1941 ft.                   |                                       |                          |                                |             |                                       |                    |             |                                |
| Relative:                  | CERCLIS-NFRAP C                       | lassificatio             | n Data:                        |             |                                       |                    |             |                                |
| Higher                     | Federal Facility:                     | Not a F                  | ederal Facility                |             |                                       |                    |             |                                |
| -                          | Non NPL Code:                         | NFRAF                    |                                |             |                                       |                    |             |                                |
| Actual:<br>580 ft.         | NPL Status:                           |                          | the NPL                        |             |                                       |                    |             |                                |
| 560 H.                     | CERCLIS-NFRAP A<br>Assessment:        | ssessment<br>DISCO       |                                |             | Com                                   | pleted:            | 04/01/1980  |                                |
|                            | Assessment:                           |                          | VINARY ASSESS                  | MENT        |                                       | pleted:            | 11/01/1981  |                                |
|                            | Assessment:                           |                          | SPECTION                       |             |                                       | pleted:            | 11/01/1981  |                                |
|                            | Assessment:                           |                          | SPECTION                       |             |                                       | pleted:            | 02/01/1992  |                                |
|                            | Assessment:                           | ARCHI                    | VE SITE                        |             | Com                                   | pleted:            | 02/01/1992  |                                |
| 17                         | CAYUGA VILL. MOBIL                    | _E PARK                  |                                |             |                                       |                    | LTANKS      | S100117626                     |
| South                      | NIAGARA FALLS BLV                     | /D.                      |                                |             |                                       |                    | HIST LTANKS | N/A                            |
| 1/4-1/2<br>1957 ft.        | NIAGARA FALLS, NY                     |                          |                                |             |                                       |                    |             |                                |
| Relative:                  | LTANKS:                               |                          |                                |             |                                       |                    |             |                                |
| Lower                      | Spill Number:                         | 8809760                  |                                |             | Region of Spill:                      | 9                  |             |                                |
|                            | Facility ID:                          | 8809760                  |                                |             | DER Facility ID:                      | 170323             |             |                                |
| Actual:                    | Site ID:                              | 205018                   |                                |             | CID:                                  | Not rep            |             |                                |
| 573 ft.                    | Spill Date:<br>Referred To:           | 03/17/89                 | ad                             |             | Reported to Dept:<br>DEC Region:      | 03/17/8<br>9       | 9           |                                |
|                            | Water Affected:                       | Not report<br>Not report |                                |             | Spill Source:                         | -                  | TE DWELLING |                                |
|                            | Spill Cause:                          | TANK FAI                 |                                |             |                                       | 1 1 1 1 1 1 1 1    |             |                                |
|                            | Facility Address 2                    | :Not report              | ed                             |             | Facility Tele:                        | (716) 2            | 98-5226     |                                |
|                            | Investigator:                         | MJHINTO                  |                                |             | SWIS:                                 | 3211               |             |                                |
|                            | Caller Name:                          | TOM ALM                  | -                              |             | Caller Agency:                        |                    | IOST INS CO |                                |
|                            | Caller Phone:<br>Notifier Name:       | (716) 437<br>Not report  |                                |             | Caller Extension:<br>Notifier Agency: | Not rep<br>Not rep |             |                                |
|                            | Notifier Phone:                       | Not report               |                                |             | Notifier Extension:                   | Not rep            |             |                                |
|                            | Spiller Contact:                      | Not report               |                                |             | Spiller Phone:                        | Not rep            |             |                                |
|                            | Spiller:                              | Not report               |                                |             |                                       |                    |             |                                |
|                            | Spiller Company:                      |                          |                                |             |                                       |                    |             |                                |
|                            | Spiller Address:                      |                          | YUGA VILLAGE<br>FALLS, NY 1430 | 4           |                                       |                    |             |                                |
|                            | Spiller County:                       | 001                      | TALLO, NT 1450                 | -           |                                       |                    |             |                                |
|                            | Spill Class:                          | Not report               | ed                             |             |                                       |                    |             |                                |
|                            | Spill Closed Dt:                      | 08/22/89                 |                                |             |                                       |                    |             |                                |
|                            | Spill Notifier:                       | OTHER                    |                                |             |                                       |                    |             |                                |
|                            | Cleanup Ceased:                       |                          |                                |             |                                       |                    |             |                                |
|                            | Last Inspection:<br>Cleanup Meets St  |                          | True                           |             |                                       |                    |             |                                |
|                            | Recommended P                         | enalty:                  | Penalty Not Rec                | ommended    |                                       |                    |             |                                |
|                            | UST Trust:                            | False                    |                                |             |                                       |                    |             |                                |
|                            | Spill Record Last                     |                          | 09/05/89                       | 02/21/20    |                                       |                    |             |                                |
|                            | Date Spill Entered<br>Remediation Pha |                          | 0                              | 03/21/89    |                                       |                    |             |                                |
|                            | Program Number                        |                          | 8809760                        |             |                                       |                    |             |                                |
|                            | Regional Use:<br>Material             |                          | Not reported                   |             |                                       |                    |             |                                |
|                            | Material ID :                         |                          | 450935                         |             |                                       |                    |             |                                |
|                            | Site ID :                             |                          | 205018                         |             |                                       |                    |             |                                |
|                            | Operable Unit :                       |                          | 01                             |             |                                       |                    |             |                                |
|                            | Operable Unit ID                      | ):                       | 925822                         |             |                                       |                    |             |                                |
|                            | Material Code :                       |                          | 0001<br>#2 Fuel Oil            |             |                                       |                    |             |                                |
|                            | Material Name :                       |                          | #2 Fuel Oil                    |             |                                       |                    |             |                                |

225

Yes

Database(s)

EDR ID Number **EPA ID Number** 

S100117626

| Resource Affect  | ed - Soil :   | Yes                                  |  |   |
|--|---|--------------------------------------|--|---|
| Resource Affect  | ed - Air :  | No                                   |  |   |
| Resource Affect  | ed - Indoor Air :   | No                                   |  |   |
| Resource Affect  | ed - Groundwater :  | No                                   |  |   |
| Resource Affect  | ed - Surface Water :  | No                                   |  |   |
| Resource Affect  | ed - Drinking Wtr :   | No                                   |  |   |
| Resource Affect  | ed - Sewer :  | No                                   |  |   |
| Resource Affect  | ed - Impervious Surface :   | No                                   |  |   |
| Resource Affect  | ed - Subway :   | No                                   |  |   |
| Resource Affect  | ed - Utility :  | No                                   |  |   |
| Resource Affect  | ed - Impervious Surface :   | No                                   |  |   |
| Oxygenate :  |   | False                                |  |   |
| Tank Test  |   |                                      |  |   |
| Spill Tank Test :  | Not reported  |                                      |  |   |
| Site ID :  | Not reported  |                                      |  |   |
| Tank Number :  | Not reported  |                                      |  |   |
| Tank Size :  | Not reported  |                                      |  |   |
| Test Method :  | Not reported  |                                      |  |   |
| Leak Rate :  | Not reported  |                                      |  |   |
| Gross Fail :   | Not reported  |                                      |  |   |
| Modified By :  | Not reported  |                                      |  |   |
| Last Modified :  | Not reported  |                                      |  |   |
| Test Method :  | Not reported  |                                      |  |   |
| DEC Remarks :  | Prior to Sept, 2004 data t  | ranslation this s                    | bill Lead DEC Field  | was "MJH"   |
|  |   |                                      |  | D WITH CLEANUP. 05/04/89:   |
|  | LETTER SENT REQUES  | STING REPORT                         | ON CLEANUP AND   | DISPOSAL RECIEPTS.  |
|  | 08/22/89: DISPOSAL RE   | CIEPTS SUBMI                         | TTED   |   |
|  | 00/22/00. DIOI 00/12 ITE  |                                      |  |   |
|  | FROM CLEANUP CONT   | RACTOR NO FL                         |  | EEDED BY SPILL UNIT.  |
| Remark:  |   | RACTOR NO FL                         |  |   |
|  | FROM CLEANUP CONT   | RACTOR NO FL                         |  |   |
| HIST LTANKS:   | FROM CLEANUP CONT<br>LEAK FROM FUEL TAN   | RACTOR NO FL                         | REPORTEDLY WE  | ENT UNDER TRAILER   |
| HIST LTANKS:<br>Spill Number:  | FROM CLEANUP CONT<br>LEAK FROM FUEL TAN<br>8809760  | RACTOR NO FL                         | REPORTEDLY WE  | 9   |
| HIST LTANKS:<br>Spill Number:<br>Spill Date:   | FROM CLEANUP CONT<br>LEAK FROM FUEL TAN<br>8809760<br>03/10/1989 12:00  | RACTOR NO FL                         | REPORTEDLY WE<br>Region of Spill:<br>Reported to Dept:   | 9<br>03/17/89 16:35   |
| HIST LTANKS:<br>Spill Number:<br>Spill Date:<br>Water Affected:  | FROM CLEANUP CONT<br>LEAK FROM FUEL TAN<br>8809760<br>03/10/1989 12:00<br>Not reported  | RACTOR NO FL                         | REPORTEDLY WE  | 9   |
| HIST LTANKS:<br>Spill Number:<br>Spill Date:<br>Water Affected:<br>Resource Affectd  | FROM CLEANUP CONT<br>LEAK FROM FUEL TAN<br>8809760<br>03/10/1989 12:00<br>Not reported<br>: On Land   | RACTOR NO FL                         | REPORTEDLY WE<br>Region of Spill:<br>Reported to Dept:   | 9<br>03/17/89 16:35   |
| HIST LTANKS:<br>Spill Number:<br>Spill Date:<br>Water Affected:<br>Resource Affectd<br>Spill Cause:  | FROM CLEANUP CONT<br>LEAK FROM FUEL TAN<br>8809760<br>03/10/1989 12:00<br>Not reported<br>: On Land<br>Tank Failure   | RACTOR NO FL                         | REPORTEDLY WE<br>Region of Spill:<br>Reported to Dept:<br>Spill Source:  | 9<br>03/17/89 16:35<br>Private Dwelling   |
| HIST LTANKS:<br>Spill Number:<br>Spill Date:<br>Water Affected:<br>Resource Affectd<br>Spill Cause:<br>Facility Contact:   | FROM CLEANUP CONT<br>LEAK FROM FUEL TAN<br>8809760<br>03/10/1989 12:00<br>Not reported<br>: On Land<br>Tank Failure<br>Not reported   | RACTOR NO FL                         | REPORTEDLY WE<br>Region of Spill:<br>Reported to Dept:<br>Spill Source:<br>Facility Tele:  | 9<br>03/17/89 16:35<br>Private Dwelling<br>(716) 298-5226   |
| HIST LTANKS:<br>Spill Number:<br>Spill Date:<br>Water Affected:<br>Resource Affectd<br>Spill Cause:<br>Facility Contact:<br>Investigator:  | FROM CLEANUP CONT<br>LEAK FROM FUEL TAN<br>8809760<br>03/10/1989 12:00<br>Not reported<br>: On Land<br>Tank Failure<br>Not reported<br>MJH  | RACTOR NO FL                         | REPORTEDLY WE<br>Region of Spill:<br>Reported to Dept:<br>Spill Source:<br>Facility Tele:<br>SWIS:   | 9<br>03/17/89 16:35<br>Private Dwelling<br>(716) 298-5226<br>29   |
| HIST LTANKS:<br>Spill Number:<br>Spill Date:<br>Water Affected:<br>Resource Affectd<br>Spill Cause:<br>Facility Contact:<br>Investigator:<br>Caller Name:  | FROM CLEANUP CONT<br>LEAK FROM FUEL TAN<br>8809760<br>03/10/1989 12:00<br>Not reported<br>: On Land<br>Tank Failure<br>Not reported<br>MJH<br>Not reported  | RACTOR NO FL                         | Region of Spill:<br>Reported to Dept:<br>Spill Source:<br>Facility Tele:<br>SWIS:<br>Caller Agency:  | 9<br>03/17/89 16:35<br>Private Dwelling<br>(716) 298-5226<br>29<br>Not reported   |
| HIST LTANKS:<br>Spill Number:<br>Spill Date:<br>Water Affected:<br>Resource Affectd<br>Spill Cause:<br>Facility Contact:<br>Investigator:<br>Caller Name:<br>Caller Phone:   | FROM CLEANUP CONT<br>LEAK FROM FUEL TAN<br>8809760<br>03/10/1989 12:00<br>Not reported<br>: On Land<br>Tank Failure<br>Not reported<br>MJH<br>Not reported<br>Not reported<br>Not reported  | RACTOR NO FL                         | Region of Spill:<br>Reported to Dept:<br>Spill Source:<br>Facility Tele:<br>SWIS:<br>Caller Agency:<br>Caller Extension:   | 9<br>03/17/89 16:35<br>Private Dwelling<br>(716) 298-5226<br>29<br>Not reported<br>Not reported   |
| HIST LTANKS:<br>Spill Number:<br>Spill Date:<br>Water Affected:<br>Resource Affectd<br>Spill Cause:<br>Facility Contact:<br>Investigator:<br>Caller Name:<br>Caller Phone:<br>Notifier Name:   | FROM CLEANUP CONT<br>LEAK FROM FUEL TAN<br>8809760<br>03/10/1989 12:00<br>Not reported<br>: On Land<br>Tank Failure<br>Not reported<br>MJH<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported  | RACTOR NO FL                         | Region of Spill:<br>Reported to Dept:<br>Spill Source:<br>Facility Tele:<br>SWIS:<br>Caller Agency:<br>Caller Extension:<br>Notifier Agency:   | 9<br>03/17/89 16:35<br>Private Dwelling<br>(716) 298-5226<br>29<br>Not reported<br>Not reported<br>Not reported<br>Not reported   |
| HIST LTANKS:<br>Spill Number:<br>Spill Date:<br>Water Affected:<br>Resource Affectd<br>Spill Cause:<br>Facility Contact:<br>Investigator:<br>Caller Name:<br>Caller Phone:<br>Notifier Name:<br>Notifier Phone:  | FROM CLEANUP CONT<br>LEAK FROM FUEL TAN<br>8809760<br>03/10/1989 12:00<br>Not reported<br>: On Land<br>Tank Failure<br>Not reported<br>MJH<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported  | RACTOR NO FL                         | Region of Spill:<br>Reported to Dept:<br>Spill Source:<br>Facility Tele:<br>SWIS:<br>Caller Agency:<br>Caller Extension:<br>Notifier Agency:<br>Notifier Extension:  | 9<br>03/17/89 16:35<br>Private Dwelling<br>(716) 298-5226<br>29<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported |
| HIST LTANKS:<br>Spill Number:<br>Spill Date:<br>Water Affected:<br>Resource Affectd<br>Spill Cause:<br>Facility Contact:<br>Investigator:<br>Caller Name:<br>Caller Phone:<br>Notifier Name:<br>Notifier Phone:<br>Spiller Contact:  | FROM CLEANUP CONT<br>LEAK FROM FUEL TAN<br>8809760<br>03/10/1989 12:00<br>Not reported<br>: On Land<br>Tank Failure<br>Not reported<br>MJH<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported  | RACTOR NO FL                         | Region of Spill:<br>Reported to Dept:<br>Spill Source:<br>Facility Tele:<br>SWIS:<br>Caller Agency:<br>Caller Extension:<br>Notifier Agency:   | 9<br>03/17/89 16:35<br>Private Dwelling<br>(716) 298-5226<br>29<br>Not reported<br>Not reported<br>Not reported<br>Not reported   |
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| HIST LTANKS:<br>Spill Number:<br>Spill Date:<br>Water Affected:<br>Resource Affected<br>Spill Cause:<br>Facility Contact:<br>Investigator:<br>Caller Name:<br>Caller Phone:<br>Notifier Phone:<br>Notifier Phone:<br>Spiller Contact:<br>Spiller:<br>Spiller Address:  | FROM CLEANUP CONT<br>LEAK FROM FUEL TAN<br>8809760<br>03/10/1989 12:00<br>Not reported<br>On Land<br>Tank Failure<br>Not reported<br>Not Reported | RACTOR NO FU<br>K FOR TRAILER        | Region of Spill:<br>Reported to Dept:<br>Spill Source:<br>Facility Tele:<br>SWIS:<br>Caller Agency:<br>Caller Extension:<br>Notifier Agency:<br>Notifier Extension:  | 9<br>03/17/89 16:35<br>Private Dwelling<br>(716) 298-5226<br>29<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported |
| HIST LTANKS:<br>Spill Number:<br>Spill Date:<br>Water Affected:<br>Resource Affectd<br>Spill Cause:<br>Facility Contact:<br>Investigator:<br>Caller Name:<br>Caller Phone:<br>Notifier Name:<br>Notifier Phone:<br>Spiller Contact:<br>Spiller Contact:<br>Spiller Address:<br>Spill Class:  | FROM CLEANUP CONT<br>LEAK FROM FUEL TAN<br>8809760<br>03/10/1989 12:00<br>Not reported<br>On Land<br>Tank Failure<br>Not reported<br>MJH<br>Not reported<br>Not reported<br>NARIA HEALY<br>526-C CAYUGA VILLAG<br>NIAGARA FALLS, NY 14  | RACTOR NO FU<br>K FOR TRAILER        | Region of Spill:<br>Reported to Dept:<br>Spill Source:<br>Facility Tele:<br>SWIS:<br>Caller Agency:<br>Caller Extension:<br>Notifier Agency:<br>Notifier Extension:  | 9<br>03/17/89 16:35<br>Private Dwelling<br>(716) 298-5226<br>29<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported |
| HIST LTANKS:<br>Spill Number:<br>Spill Date:<br>Water Affected:<br>Resource Affectd<br>Spill Cause:<br>Facility Contact:<br>Investigator:<br>Caller Name:<br>Caller Phone:<br>Notifier Phone:<br>Notifier Phone:<br>Spiller Contact:<br>Spiller:<br>Spiller Address:<br>Spill Class:<br>Spill Closed Dt:   | FROM CLEANUP CONT<br>LEAK FROM FUEL TAN<br>8809760<br>03/10/1989 12:00<br>Not reported<br>On Land<br>Tank Failure<br>Not reported<br>Not Reported | RACTOR NO FU<br>K FOR TRAILER        | REPORTEDLY WE<br>Region of Spill:<br>Reported to Dept:<br>Spill Source:<br>Facility Tele:<br>SWIS:<br>Caller Agency:<br>Caller Agency:<br>Caller Extension:<br>Notifier Agency:<br>Notifier Extension:<br>Spiller Phone: | 9<br>03/17/89 16:35<br>Private Dwelling<br>(716) 298-5226<br>29<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported |
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| HIST LTANKS:<br>Spill Number:<br>Spill Date:<br>Water Affected:<br>Resource Affectd<br>Spill Cause:<br>Facility Contact:<br>Investigator:<br>Caller Name:<br>Caller Phone:<br>Notifier Name:<br>Notifier Phone:<br>Spiller Contact:<br>Spiller Contact:<br>Spiller Address:<br>Spill Class:<br>Spill Class:<br>Spill Closed Dt:<br>Spill Notifier:<br>Cleanup Ceased:  | FROM CLEANUP CONT<br>LEAK FROM FUEL TAN<br>8809760<br>03/10/1989 12:00<br>Not reported<br>On Land<br>Tank Failure<br>Not reported<br>MJH<br>Not reported<br>Not reported<br>MARIA HEALY<br>526-C CAYUGA VILLAG<br>NIAGARA FALLS, NY 14<br>Not reported<br>08/22/89<br>Other<br>08/22/89   | RACTOR NO FU<br>K FOR TRAILER        | REPORTEDLY WE<br>Region of Spill:<br>Reported to Dept:<br>Spill Source:<br>Facility Tele:<br>SWIS:<br>Caller Agency:<br>Caller Agency:<br>Caller Extension:<br>Notifier Agency:<br>Notifier Extension:<br>Spiller Phone: | 9<br>03/17/89 16:35<br>Private Dwelling<br>(716) 298-5226<br>29<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported |
| HIST LTANKS:<br>Spill Number:<br>Spill Date:<br>Water Affected:<br>Resource Affectd<br>Spill Cause:<br>Facility Contact:<br>Investigator:<br>Caller Name:<br>Caller Phone:<br>Notifier Name:<br>Notifier Phone:<br>Spiller Contact:<br>Spiller Contact:<br>Spiller:<br>Spiller Address:<br>Spill Class:<br>Spill Class:<br>Spill Closed Dt:<br>Spill Notifier:<br>Cleanup Ceased:<br>Last Inspection:                    | FROM CLEANUP CONT<br>LEAK FROM FUEL TAN<br>8809760<br>03/10/1989 12:00<br>Not reported<br>On Land<br>Tank Failure<br>Not reported<br>MJH<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>MARIA HEALY<br>526-C CAYUGA VILLAG<br>NIAGARA FALLS, NY 14<br>Not reported<br>08/22/89<br>Other<br>08/22/89<br>03/20/89   | RACTOR NO FU<br>K FOR TRAILER        | REPORTEDLY WE<br>Region of Spill:<br>Reported to Dept:<br>Spill Source:<br>Facility Tele:<br>SWIS:<br>Caller Agency:<br>Caller Agency:<br>Caller Extension:<br>Notifier Agency:<br>Notifier Extension:<br>Spiller Phone: | 9<br>03/17/89 16:35<br>Private Dwelling<br>(716) 298-5226<br>29<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported |
| HIST LTANKS:<br>Spill Number:<br>Spill Date:<br>Water Affected:<br>Resource Affectd<br>Spill Cause:<br>Facility Contact:<br>Investigator:<br>Caller Name:<br>Caller Phone:<br>Notifier Name:<br>Notifier Phone:<br>Spiller Contact:<br>Spiller Contact:<br>Spiller:<br>Spiller Address:<br>Spill Class:<br>Spill Class:<br>Spill Closed Dt:<br>Spill Notifier:<br>Cleanup Ceased:<br>Last Inspection:<br>Cleanup Meets S | FROM CLEANUP CONT<br>LEAK FROM FUEL TAN<br>8809760<br>03/10/1989 12:00<br>Not reported<br>On Land<br>Tank Failure<br>Not reported<br>MJH<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>MARIA HEALY<br>526-C CAYUGA VILLAG<br>NIAGARA FALLS, NY 14<br>Not reported<br>08/22/89<br>Other<br>08/22/89<br>03/20/89<br>tandard: True  | RACTOR NO FI<br>K FOR TRAILER<br>504 | REPORTEDLY WE<br>Region of Spill:<br>Reported to Dept:<br>Spill Source:<br>Facility Tele:<br>SWIS:<br>Caller Agency:<br>Caller Agency:<br>Caller Extension:<br>Notifier Agency:<br>Notifier Extension:<br>Spiller Phone: | 9<br>03/17/89 16:35<br>Private Dwelling<br>(716) 298-5226<br>29<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported |
| HIST LTANKS:<br>Spill Number:<br>Spill Date:<br>Water Affected:<br>Resource Affectd<br>Spill Cause:<br>Facility Contact:<br>Investigator:<br>Caller Name:<br>Caller Phone:<br>Notifier Name:<br>Notifier Phone:<br>Spiller Contact:<br>Spiller Contact:<br>Spiller:<br>Spiller Address:<br>Spill Class:<br>Spill Class:<br>Spill Closed Dt:<br>Spill Notifier:<br>Cleanup Ceased:<br>Last Inspection:                    | FROM CLEANUP CONT<br>LEAK FROM FUEL TAN<br>8809760<br>03/10/1989 12:00<br>Not reported<br>On Land<br>Tank Failure<br>Not reported<br>MJH<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>MARIA HEALY<br>526-C CAYUGA VILLAG<br>NIAGARA FALLS, NY 14<br>Not reported<br>08/22/89<br>Other<br>08/22/89<br>03/20/89<br>tandard: True  | RACTOR NO FU<br>K FOR TRAILER        | REPORTEDLY WE<br>Region of Spill:<br>Reported to Dept:<br>Spill Source:<br>Facility Tele:<br>SWIS:<br>Caller Agency:<br>Caller Agency:<br>Caller Extension:<br>Notifier Agency:<br>Notifier Extension:<br>Spiller Phone: | 9<br>03/17/89 16:35<br>Private Dwelling<br>(716) 298-5226<br>29<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>Not reported |

### CAYUGA VILL. MOBILE PARK (Continued)

Not reported

Petroleum

250.00

G

Case No. :

Quantity :

Units :

Material FA :

Recovered :

Resource Affected - Soil :

| lap ID<br>lirection                  | MAP FINDINGS  |                       |                   |
|--------------------------------------|---|-----------------------|-------------------|
| istance<br>istance (ft.)<br>levation | Site  | Database(s)           | EDR ID Number     |
| (                                    | CAYUGA VILL. MOBILE PARK (Continued)  |                       | S100117626        |
|                                      | Spiller Cleanup Date:       / /         Enforcement Date:       / /         Investigation Complete:       / /         UST Involvement:       False         Spill Record Last Update:       09/05/89         Is Updated:       False         Corrective Action Plan Submitted:       / /         Date Spill Entered In Computer Data File:       03/21/89         Date Region Sent Summary to Central Office:       /         Tank Test:       PBS Number:       Not reported         Tank Number:       Not reported         Test Method:       Not reported         Capacity of Failed Tank:       Not reported         Gross Leak Rate:       Not reported         Material:       Material Class Type:       1 |                       |                   |
|                                      | Quantity Spilled:250Units:GallonsUnknown Qty Spilled:250Quantity Recovered:225Unknown Qty Recovered:FalseMaterial:#2 FUEL OIL   |                       |                   |
|                                      | Class Type:PetroleumChem Abstract Service Number:#2 FUEL OILLast Date:12/07/1994Num Times Material Entry In File:24464DEC Remarks:03/21/89: SPILLERS INSURANCE COMPANY TO PROCEED WITH  | H CLEANUP. 05/0       | 04/89:            |
|                                      | LETTER SENT REQUESTING REPORT ON CLEANUP AND DISP<br>9: DISPOSAL RECIEPTS SUBMITTED FROM CLEANUP CONTRA<br>NEEDED BY SPILL UNIT.<br>Spill Cause: LEAK FROM FUEL TANK FOR TRAILER REPORTEDLY WENT U  | ACTOR NO FURTH        |                   |
| outh 9                               | RAINBOW TIRE<br>0340 NIAGARA FALLS BLVD   | LTANKS<br>HIST LTANKS | S102619449<br>N/A |

#### 18 RAINBOW TIRE

#### 9340 NIAGARA FALLS BLVD NIAGARA FALLS, NY South 1/4-1/2

# 2053 ft.

| Relative:<br>Lower | LTANKS:<br>Spill Number:<br>Facility ID:  | 9516572<br>9516572  | Region of Spill:<br>DER Facility ID:  | 9<br>111677   |
|--------------------|---|---|---|---|
| Actual:<br>572 ft. | Site ID:<br>Spill Date:<br>Referred To:<br>Water Affected:  | 129557<br>03/25/96<br>NIAGARA CNTY HEALTH DEPT<br>Not reported  | CID:<br>Reported to Dept:<br>DEC Region:<br>Spill Source:   | 29<br>03/25/96<br>9<br>GASOLINE STATION   |
|                    | Spill Cause:<br>Facility Address 2<br>Investigator:<br>Caller Name:<br>Caller Phone:<br>Notifier Name:<br>Notifier Phone:<br>Spiller Contact:<br>Spiller Company:<br>Spiller Address: | SACALAND<br>ANONYMOUS<br>Not reported<br>Not reported<br>Not reported<br>Not reported<br>RAINBOW TIRE<br>9340 NIAGARA FALLS BLVD<br>NIAGARA FALLS, NY | Facility Tele:<br>SWIS:<br>Caller Agency:<br>Caller Extension:<br>Notifier Agency:<br>Notifier Extension:<br>Spiller Phone: | Not reported<br>3211<br>CITIZEN<br>Not reported<br>Not reported<br>Not reported<br>Not reported |
|                    | Spiller County:   | 001   |   |   |

EDR ID Number Database(s)

EPA ID Number

# **RAINBOW TIRE (Continued)**

S102619449

| 11 | BOW TIRE (Con                        | tinuea)     |                   |  | 510261944 |
|----|--------------------------------------|-------------|-------------------|--|-----------|
|    | Spill Class:                         | Possible re | elease with minim | nal potential for fire or hazard or Known    |           |
|    |                                      | release wit | th no damage. D   | EC Response. Willing Responsible Party.      |           |
|    |                                      |             | action taken.     |  |           |
|    | Spill Closed Dt:                     | 07/22/96    |                   |  |           |
|    | Spill Notifier:                      | CITIZEN     |                   |  |           |
|    | Cleanup Ceased:                      | //          |                   |  |           |
|    | Last Inspection:                     | 03/25/96    |                   |  |           |
|    | Cleanup Meets St                     | andard:     | True              |  |           |
|    | Recommended Pe                       | enalty:     | Penalty Not Rec   | commended                                    |           |
|    | UST Trust:                           | True        |                   |  |           |
|    | Spill Record Last                    | •           | 11/04/98          |  |           |
|    | Date Spill Entered                   |             |                   | 03/25/96                                     |           |
|    | Remediation Phas                     |             | 0                 |  |           |
|    | Program Number:                      |             | 9516572           |  |           |
|    | Regional Use:                        |             | Not reported      |  |           |
|    | Material                             |             |                   |  |           |
|    | Material ID :                        |             | 353084            |  |           |
|    | Site ID :                            |             | 129557            |  |           |
|    | Operable Unit :                      |             | 01                |  |           |
|    | Operable Unit ID                     | ):          | 1031063           |  |           |
|    | Material Code :                      |             | 0009              |  |           |
|    | Material Name :                      |             | Gasoline          |  |           |
|    | Case No.                             |             | Not reported      |  |           |
|    | Material FA :                        |             | Petroleum         |  |           |
|    | Quantity :                           |             | 0.00              |  |           |
|    | Units :                              |             | G                 | NI-  |           |
|    | Recovered :                          |             |                   | No   |           |
|    | Resource Affecte                     |             |                   | No   |           |
|    | Resource Affecte                     |             | ۸:                | No   |           |
|    | Resource Affecte<br>Resource Affecte |             |                   | No<br>Yes                                    |           |
|    | Resource Affecte                     |             |                   | No   |           |
|    | Resource Affecte                     |             |                   | No   |           |
|    | Resource Affecte                     |             | 0                 | No   |           |
|    | Resource Affecte                     |             |                   | No   |           |
|    | Resource Affecte                     | •           |                   | No   |           |
|    | Resource Affecte                     |             | у.                | No   |           |
|    | Resource Affecte                     | •           | ious Surface      | No   |           |
|    | Oxygenate :                          |             |                   | False  |           |
|    | Tank Test                            |             |                   |  |           |
|    | Spill Tank Test :                    |             | Not reported      |  |           |
|    | Site ID :                            |             | Not reported      |  |           |
|    | Tank Number :                        |             | Not reported      |  |           |
|    | Tank Size :                          |             | Not reported      |  |           |
|    | Test Method :                        |             | Not reported      |  |           |
|    | Leak Rate :                          |             | Not reported      |  |           |
|    | Gross Fail :                         |             | Not reported      |  |           |
|    | Modified By :                        |             | Not reported      |  |           |
|    | Last Modified :                      |             | Not reported      |  |           |
|    | Test Method :                        |             | Not reported      |  |           |
|    | DEC Remarks :                        | Prior to Se | pt, 2004 data tra | nslation this spill Lead DEC Field was       |           |
|    |                                      | "SAC-NCF    | ID" 3/23/96:SAC   | TELECON BOB BUZZELLI,NCHD-BOB WILL FOLLOW UP | '-        |
|    |                                      | 7/22/96:RE  | ECEIVED NCHD      | INSPECTION REPORT FROM BOB BUZZELLI, EXCAVAT | ION       |
|    |                                      |             |                   | E RESULTS ARE BELOW GU                       |           |
|    |                                      |             |                   | NTAMINATION OBSERVED THEREFORE NO DISPOSAL I | RECEIPTS  |
|    |                                      |             |                   | ER ACTION, SITE IS CLOSED.                   |           |
|    | Remark:                              | citizen rep | orted tank remov  | al with contaminated soil & gasoline odor    |           |
|    |                                      |             |                   |  |           |
|    |                                      |             |                   |  |           |

Database(s)

EDR ID Number **EPA ID Number** 

#### S102619449

**RAINBOW TIRE (Continued)** behind building HIST LTANKS: Spill Number: 9516572 Region of Spill: 9 Spill Date: 03/23/1996 09:00 Reported to Dept: 03/25/96 11:36 Water Affected: Not reported Spill Source: Gas Station Resource Affectd: Groundwater Tank Failure Spill Cause: Facility Contact: Not reported Facility Tele: Not reported Investigator: SAC-NCHD SWIS: 29 Caller Name: Not reported Caller Agency: Not reported Caller Phone: Not reported Caller Extension: Not reported Not reported Notifier Name: Not reported Notifier Agency: Notifier Phone: Not reported Notifier Extension: Not reported Spiller Contact: Not reported Spiller Phone: Not reported RAINBOW TIRE Spiller: Spiller Address: 9340 NIAGARA FALLS BLVD NIAGARA FALLS, NY Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken. Spill Closed Dt: 07/22/96 Spill Notifier: Citizen PBS Number: Not reported Cleanup Ceased: / / Last Inspection: 03/25/96 Cleanup Meets Standard: True Recommended Penalty: Penalty Not Recommended Spiller Cleanup Date: 11 Enforcement Date: 11 Investigation Complete: 11 UST Involvement: True 11/04/98 Spill Record Last Update: Is Updated: False Corrective Action Plan Submitted: 11 03/25/96 Date Spill Entered In Computer Data File: Date Region Sent Summary to Central Office: / / Tank Test: PBS Number: Not reported Tank Number: Not reported Test Method: Not reported Capacity of Failed Tank: Not reported Leak Rate Failed Tank: Not reported Gross Leak Rate: Not reported Material: Material Class Type: 1 Quantity Spilled: 0 Units: Gallons Unknown Qty Spilled: No Quantity Recovered: 0 Unknown Qty Recovered: False Material: GASOLINE Class Type: Petroleum Chem Abstract Service Number: GASOLINE Last Date: 09/29/1994 Num Times Material Entry In File: 21329 DEC Remarks: 3/23/96:SAC TELECON BOB BUZZELLI,NCHD-BOB WILL FOLLOW UP. 7/22/96:RECEIV ED NCHD INSPECTION REPORT FROM BOB BUZZELLI, EXCAVATION CONFIRMATORY SAM

PLE RESULTS ARE BELOW GUIDANCE VALUES, NO CONTAMINATION OBSERVED THEREFO

EDR ID Number EPA ID Number

Database(s)

### RAINBOW TIRE (Continued)

S102619449

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Spill Cause:
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RE NO DISPOSAL RECEIPTS NECESSARY. NO FURTHER ACTION, SITE IS CLOSED. citi en reported tank removal with contaminated soil gasoline odor behin d building

#### MARIA HEALEY (HOME) LTANKS S100120667 19 SSW 9200 NIAGARA FALLS BLVD HIST LTANKS N/A 1/4-1/2 NIAGARA, NY 2309 ft. LTANKS: **Relative:** Spill Number: 9010878 Region of Spill: 9 Lower Facility ID: 9010878 **DER Facility ID:** 149191 Actual: Site ID: 177549 CID: Not reported 572 ft. Spill Date: 01/11/91 Reported to Dept: 01/11/91 Referred To: Not reported DEC Region: 9 Water Affected: Not reported Spill Source: PRIVATE DWELLING TANK FAILURE Spill Cause: Facility Address 2:Not reported Facility Tele: (716) 298-5861 Investigator: SORGI SWIS: 3230 DAVID EISENBART Caller Agency: CAYUGA VILLAGE MNGR. Caller Name: (716) 297-1770 Not reported Caller Phone: Caller Extension: Notifier Agency: Notifier Name: Not reported Not reported Notifier Phone: Not reported Notifier Extension: Not reported Spiller Contact: Not reported Spiller Phone: Not reported Spiller: Not reported Spiller Company: MARIA HEALEY Spiller Address: 633 C STREET NIAGARA FALLS, NY Spiller County: 001 Spill Class: Not reported Spill Closed Dt: 02/22/91 Spill Notifier: AFFECTED PERSONS Cleanup Ceased: 02/22/91 Last Inspection: 01/16/91 Cleanup Meets Standard: True Recommended Penalty: Penalty Not Recommended UST Trust: False Spill Record Last Update: 02/26/91 Date Spill Entered In Computer Data File: 01/11/91 **Remediation Phase:** 0 9010878 Program Number: Regional Use: Not reported Material Material ID : 430989 Site ID : 177549 Operable Unit : 01 Operable Unit ID : 947984 Material Code : 0001 Material Name : #2 Fuel Oil Case No. : Not reported Material FA : Petroleum Quantity : 250.00 Units : G Recovered : No Resource Affected - Soil : Yes Resource Affected - Air : No Resource Affected - Indoor Air : No Resource Affected - Groundwater : No Resource Affected - Surface Water : No

| Map ID<br>Direction                    |                                     |   | MAP FINDINGS         |                    |           |                |                                |
|--|-------------------------------------|---|----------------------|--------------------|-----------|----------------|--------------------------------|
| Distance<br>Distance (ft.<br>Elevation | )<br>Site                           |   |                      |                    |           | Database(s)    | EDR ID Number<br>EPA ID Number |
|  | MARIA HEALEY (HON                   | IE) (Continued)                             |                      |                    |           |                | S100120667                     |
|  | Resource Affect                     | ed - Drinking Wtr :                         | No                   |                    |           |                |                                |
|  | Resource Affect                     | ed - Sewer :                                | No                   |                    |           |                |                                |
|  |                                     | ed - Impervious Surface :                   | No                   |                    |           |                |                                |
|  | Resource Affect                     | -   | No                   |                    |           |                |                                |
|  | Resource Affect                     | ed - Uniny :<br>ed - Impervious Surface :   | No<br>No             |                    |           |                |                                |
|  | Oxygenate :                         |   | False                |                    |           |                |                                |
|  | Tank Test                           |   |                      |                    |           |                |                                |
|  | Spill Tank Test :                   |   |                      |                    |           |                |                                |
|  | Site ID :                           | Not reported                                |                      |                    |           |                |                                |
|  | Tank Number :                       | Not reported                                |                      |                    |           |                |                                |
|  | Tank Size :<br>Test Method :        | Not reported<br>Not reported                |                      |                    |           |                |                                |
|  | Leak Rate :                         | Not reported                                |                      |                    |           |                |                                |
|  | Gross Fail :                        | Not reported                                |                      |                    |           |                |                                |
|  | Modified By :                       | Not reported                                |                      |                    |           |                |                                |
|  | Last Modified :                     | Not reported                                |                      |                    |           |                |                                |
|  | Test Method :<br>DEC Remarks :      | Not reported<br>Prior to Sept, 2004 data tr | anglation this shill | Lead DEC Field     | wae "MIS  | 2"             |                                |
|  | DEC Remarks.                        | 01/11/91: MJS CONTACT                       |                      |                    |           |                | THIS                           |
|  |                                     | AFTERNOON. REPRESE                          |                      |                    |           |                |                                |
|  |                                     | 01/11/91: MJS TELECON                       | WITH RUDY MAI        | DA (               |           |                |                                |
|  |                                     | NCHD). MOBILE HOME V                        |                      |                    |           |                |                                |
|  |                                     | UNDERNEATH. F/O SEE                         |                      |                    |           |                |                                |
|  |                                     | MJS SITE INSPECTION W                       |                      | · ,                | OVAL OF   | PADS IS ONG    | OING.                          |
|  |                                     | TIC AT MAINTENENCE G                        |                      |                    |           | I WILL BE TAKE | EN TO                          |
|  |                                     | MODERN. 02/15/91: MJ                        |                      |                    |           |                |                                |
|  |                                     | AND RESULTS HAVE CO                         | OME BACK. MR EI      | SENBART WAIT       | ING FOR   | R DATE FROM I  | MODERN.                        |
|  |                                     | BENZENE - BQL. 02/20/                       |                      |                    |           |                |                                |
|  |                                     | D REPORT FROM NCHD                          |                      |                    |           |                |                                |
|  |                                     | RECEIVED INCIDENT RE<br>EISENBART.          | EPORT, LAD RESI      | ULIS, AND DISP     | OSAL RI   | ECEIPTS FROM   | DAVE                           |
|  | Remark:                             | A/G 275 GAL F/O TANK 1                      | TIPPED OVER. SI      | PILLED ON GRO      |           | OUND TRAILE    | २                              |
|  |                                     | HOME. MRS HEALEY CO                         |                      |                    |           |                |                                |
|  | HIST LTANKS:                        |   |                      |                    |           |                |                                |
|  | Spill Number:                       | 9010878                                     | R                    | egion of Spill:    | 9         |                |                                |
|  | Spill Date:                         | 01/05/1991 12:00                            |                      | eported to Dept:   | 01/11/9   | 1 12:06        |                                |
|  | Water Affected:                     | Not reported                                | S                    | pill Source:       | Private I | Dwelling       |                                |
|  | Resource Affectd                    |   |                      |                    |           |                |                                |
|  | Spill Cause:<br>Facility Contact:   | Tank Failure<br>Not reported                | E                    | acility Tele:      | (716) 29  | 9 5961         |                                |
|  | Investigator:                       | MJS   |                      | WIS:               | 29        | 0-001          |                                |
|  | Caller Name:                        | Not reported                                | -                    | aller Agency:      | Not repo  | orted          |                                |
|  | Caller Phone:                       | Not reported                                |                      | aller Extension:   | Not repo  |                |                                |
|  | Notifier Name:                      | Not reported                                |                      | otifier Agency:    | Not repo  |                |                                |
|  | Notifier Phone:                     | Not reported                                |                      | otifier Extension: |           |                |                                |
|  | Spiller Contact:                    | Not reported<br>MARIA HEALEY                | S                    | piller Phone:      | Not repo  | опеа           |                                |
|  | Spiller:<br>Spiller Address:        | 633 C STREET                                |                      |                    |           |                |                                |
|  |                                     | NIAGARA FALLS, NY                           |                      |                    |           |                |                                |
|  | Spill Class:                        | Not reported                                |                      |                    |           |                |                                |
|  | Spill Closed Dt:                    | 02/22/91                                    |                      |                    |           |                |                                |
|  | Spill Notifier:                     | Affected Persons                            | P                    | BS Number:         | Not repo  | orted          |                                |
|  | Cleanup Ceased:                     |   |                      |                    |           |                |                                |
|  | Last Inspection:<br>Cleanup Meets S |   |                      |                    |           |                |                                |
|  |                                     |   |                      |                    |           |                |                                |

| Map ID       |      |
|--------------|------|
| Direction    |      |
| Distance     |      |
| Distance (ft | .)   |
| Elevation    | Site |

Database(s)

EDR ID Number EPA ID Number

S100120667

# MARIA HEALEY (HOME) (Continued)

| Recommended Penalty:<br>Spiller Cleanup Date:<br>Enforcement Date:<br>Investigation Complete:<br>UST Involvement:<br>Spill Record Last Update:<br>Is Updated:<br>Corrective Action Plan Subb<br>Date Spill Entered In Comp<br>Date Region Sent Summary<br>Tank Test: | uter Data File: 01/11/91   |
|--|--|
| PBS Number:  | Not reported   |
| Tank Number:   | Not reported   |
| Test Method:   | Not reported   |
| Capacity of Failed Tank:   | Not reported   |
| Leak Rate Failed Tank:   | Not reported   |
| Gross Leak Rate:   | Not reported   |
| Material:  |  |
| Material Class Type:   | 1<br>250   |
| Quantity Spilled:<br>Units:  | Gallons  |
| Unknown Qty Spilled:   | 250  |
| Quantity Recovered:  | 0  |
| Unknown Qty Recovered  | -  |
| Material:  | #2 FUEL OIL  |
| Class Type:  | Petroleum  |
| Chem Abstract Service N  | lumber: #2 FUEL OIL  |
| Last Date:   | 12/07/1994   |
| Num Times Material Entr  |  |
| AFTERN<br>MJS TEL<br>GET AT<br>CRACKS<br>PADS IS<br>NCE GA<br>MJS TEL<br>BACK. M<br>: MJS RE<br>1: MJS R   | MJS CONTACTED NCHD. THEY WILL SEND INSPECTOR OUT TO SITE THIS<br>OON. REPRESENTATIVE OF INSURANCE COMPANY TO BE ON SITE. 01/11/91:<br>ECON WITH RUDY MAIDA NCHD). MOBILE HOME WILL HAVE TO BE MOVED TO<br>CONCRETE PADS UNDERNEATH. F/O SEEPED INTO GROUND THRU JOINTS AND<br>. 01/16/91: MJS SITE INSPECTION WITH RUDY MAIDA NCHD). REMOVAL OF<br>ONGOING. ALL CONTAMINATION WILL BE STAGED ON PLASTIC AT MAINTENE<br>RAGA. TENTATIVELY CONTAMINATION WILL BE TAKEN TO MODERN.02/15/91:<br>ECON WITH DAVE EISENBART. TESTING WAS DONE AND RESULTS HAVE COME<br>R EISENBART WAITING FOR DATE FROM MODERN. BENZENE - BQL. 02/20/91<br>ICEIVED REPORT FROM NCHD. NEED RECEIPTS WHEN DISPOSED OF. 02/22/9<br>ECEIVED INCIDENT REPORT, LAB RESULTS, AND DISPOSAL RECEIPTS FRON<br>SENBART. |
|  | GAL F/O TANK TIPPED OVER. SPILLED ON GROUND AROUND TRAILER HOME<br>EALEY CONTACTED INSURANCE COMPANY.  |

ORPHAN SUMMARY

| City          | EDR ID     | Site Name                          | Site Address                   | Zip   | Database(s)               |
|---------------|------------|------------------------------------|--------------------------------|-------|---------------------------|
| NIAGARA       | 1007739645 | NIAGARA FALLS INTERNATIONAL AIRPOR | NIAGARA FALLS BLVD             | 14304 | FINDS                     |
| NIAGARA       | S106905196 | SABRE PARK - ANTHONY DRIVE AREA    | 1705 THIRD STREET              | 14304 | SHWS                      |
| NIAGARA FALLS | S105586508 | HOOKER-102ND STREET LANDFILL       | 102ND STREET, SOUTH OF RIVER R | 14304 | SHWS                      |
| NIAGARA FALLS | S106152828 | 102ND STREET LANDFILL (OLIN)       | 102ND STREET                   | 14304 | SHWS                      |
| NIAGARA FALLS | S103573070 | UNI-MART STORE #5010               | ROUTE 31 / MILITARY ROAD       |       | NY Spills, NY Hist Spills |
| NIAGARA FALLS | 1009230796 | NIAGARA RECYCLING                  | 56TH ST / NIAGARA FALLS BLVD   | 14304 | NY MANIFEST               |
| NIAGARA FALLS | S102177809 | SATARIAN AUTO PARTS                | ROUTE 62 / TUSCARORA ROAD      |       | NY Spills, NY Hist Spills |
| NIAGARA FALLS | 1007264873 | NYSDOT LA SALLE ARTERIAL EXPRESSWA | RTE 951 A MILEPOST 5401 1005   | 14304 | RCRA-LQG, NY MANIFEST     |
| NIAGARA FALLS | S103561959 | NIAGARA MOHAWK                     | 7619 GREENFIELD ST.            |       | NY Spills, NY Hist Spills |
| NIAGARA FALLS | 1003863682 | NEW ROAD LF                        | NEW RD NORTH OF PORTER         | 14304 | CERC-NFRAP                |
| NIAGARA FALLS | S106010930 | NIAGARA FALLS AFB                  | NIAGARA FALL BLVD./PORTER      |       | NY Spills                 |
| NIAGARA FALLS | 1007739667 | NIAGARA STREET OVER GILL CREEK     | NIAGARA STREET AT HYDE PARK BL |       | FINDS                     |
| NIAGARA FALLS | 99641506   | NIAGARA ST CORNER OF 25TH ST       | NIAGARA ST CORNER OF 25TH ST   |       | ERNS                      |
| NIAGARA FALLS | S106013195 | LEAKING TANKER TRUCK               | 1190S PACKARD/PORTER EXIT      |       | NY Spills                 |
| NIAGARA FALLS | S102174715 | NIAGARA MOHAWK                     | PORTER ROAD                    |       | NY Spills, NY Hist Spills |
| NIAGARA FALLS | S107658296 | CAYUGA CREEK                       | PORTER ROAD                    | 14304 | NY Spills                 |
| NIAGARA FALLS | S103562403 | SIMON OIL                          | PORTER AVENUE                  |       | NY Spills, NY Hist Spills |
| NIAGARA FALLS | S104953241 | OIL FROM UNKNOWN TRUCK             | PORTER PACKET ROAD/I190        |       | NY Spills, NY Hist Spills |
| NIAGARA FALLS | S102569852 | UNKNOWN VEHICLE ON I190            | 1190 RAMP AT ROUTE 62          |       | NY Spills, NY Hist Spills |
| NIAGARA FALLS | 1009232989 | UNITED STATES MILITARY             | RESERVE CENTER 9400 PORTER RD  | 14304 | NY MANIFEST               |
| NIAGARA FALLS | 1009227125 | NIAGARA RECYCLING                  | 56 ST/NIAGARA FALLS BLVD       | 14304 | NY MANIFEST               |
| NIAGARA FALLS | S103562826 | NIAGARA MOHAWK                     | 65 101ST STREET                |       | NY Spills, NY Hist Spills |
| NIAGARA FALLS | S105997144 | NIAGARA COUNTY CIVIC BUIL          | 775 THIRD STREET               |       | LTANKS                    |

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To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

#### FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/19/2006 Date Data Arrived at EDR: 05/05/2006 Date Made Active in Reports: 05/22/2006 Number of Days to Update: 17 Source: EPA Telephone: N/A Last EDR Contact: 05/05/2006 Next Scheduled EDR Contact: 07/31/2006 Data Release Frequency: Quarterly

### **NPL Site Boundaries**

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC) Telephone: 202-564-7333

EPA Region 1 Telephone 617-918-1143

EPA Region 3 Telephone 215-814-5418

EPA Region 4 Telephone 404-562-8033

Proposed NPL: Proposed National Priority List Sites

Date of Government Version: 04/19/2006 Date Data Arrived at EDR: 05/05/2006 Date Made Active in Reports: 05/22/2006 Number of Days to Update: 17 Source: EPA Telephone: N/A Last EDR Contact: 05/05/2006 Next Scheduled EDR Contact: 07/31/2006 Data Release Frequency: Quarterly

### DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

EPA Region 6

**EPA Region 8** 

Telephone: 214-655-6659

Telephone: 303-312-6774

Date of Government Version: 04/19/2006 Date Data Arrived at EDR: 05/05/2006 Date Made Active in Reports: 05/22/2006 Number of Days to Update: 17 Source: EPA Telephone: N/A Last EDR Contact: 05/05/2006 Next Scheduled EDR Contact: 07/31/2006 Data Release Frequency: Quarterly

#### NPL RECOVERY: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991 Date Data Arrived at EDR: 02/02/1994 Date Made Active in Reports: 03/30/1994 Number of Days to Update: 56 Source: EPA Telephone: 202-564-4267 Last EDR Contact: 05/23/2006 Next Scheduled EDR Contact: 08/21/2006 Data Release Frequency: No Update Planned

#### **CERCLIS:** Comprehensive Environmental Response, Compensation, and Liability Information System CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/01/2006 Date Data Arrived at EDR: 03/21/2006 Date Made Active in Reports: 04/13/2006 Number of Days to Update: 23 Source: EPA Telephone: 703-413-0223 Last EDR Contact: 06/22/2006 Next Scheduled EDR Contact: 09/18/2006 Data Release Frequency: Quarterly

### CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

| Date of Government Version: 02/01/2006  | 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 Date Data Arrived at EDR: 04/27/2006 Date Made Active in Reports: 05/30/2006 Number of Days to Update: 33 Source: EPA Telephone: 800-424-9346 Last EDR Contact: 06/28/2006 Next Scheduled EDR Contact: 08/21/2006 Data Release Frequency: Quarterly

#### ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 01/12/2006 Date Made Active in Reports: 02/21/2006 Number of Days to Update: 40 Source: National Response Center, United States Coast Guard Telephone: 202-260-2342 Last EDR Contact: 04/26/2006 Next Scheduled EDR Contact: 07/24/2006 Data Release Frequency: Annually

| HMIRS: Hazardous Materials Information Reportin<br>Hazardous Materials Incident Report System.   | ng System<br>. HMIRS contains hazardous material spill incidents reported to DOT.  |
|--|--|
| Date of Government Version: 12/31/2005<br>Date Data Arrived at EDR: 04/14/2006<br>Date Made Active in Reports: 05/30/2006<br>Number of Days to Update: 46  | Source: U.S. Department of Transportation<br>Telephone: 202-366-4555<br>Last EDR Contact: 04/14/2006<br>Next Scheduled EDR Contact: 07/17/2006<br>Data Release Frequency: Annually                                     |
|  | List<br>blace. Engineering controls include various forms of caps, building<br>b create pathway elimination for regulated substances to enter environmental  |
| Date of Government Version: 03/21/2006<br>Date Data Arrived at EDR: 03/27/2006<br>Date Made Active in Reports: 05/22/2006<br>Number of Days to Update: 56  | Source: Environmental Protection Agency<br>Telephone: 703-603-8905<br>Last EDR Contact: 07/03/2006<br>Next Scheduled EDR Contact: 10/02/2006<br>Data Release Frequency: Varies   |
| such as groundwater use restrictions, constru  | ols<br>lace. Institutional controls include administrative measures,<br>uction restrictions, property use restrictions, and post remediation<br>ure to contaminants remaining on site. Deed restrictions are generally |
| Date of Government Version: 03/21/2006<br>Date Data Arrived at EDR: 03/27/2006<br>Date Made Active in Reports: 05/22/2006<br>Number of Days to Update: 56  | Source: Environmental Protection Agency<br>Telephone: 703-603-8905<br>Last EDR Contact: 07/03/2006<br>Next Scheduled EDR Contact: 10/02/2006<br>Data Release Frequency: Varies   |
|  | dministered lands, administered by the Department of Defense, that cres of the United States, Puerto Rico, and the U.S. Virgin Islands.  |
| Date of Government Version: 12/31/2004<br>Date Data Arrived at EDR: 02/08/2005<br>Date Made Active in Reports: 08/04/2005<br>Number of Days to Update: 177 | Source: USGS<br>Telephone: 703-692-8801<br>Last EDR Contact: 05/12/2006<br>Next Scheduled EDR Contact: 08/07/2006<br>Data Release Frequency: Semi-Annually   |
| FUDS: Formerly Used Defense Sites<br>The listing includes locations of Formerly Use<br>is actively working or will take necessary clea                     | ed Defense Sites properties where the US Army Corps of Engineers nup actions.  |
| Date of Government Version: 12/05/2005<br>Date Data Arrived at EDR: 01/19/2006<br>Date Made Active in Reports: 02/21/2006<br>Number of Days to Update: 33  | Source: U.S. Army Corps of Engineers<br>Telephone: 202-528-4285<br>Last EDR Contact: 07/03/2006<br>Next Scheduled EDR Contact: 10/02/2006  |

Data Release Frequency: Varies

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 04/26/2006 Date Data Arrived at EDR: 04/27/2006 Date Made Active in Reports: 05/30/2006 Number of Days to Update: 33 Source: Environmental Protection Agency Telephone: 202-566-2777 Last EDR Contact: 06/12/2006 Next Scheduled EDR Contact: 09/11/2006 Data Release Frequency: Semi-Annually

### CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/14/2004 Date Data Arrived at EDR: 02/15/2005 Date Made Active in Reports: 04/25/2005 Number of Days to Update: 69 Source: Department of Justice, Consent Decree Library Telephone: Varies Last EDR Contact: 03/13/2006 Next Scheduled EDR Contact: 07/24/2006 Data Release Frequency: Varies

### ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/13/2006 Date Data Arrived at EDR: 04/28/2006 Date Made Active in Reports: 05/30/2006 Number of Days to Update: 32 Source: EPA Telephone: 703-416-0223 Last EDR Contact: 07/06/2006 Next Scheduled EDR Contact: 10/02/2006 Data Release Frequency: Annually

#### UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 11/04/2005 Date Data Arrived at EDR: 11/28/2005 Date Made Active in Reports: 01/30/2006 Number of Days to Update: 63 Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 06/21/2006 Next Scheduled EDR Contact: 09/18/2006 Data Release Frequency: Varies

#### **ODI:** Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985 Date Data Arrived at EDR: 08/09/2004 Date Made Active in Reports: 09/17/2004 Number of Days to Update: 39 Source: Environmental Protection Agency Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned

#### 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<br>Date Data Arrived at EDR: 07/13/2005 | Source: EPA<br>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<br>Data Release Frequency: Annually |
|  |  |

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002 Date Data Arrived at EDR: 04/14/2006 Date Made Active in Reports: 05/30/2006 Number of Days to Update: 46 Source: EPA Telephone: 202-260-5521 Last EDR Contact: 04/12/2006 Next Scheduled EDR Contact: 07/17/2006 Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

| Date of Government Version: 03/29/2006  | 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: 12/31/2004Source: EPADate Data Arrived at EDR: 05/11/2006Telephone: 202-5Date Made Active in Reports: 05/22/2006Last EDR ContactNumber of Days to Update: 11Next Scheduled E

Source: EPA Telephone: 202-564-4203 Last EDR Contact: 03/06/2006 Next Scheduled EDR Contact: 07/17/2006 Data Release Frequency: Annually

#### ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 02/13/2006 Date Data Arrived at EDR: 04/21/2006 Date Made Active in Reports: 05/11/2006 Number of Days to Update: 20 Source: Environmental Protection Agency Telephone: 202-564-5088 Last EDR Contact: 04/11/2006 Next Scheduled EDR Contact: 07/17/2006 Data Release Frequency: Quarterly

#### PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

| Date of Government Version: 12/27/2005<br>Date Data Arrived at EDR: 02/08/2006<br>Date Made Active in Reports: 02/27/2006<br>Number of Days to Update: 19 | Source: EPA<br>Telephone: 202-566-0500<br>Last EDR Contact: 06/28/2006<br>Next Scheduled EDR Contact: 08/07/2006<br>Data Release Frequency: Annually |  |  |
|---|--|--|--|
| MLTS: Material Licensing Tracking System  |  |  |  |
| , , ,   | y Commission and contains a list of approximately 8,100 sites which<br>th are subject to NRC licensing requirements. To maintain currency,<br>s.     |  |  |
| Date of Government Version: 04/12/2006  | Source: Nuclear Regulatory Commission  |  |  |
| Date Data Arrived at EDR: 04/26/2006<br>Date Made Active in Reports: 05/30/2006   | Telephone: 301-415-7169<br>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 issue<br>violation information.  | d for mines active or opened since 1971. The data also includes  |  |  |
| 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<br>Last EDR Contact: 06/28/2006  |  |  |
| Date Made Active in Reports: 05/30/2006<br>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<br>Data Release Frequency: Quarterly |

#### RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995 Date Data Arrived at EDR: 07/03/1995 Date Made Active in Reports: 08/07/1995 Number of Days to Update: 35

Source: EPA Telephone: 202-564-4104 Last EDR Contact: 06/05/2006 Next Scheduled EDR Contact: 09/04/2006 Data Release Frequency: No Update Planned

### BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2003 Date Data Arrived at EDR: 06/17/2005 Date Made Active in Reports: 08/04/2005 Number of Days to Update: 48 Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 06/30/2006 Next Scheduled EDR Contact: 09/11/2006 Data Release Frequency: Biennially

#### STATE AND LOCAL RECORDS

### HSWDS: Hazardous Substance Waste Disposal Site Inventory

The list includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-Registry sites that U.S. EPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared. Hazardous Substance Waste Disposal Sites are eligible to be Superfund sites now that the New York State Superfund has been refinanced and changed. This means that the study inventory has served its purpose and will no longer be maintained as a separate entity. The last version of the study inventory is frozen in time. The sites on the study will not automatically be made Superfund sites, rather each site will be further evaluated for listing on the Registry. So overtime they will be added to the registry or not.

Date of Government Version: 09/01/2002 Date Data Arrived at EDR: 10/15/2002 Date Made Active in Reports: 10/30/2002 Number of Days to Update: 15 Source: Department of Environmental Conservation Telephone: 518-402-9564 Last EDR Contact: 05/30/2006 Next Scheduled EDR Contact: 08/28/2006 Data Release Frequency: No Update Planned

### SHWS: Inactive Hazardous Waste Disposal Sites in New York State

Referred to as the State Superfund Program, the Inactive Hazardous Waste Disposal Site Remedial Program is the cleanup program for inactive hazardous waste sites and now includes hazardous substance sites

| Date of Government Version: 12/30/2005  | Source: Department of Environmental Conservation |
|---|--|
| Date Data Arrived at EDR: 01/23/2006    | Telephone: 518-402-9622                          |
| Date Made Active in Reports: 02/07/2006 | Last EDR Contact: 06/15/2006                     |
| Number of Days to Update: 15            | Next Scheduled EDR Contact: 09/11/2006           |
|   | Data Release Frequency: Annually                 |

#### DEL SHWS: Delisted Registry Sites

A database listing of sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites.

Date of Government Version: 12/30/2005 Date Data Arrived at EDR: 01/23/2006 Date Made Active in Reports: 02/07/2006 Number of Days to Update: 15 Source: Department of Environmental Conservation Telephone: 518-402-9622 Last EDR Contact: 06/15/2006 Next Scheduled EDR Contact: 09/11/2006 Data Release Frequency: Annually

#### SWF/LF: Facility Register

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/03/2006 Date Data Arrived at EDR: 05/03/2006 Date Made Active in Reports: 05/17/2006 Number of Days to Update: 14 Source: Department of Environmental Conservation Telephone: 518-457-2051 Last EDR Contact: 05/01/2006 Next Scheduled EDR Contact: 07/31/2006 Data Release Frequency: Semi-Annually

**SWRCY:** Registered Recycling Facility List A listing of recycling facilities.

Date of Government Version: 05/03/2006 Date Data Arrived at EDR: 05/03/2006 Date Made Active in Reports: 05/17/2006 Number of Days to Update: 14 Source: Department of Environmental Conservation Telephone: 518-402-8705 Last EDR Contact: 05/01/2006 Next Scheduled EDR Contact: 07/31/2006 Data Release Frequency: Semi-Annually

| SWTIRE: Registered Wa | aste Tire Storage & Facility List |
|-----------------------|-----------------------------------|
|-----------------------|-----------------------------------|

Date of Government Version: 04/01/2004 Date Data Arrived at EDR: 05/19/2004 Date Made Active in Reports: 06/25/2004 Number of Days to Update: 37 Source: Department of Environmental Conservation Telephone: 518-402-8694 Last EDR Contact: 05/19/2006 Next Scheduled EDR Contact: 08/14/2006 Data Release Frequency: Annually

### LTANKS: Spills Information Database

Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills.

Date of Government Version: 04/05/2006 Date Data Arrived at EDR: 04/06/2006 Date Made Active in Reports: 05/17/2006 Number of Days to Update: 41 Source: Department of Environmental Conservation Telephone: 518-402-9549 Last EDR Contact: 06/22/2006 Next Scheduled EDR Contact: 08/21/2006 Data Release Frequency: Varies

### HIST LTANKS: Listing of Leaking Storage Tanks

A listing of leaking underground and aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills. In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY LTANKS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002 Date Data Arrived at EDR: 07/08/2005 Date Made Active in Reports: 07/14/2005 Number of Days to Update: 6 Source: Department of Environmental Conservation Telephone: 518-402-9549 Last EDR Contact: 07/07/2005 Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned

**UST:** Petroleum Bulk Storage (PBS) Database Facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons.

Date of Government Version: 01/01/2002 Source: Department of Environmental Co

Date Data Arrived at EDR: 02/20/2002 Date Made Active in Reports: 03/22/2002 Number of Days to Update: 30 Source: Department of Environmental Conservation Telephone: 518-402-9549 Last EDR Contact: 06/02/2006 Next Scheduled EDR Contact: 07/24/2006 Data Release Frequency: No Update Planned

### CBS UST: Chemical Bulk Storage Database

Facilities that store regulated hazardous substances in underground tanks of any size

| Date of Government Version: 01/01/2002  |  |
|---|--|
| Date Data Arrived at EDR: 02/20/2002    |  |
| Date Made Active in Reports: 03/22/2002 |  |
| Number of Days to Update: 30            |  |

Source: NYSDEC Telephone: 518-402-9549 Last EDR Contact: 10/24/2005 Next Scheduled EDR Contact: 01/23/2006 Data Release Frequency: No Update Planned

### MOSF UST: Major Oil Storage Facilities Database

Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

| Date of Government Version: 01/01/2002  |  |
|---|--|
| Date Data Arrived at EDR: 02/20/2002    |  |
| Date Made Active in Reports: 03/22/2002 |  |
| Number of Days to Update: 30            |  |

Source: NYSDEC Telephone: 518-402-9549 Last EDR Contact: 07/25/2005 Next Scheduled EDR Contact: 10/24/2005 Data Release Frequency: Varies

| AST: Petroleum Bulk Storage<br>Registered Aboveground Storage Tanks.  |  |
|---|--|
| Date of Government Version: 01/01/2002<br>Date Data Arrived at EDR: 02/20/2002<br>Date Made Active in Reports: 03/22/2002<br>Number of Days to Update: 30 | Source: Department of Environmental Conservation<br>Telephone: 518-402-9549<br>Last EDR Contact: 06/02/2006<br>Next Scheduled EDR Contact: 07/24/2006<br>Data Release Frequency: No Update Planned   |
| <b>CBS AST:</b> Chemical Bulk Storage Database<br>Facilities that store regulated hazardous subs<br>and/or in underground tanks of any size.              | tances in aboveground tanks with capacities of 185 gallons or greater,   |
| Date of Government Version: 01/01/2002<br>Date Data Arrived at EDR: 02/20/2002<br>Date Made Active in Reports: 03/22/2002<br>Number of Days to Update: 30 | Source: NYSDEC<br>Telephone: 518-402-9549<br>Last EDR Contact: 07/25/2005<br>Next Scheduled EDR Contact: 10/24/2005<br>Data Release Frequency: No Update Planned   |
| <b>MOSF AST:</b> Major Oil Storage Facilities Database<br>Facilities that may be onshore facilities or ves<br>greater.                                    | sels, with petroleum storage capacities of 400,000 gallons or  |
| Date of Government Version: 01/01/2002<br>Date Data Arrived at EDR: 02/20/2002<br>Date Made Active in Reports: 03/22/2002<br>Number of Days to Update: 30 | Source: NYSDEC<br>Telephone: 518-402-9549<br>Last EDR Contact: 07/25/2005<br>Next Scheduled EDR Contact: 10/24/2005<br>Data Release Frequency: No Update Planned   |
| NY MANIFEST: Facility and Manifest Data<br>Manifest is a document that lists and tracks ha<br>facility.   | azardous waste from the generator through transporters to a TSD  |
| Date of Government Version: 05/02/2006<br>Date Data Arrived at EDR: 05/31/2006<br>Date Made Active in Reports: 06/27/2006<br>Number of Days to Update: 27 | Source: Department of Environmental Conservation<br>Telephone: 518-402-8651<br>Last EDR Contact: 05/31/2006<br>Next Scheduled EDR Contact: 08/28/2006<br>Data Release Frequency: Annually  |
|   | as required by one or more of the following: Article 12 of the Navigation s), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active since this date.   |
| Date of Government Version: 04/05/2006<br>Date Data Arrived at EDR: 04/06/2006<br>Date Made Active in Reports: 05/17/2006<br>Number of Days to Update: 41 | Source: Department of Environmental Conservation<br>Telephone: 518-402-9549<br>Last EDR Contact: 06/22/2006<br>Next Scheduled EDR Contact: 08/21/2006<br>Data Release Frequency: Varies  |
| chemical spills that can impact the waters of t<br>by anyone who has knowledge of the spills). I<br>updates to its original Spills Information Datab      | nd petroleum spill incidents. Under State law, petroleum and hazardous<br>he state must be reported by the spiller (and, in some cases,<br>n 2002, the Department of Environmental Conservation stopped providing<br>base. This database includes fields that are no longer available<br>ent information may be found in the NY SPILLS database. Department of |
| Date of Government Version: 01/01/2002<br>Date Data Arrived at EDR: 07/08/2005<br>Date Made Active in Reports: 07/14/2005                                 | Source: Department of Environmental Conservation<br>Telephone: 518-402-9549<br>Last EDR Contact: 07/07/2005  |

Next Scheduled EDR Contact: N/A

Number of Days to Update: 6

Data Release Frequency: No Update Planned

### ENG CONTROLS: Registry of Engineering Controls

Environmental Remediation sites that have engineering controls in place.

| Date of Government Version: 12/30/2005  | Sourc  |
|---|--------|
| Date Data Arrived at EDR: 01/23/2006    | Telep  |
| Date Made Active in Reports: 02/07/2006 | Last I |
| Number of Days to Update: 15            | Next   |
|   |        |

Source: Department of Environmental Conservation Telephone: 518-402-9553 Last EDR Contact: 06/15/2006 Next Scheduled EDR Contact: 09/11/2006 Data Release Frequency: Quarterly

### **INST CONTROL:** Registry of Institutional Controls

Environmental Remediation sites that have institutional controls in place.

| Source: Department of Environmental Conservation |
|--|
| Telephone: 518-402-9553                          |
| Last EDR Contact: 06/15/2006                     |
| Next Scheduled EDR Contact: 09/11/2006           |
| Data Release Frequency: Quarterly                |
|  |

### VCP: Voluntary Cleanup Agreements

New York established its Voluntary Cleanup Program (VCP) to address the environmental, legal and financial barriers that often hinder the redevelopment and reuse of contaminated properties. The Voluntary Cleanup Program was developed to enhance private sector cleanup of brownfields by enabling parties to remediate sites using private rather than public funds and to reduce the development pressures on "greenfield" sites.

Date of Government Version: 12/30/2005 Date Data Arrived at EDR: 01/05/2006 Date Made Active in Reports: 02/07/2006 Number of Days to Update: 33 Source: Department of Environmental Conservation Telephone: 518-402-9711 Last EDR Contact: 06/15/2006 Next Scheduled EDR Contact: 09/11/2006 Data Release Frequency: Semi-Annually

#### **DRYCLEANERS:** Registered Drycleaners

A listing of all registered drycleaning facilities.

| Date of Government Version: 06/15/2004  | Source: Department of Environmental Conservation |
|---|--|
| Date Data Arrived at EDR: 06/15/2004    | Telephone: 518-402-8403                          |
| Date Made Active in Reports: 07/29/2004 | Last EDR Contact: 05/21/2004                     |
| Number of Days to Update: 44            | Next Scheduled EDR Contact: N/A                  |
|   | Data Release Frequency: Varies                   |

#### BROWNFIELDS: Brownfields Site List

A Brownfield is any real property where redevelopment or re-use may be complicated by the presence or potential presence of a hazardous waste, petroleum, pollutant, or contaminant.

| Date of Government Version: 12/30/2005  | Source: Department of Environmental Conservation |
|---|--|
| Date Data Arrived at EDR: 01/23/2006    | Telephone: 518-402-9764                          |
| Date Made Active in Reports: 02/07/2006 | Last EDR Contact: 06/15/2006                     |
| Number of Days to Update: 15            | Next Scheduled EDR Contact: 09/11/2006           |
|   | Data Release Frequency: Semi-Annually            |

### SPDES: State Pollutant Discharge Elimination System

New York State has a state program which has been approved by the United States Environmental Protection Agency for the control of wastewater and stormwater discharges in accordance with the Clean Water Act. Under New York State law the program is known as the State Pollutant Discharge Elimination System (SPDES) and is broader in scope than that required by the Clean Water Act in that it controls point source discharges to groundwaters as well as surface waters.

Date of Government Version: 05/11/2006 Date Data Arrived at EDR: 05/11/2006 Date Made Active in Reports: 06/27/2006 Number of Days to Update: 47 Source: Department of Environmental Conservation Telephone: 518-402-8233 Last EDR Contact: 05/09/2006 Next Scheduled EDR Contact: 08/07/2006 Data Release Frequency: No Update Planned Telephone: 518-402-8452

Last EDR Contact: 06/05/2006

#### AIRS: Air Emissions Data

Date of Government Version: 12/31/2002 Date Data Arrived at EDR: 09/13/2004 Date Made Active in Reports: 10/18/2004 Number of Days to Update: 35

### TRIBAL RECORDS

#### **INDIAN RESERV:** Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2004 Date Data Arrived at EDR: 02/08/2005 Date Made Active in Reports: 08/04/2005 Number of Days to Update: 177 Source: USGS Telephone: 202-208-3710 Last EDR Contact: 05/12/2006 Next Scheduled EDR Contact: 08/07/2006 Data Release Frequency: Semi-Annually

Next Scheduled EDR Contact: 08/21/2006 Data Release Frequency: Annually

Source: Department of Environmental Conservation

### EDR PROPRIETARY RECORDS

### Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned

### EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

### EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

### COUNTY RECORDS

### CORTLAND COUNTY:

### **Cortland County Storage Tank Listing**

Date of Government Version: 03/28/2006 Date Data Arrived at EDR: 04/03/2006 Date Made Active in Reports: 04/27/2006 Number of Days to Update: 24

#### **Cortland County Storage Tank Listing**

Date of Government Version: 03/28/2006 Date Data Arrived at EDR: 04/03/2006 Date Made Active in Reports: 04/27/2006 Number of Days to Update: 24 Source: Cortland County Health Department Telephone: 607-753-5035 Last EDR Contact: 05/30/2006 Next Scheduled EDR Contact: 08/28/2006 Data Release Frequency: Quarterly

Source: Cortland County Health Department Telephone: 607-753-5035 Last EDR Contact: 05/30/2006 Next Scheduled EDR Contact: 08/28/2006 Data Release Frequency: Quarterly

Source: Nassau County Health Department

Next Scheduled EDR Contact: 07/31/2006 Data Release Frequency: No Update Planned

Next Scheduled EDR Contact: 08/07/2006

Next Scheduled EDR Contact: 08/07/2006 Data Release Frequency: Varies

Next Scheduled EDR Contact: 07/31/2006

Data Release Frequency: No Update Planned

Source: Nassau County Office of the Fire Marshal

Source: Nassau County Office of the Fire Marshal

Telephone: 516-571-3314 Last EDR Contact: 05/01/2006

Telephone: 516-572-1000

Telephone: 516-572-1000

Last EDR Contact: 06/07/2006

Last EDR Contact: 06/07/2006

Data Release Frequency: Varies

### NASSAU COUNTY:

### **Registered Tank Database**

Date of Government Version: 05/21/2003 Date Data Arrived at EDR: 05/27/2003 Date Made Active in Reports: 06/09/2003 Number of Days to Update: 13

### Storage Tank Database

Date of Government Version: 05/25/2004 Date Data Arrived at EDR: 06/08/2004 Date Made Active in Reports: 07/29/2004 Number of Days to Update: 51

### Storage Tank Database

Date of Government Version: 05/25/2004 Date Data Arrived at EDR: 06/08/2004 Date Made Active in Reports: 07/29/2004 Number of Days to Update: 51

#### **Registered Tank Database**

Date of Government Version: 05/21/2003 Date Data Arrived at EDR: 05/27/2003 Date Made Active in Reports: 06/09/2003 Number of Days to Update: 13 Source: Nassau County Health Department Telephone: 516-571-3314 Last EDR Contact: 05/01/2006

#### **ROCKLAND COUNTY:**

Petroleum Bulk Storage Database

Date of Government Version: 04/21/2006 Date Data Arrived at EDR: 04/24/2006 Date Made Active in Reports: 05/24/2006 Number of Days to Update: 30

Petroleum Bulk Storage Database

Date of Government Version: 04/21/2006 Date Data Arrived at EDR: 04/24/2006 Date Made Active in Reports: 05/22/2006 Number of Days to Update: 28 Source: Rockland County Health Department Telephone: 914-364-2605 Last EDR Contact: 07/03/2006 Next Scheduled EDR Contact: 10/02/2006 Data Release Frequency: Quarterly

Source: Rockland County Health Department Telephone: 914-364-2605 Last EDR Contact: 07/03/2006 Next Scheduled EDR Contact: 10/02/2006 Data Release Frequency: Quarterly

### SUFFOLK COUNTY:

#### Storage Tank Database

Date of Government Version: 06/21/2005 Date Data Arrived at EDR: 09/19/2005 Date Made Active in Reports: 11/03/2005 Number of Days to Update: 45 Source: Suffolk County Department of Health Services Telephone: 631-854-2521 Last EDR Contact: 06/02/2006 Next Scheduled EDR Contact: 08/28/2006 Data Release Frequency: Annually

### Storage Tank Database

Date of Government Version: 06/21/2005 Date Data Arrived at EDR: 09/19/2005 Date Made Active in Reports: 11/03/2005 Number of Days to Update: 45 Source: Suffolk County Department of Health Services Telephone: 631-854-2521 Last EDR Contact: 06/02/2006 Next Scheduled EDR Contact: 08/28/2006 Data Release Frequency: Annually

### WESTCHESTER COUNTY:

#### Listing of Storage Tanks

Listing of aboveground storage tanks in Westchester County.

Date of Government Version: 05/05/2005 Date Data Arrived at EDR: 05/31/2005 Date Made Active in Reports: 06/30/2005 Number of Days to Update: 30

Source: Westchester County Department of Health Telephone: 914-813-5161 Last EDR Contact: 05/31/2006 Next Scheduled EDR Contact: 08/28/2006 Data Release Frequency: Varies

#### Listing of Storage Tanks

Listing of underground storage tanks in Westchester County.

Date of Government Version: 05/05/2005 Date Data Arrived at EDR: 05/31/2005 Date Made Active in Reports: 06/30/2005 Number of Days to Update: 30 Source: Westchester County Department of Health Telephone: 914-813-5161 Last EDR Contact: 05/31/2006 Next Scheduled EDR Contact: 08/28/2006 Data Release Frequency: Varies

#### OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

#### CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2004 Date Data Arrived at EDR: 02/17/2006 Date Made Active in Reports: 04/07/2006 Number of Days to Update: 49

NJ MANIFEST: Manifest Information Hazardous waste manifest information.

> Date of Government Version: 12/31/2004 Date Data Arrived at EDR: 04/24/2006 Date Made Active in Reports: 05/02/2006 Number of Days to Update: 8

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

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

VT MANIFEST: Hazardous Waste Manifest Data Hazardous waste manifest information.

> Date of Government Version: 12/31/2004 Date Data Arrived at EDR: 03/17/2006 Date Made Active in Reports: 05/17/2006 Number of Days to Update: 61

#### 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 Environmental Protection Telephone: 860-424-3375 Last EDR Contact: 06/14/2006 Next Scheduled EDR Contact: 09/11/2006 Data Release Frequency: Annually

Source: Department of Environmental Protection Telephone: N/A Last EDR Contact: 07/05/2006 Next Scheduled EDR Contact: 10/02/2006 Data Release Frequency: Annually

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

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

Source: Department of Environmental Conservation Telephone: 802-241-3443 Last EDR Contact: 05/15/2006 Next Scheduled EDR Contact: 08/14/2006 Data Release Frequency: Annually

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

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fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

**Sensitive Receptors:** There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

#### **AHA Hospitals:**

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

#### Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services,

a federal agency within the U.S. Department of Health and Human Services.

#### **Nursing Homes**

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

#### **Public Schools**

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary

and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

#### Private Schools

Source: National Center for Education Statistics Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

### Daycare Centers: Day Care Providers

Source: Department of Health Telephone: 212-676-2444

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

#### State Wetlands Data: Freshwater Wetlands

Source: Department of Environmental Conservation Telephone: 518-402-8961

### 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

NIAGARA FALLS USARC/AMSA 76, NY 9400 PORTER ROAD NIAGARA FALLS, NY 14304

### TARGET PROPERTY COORDINATES

| Latitude (North):             | 43.10020 - 43° 6' 0.7'' |
|-------------------------------|-------------------------|
| Longitude (West):             | 78.9549 - 78° 57' 17.6" |
| Universal Tranverse Mercator: | Zone 17                 |
| UTM X (Meters):               | 666428.7                |
| UTM Y (Meters):               | 4773757.0               |
| Elevation:                    | 577 ft. above sea level |

### USGS TOPOGRAPHIC MAP

| Target Property Map:  | 43078-A8 TONAWANDA WEST, NY |
|-----------------------|-----------------------------|
| Most Recent Revision: | 1980                        |

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.

### **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).

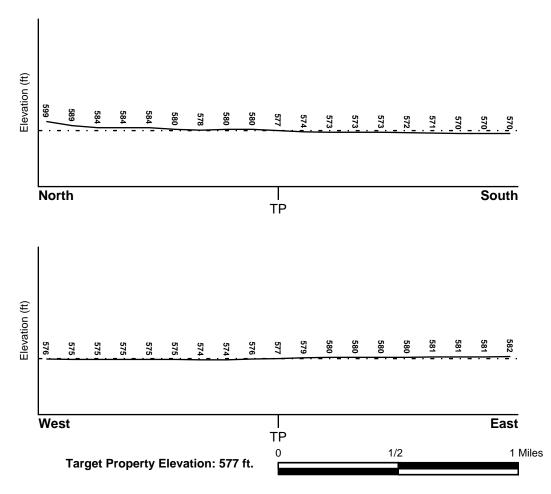
### **TOPOGRAPHIC INFORMATION**

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 SW

### 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.

### HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

### FEMA FLOOD ZONE

| Target Property County<br>NIAGARA, NY         | FEMA Flood<br><u>Electronic Data</u><br>YES - refer to the Overview Map and Detail Map   |
|---|--|
| Flood Plain Panel at Target Property:         | 3605070004B  |
| Additional Panels in search area:             | 3605070002B<br>3605130001B<br>3605130004D<br>3605060003C                                 |
| NATIONAL WETLAND INVENTORY                    |  |
| NWI Quad at Target Property<br>TONAWANDA WEST | NWI Electronic<br><u>Data Coverage</u><br>YES - refer to the Overview Map and Detail Map |

### HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

| Site-Specific Hydrogeological Data*: |            |  |  |
|--------------------------------------|------------|--|--|
| Search Radius:                       | 1.25 miles |  |  |
| Status:                              | Not found  |  |  |

### **AQUIFLOW**®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID Not Reported LOCATION FROM TP GENERAL DIRECTION GROUNDWATER FLOW

### **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**

### **GEOLOGIC AGE IDENTIFICATION**

| Era:    | Paleozoic                          | Category: | Stratifed Sequence |
|---------|------------------------------------|-----------|--------------------|
| System: | Silurian                           |           |                    |
| Series: | Middle Silurian (Niagoaran)        |           |                    |
| Code:   | S2 (decoded above as Era, System & | Series)   |                    |

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:                   | LAKEMONT  |
|--|---|
| Soil Surface Texture:                  | silty clay loam   |
| Hydrologic Group:                      | Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer. |
| Soil Drainage Class:                   | Not reported  |
| Hydric Status: Soil meets the requiren | nents for a hydric soil.  |
| Corrosion Potential - Uncoated Steel:  | HIGH  |
| Depth to Bedrock Min:                  | > 60 inches   |
| Depth to Bedrock Max:                  | > 60 inches   |

|       | Soil Layer Information |           |                    |   |   |                              |                        |
|-------|------------------------|-----------|--------------------|---|---|------------------------------|------------------------|
|       | Boundary               |           |                    | Classification  |   |                              |                        |
| Layer | Upper                  | Lower     | Soil Texture Class | AASHTO Group  | Unified Soil  | Permeability<br>Rate (in/hr) | Soil Reaction<br>(pH)  |
| 1     | 0 inches               | 8 inches  | silty clay loam    | Silt-Clay<br>Materials (more<br>than 35 pct.<br>passing No.<br>200), Clayey<br>Soils. | FINE-GRAINED<br>SOILS, Silts and<br>Clays (liquid<br>limit less than<br>50%), Lean Clay | Max: 0.60<br>Min: 0.20       | Max: 7.30<br>Min: 6.10 |
| 2     | 8 inches               | 26 inches | silty clay         | Silt-Clay<br>Materials (more<br>than 35 pct.<br>passing No.<br>200), Clayey<br>Soils. | FINE-GRAINED<br>SOILS, Silts and<br>Clays (liquid<br>limit less than<br>50%), Lean Clay | Max: 0.06<br>Min: 0.00       | Max: 7.30<br>Min: 6.10 |
| 3     | 26 inches              | 60 inches | silty clay         | Silt-Clay<br>Materials (more<br>than 35 pct.<br>passing No.<br>200), Clayey<br>Soils. | FINE-GRAINED<br>SOILS, Silts and<br>Clays (liquid<br>limit less than<br>50%), Lean Clay | Max: 0.06<br>Min: 0.00       | Max: 8.40<br>Min: 7.40 |

### OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

| Soil Surface Textures: | silt loam<br>mucky - silt loam<br>loamy fine sand<br>fine sandy loam |
|------------------------|--|
| Surficial Soil Types:  | silt loam<br>mucky - silt loam<br>loamy fine sand<br>fine sandy loam |
| Shallow Soil Types:    | loamy fine sand  |
| Deeper Soil Types:     | silt loam<br>fine sand<br>gravelly - loam                            |

### LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

### WELL SEARCH DISTANCE INFORMATION

| DATABASE                         | SEARCH DISTANCE (miles)            |
|----------------------------------|------------------------------------|
| Federal USGS<br>Federal FRDS PWS | 1.000<br>Nearest PWS within 1 mile |
| State Database                   | 1.000                              |

### FEDERAL USGS WELL INFORMATION

| MAP ID | WELL ID     | LOCATION<br>FROM TP |
|--------|-------------|---------------------|
| 1      | USGS2242961 | 0 - 1/8 Mile NNW    |
| 2      | USGS2242955 | 1/8 - 1/4 Mile East |
| 3      | USGS2242949 | 1/4 - 1/2 Mile ESE  |
| 4      | USGS2242964 | 1/4 - 1/2 Mile WNW  |
| 5      | USGS2242945 | 1/4 - 1/2 Mile WSW  |
| 6      | USGS2242794 | 1/4 - 1/2 Mile NNW  |
| 7      | USGS2242965 | 1/4 - 1/2 Mile West |
| 8      | USGS2242941 | 1/2 - 1 Mile WSW    |
| 9      | USGS2242786 | 1/2 - 1 Mile WNW    |
| 10     | USGS2242929 | 1/2 - 1 Mile WSW    |
| A11    | USGS2242948 | 1/2 - 1 Mile East   |
| A12    | USGS2242947 | 1/2 - 1 Mile East   |
| 13     | USGS2242897 | 1/2 - 1 Mile SW     |
| 14     | USGS2242933 | 1/2 - 1 Mile WSW    |
| 15     | USGS2242953 | 1/2 - 1 Mile East   |
| 16     | USGS2242890 | 1/2 - 1 Mile SSE    |
| 17     | USGS2242827 | 1/2 - 1 Mile NNE    |
| 18     | USGS2242773 | 1/2 - 1 Mile West   |
| 19     | USGS2242822 | 1/2 - 1 Mile NNE    |
| 20     | USGS2242879 | 1/2 - 1 Mile South  |
| 21     | USGS2242816 | 1/2 - 1 Mile NW     |

### FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

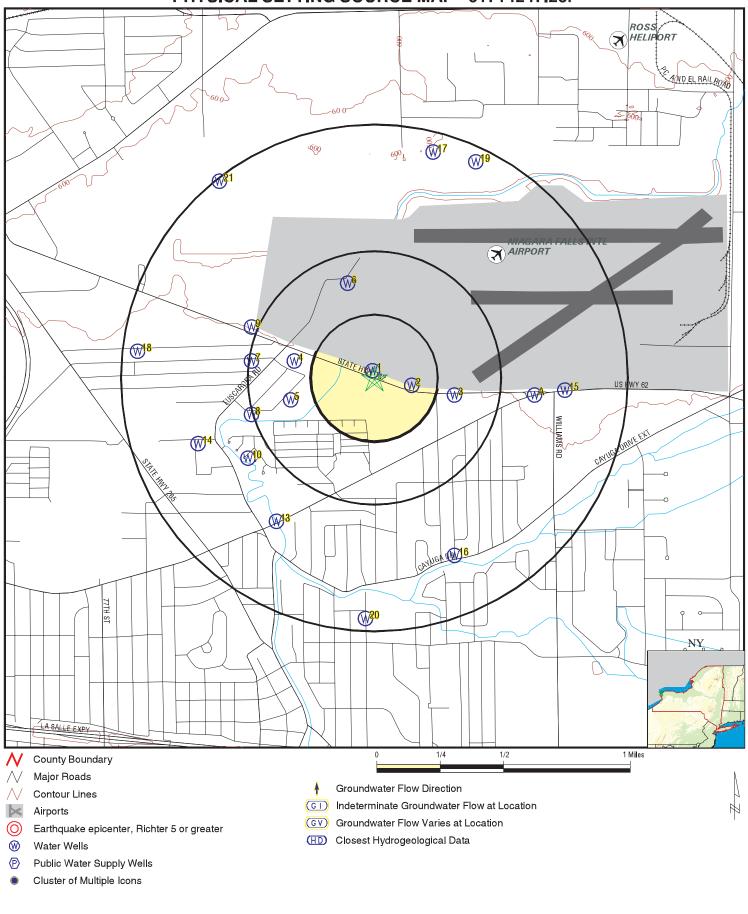
|                     |         | LOCATION |
|---------------------|---------|----------|
| MAP ID              | WELL ID | FROM TP  |
| No PWS System Found |         |          |

Note: PWS System location is not always the same as well location.

### STATE DATABASE WELL INFORMATION

|                |         | LOCATION |
|----------------|---------|----------|
| MAP ID         | WELL ID | FROM TP  |
| No Wells Found |         |          |

PHYSICAL SETTING SOURCE MAP - 01714247.26r



|           | Niagara Falls USARC/AMSA 76, NY<br>9400 PORTER ROAD |
|-----------|---|
| ADDRESS.  | NIAGARA FALLS NY 14304                              |
| LAT/LONG: | 43.1002 / 78.9549                                   |

Map ID Direction Distance Elevation

| Distance<br>Elevation   |  |   | Database                                   | EDR ID Number |
|---|--|---|--|---------------|
| 1<br>NNW<br>0 - 1/8 Mile<br>Higher  |  |   | FED USGS                                   | USGS2242961   |
| Agency cd:<br>Site name:<br>Latitude:   | USGS<br>NI 216<br>430602   | Site no:  | 430602078571901                            |               |
| Longitude:<br>Dec lon:<br>Coor accr:  | 0785719<br>-78.95504108<br>T                                       | Dec lat:<br>Coor meth:<br>Latlong datum:  | 43.1006116<br>M<br>NAD27                   |               |
| Dec latlong datum:<br>State:<br>Country:  | NAD83<br>36<br>US<br>TONAWANDA WL 65 4                             | District:<br>County:<br>Land net:   | 36<br>063<br>Not Reported<br>25000         |               |
| Location map:<br>Altitude:<br>Altitude accuracy:<br>Hydrologic:   | TONAWANDA W I-05-4<br>581<br>10<br>Niagara. New York. Area = 774 s | Map scale:<br>Altitude method:<br>Altitude datum:   | M<br>MGVD29                                |               |
| Topographic:<br>Site type:<br>Date inventoried:   | Not Reported<br>Ground-water other than Spring<br>Not Reported     | Date construction:<br>Mean greenwich time offset:   | Not Reported<br>EST                        |               |
| Local standard time flag:<br>Type of ground water site:<br>Aquifer Type:  | N<br>Test hole, not completed as a we<br>Not Reported              | ili   |  |               |
| Aquifer:<br>Well depth:<br>Source of depth data:<br>Real time data flag:  | Not Reported<br>Not Reported<br>Not Reported<br>Not Reported       | Hole depth:<br>Project number:<br>Daily flow data begin date:   | Not Reported<br>NY86-16400<br>Not Reported |               |
| Daily flow data end date:<br>Peak flow data begin date:<br>Peak flow data count:<br>Water quality data end date | Not Reported<br>Not Reported                                       | Daily flow data count:<br>Peak flow data end date:<br>Water quality data begin date:<br>Water quality data count: | Not Reported                               |               |
| Ground water data begin da<br>Ground water data count:  | ate: Not Reported<br>Not Reported                                  | Ground water data end date:   | Not Reported                               |               |

Ground-water levels, Number of Measurements: 0

| 2<br>East<br>1/8 - 1/4 Mile<br>Higher |                                 |                             | FED USGS        | USGS2242955 |
|---------------------------------------|---------------------------------|-----------------------------|-----------------|-------------|
| Agency cd:                            | USGS                            | Site no:                    | 430559078570801 |             |
| Site name:                            | NI 213                          |                             |                 |             |
| Latitude:                             | 430559                          |                             |                 |             |
| Longitude:                            | 0785708                         | Dec lat:                    | 43.09977829     |             |
| Dec Ion:                              | -78.95198539                    | Coor meth:                  | Μ               |             |
| Coor accr:                            | Т                               | Latlong datum:              | NAD27           |             |
| Dec latlong datum:                    | NAD83                           | District:                   | 36              |             |
| State:                                | 36                              | County:                     | 063             |             |
| Country:                              | US                              | Land net:                   | Not Reported    |             |
| Location map:                         | TONAWANDA W I-05-4              | Map scale:                  | 25000           |             |
| Altitude:                             | 581                             | Altitude method:            | Μ               |             |
| Altitude accuracy:                    | 10                              | Altitude datum:             | NGVD29          |             |
| Hydrologic:                           | Niagara. New York. Area = 774 s | sq.mi.                      |                 |             |
| Topographic:                          | Not Reported                    |                             |                 |             |
| Site type:                            | Ground-water other than Spring  | Date construction:          | Not Reported    |             |
| Date inventoried:                     | Not Reported                    | Mean greenwich time offset: | EST             |             |

Hole depth:

Project number:

Daily flow data begin date:

Peak flow data end date:

Water quality data count:

Ground water data end date:

Water quality data begin date: Not Reported

Daily flow data count:

| V                                 |  |
|-----------------------------------|--|
| est hole, not completed as a well |  |
| Not Reported                      |  |
| Not Reported                      |  |
| Not Reported                      | Η  |
| Not Reported                      | P  |
| Not Reported                      | D  |
| Not Reported                      | D  |
| Not Reported                      | P  |
| Not Reported                      | W  |
| Not Reported                      | W  |
| e: Not Reported                   | G  |
| Not Reported                      |  |
|                                   | est hole, not completed as a well<br>lot Reported<br>lot Reported<br>lot Reported<br>lot Reported<br>lot Reported<br>lot Reported<br>lot Reported<br>lot Reported<br>lot Reported<br>e: Not Reported |

Ground-water levels, Number of Measurements: 0

#### 3 ESE 1/4 - 1/2 Mile Higher

FED USGS USGS2242949

Not Reported

NY86-16400

Not Reported

Not Reported Not Reported

Not Reported

Not Reported

| gner                        |                                  |                                |                 |
|-----------------------------|----------------------------------|--------------------------------|-----------------|
| Agency cd:                  | USGS                             | Site no:                       | 430557078565601 |
| Site name:                  | NI 211                           |                                |                 |
| Latitude:                   | 430557                           |                                |                 |
| Longitude:                  | 0785656                          | Dec lat:                       | 43.09922275     |
| Dec lon:                    | -78.94865192                     | Coor meth:                     | Μ               |
| Coor accr:                  | Т                                | Latlong datum:                 | NAD27           |
| Dec latlong datum:          | NAD83                            | District:                      | 36              |
| State:                      | 36                               | County:                        | 063             |
| Country:                    | US                               | Land net:                      | Not Reported    |
| Location map:               | TONAWANDA W I-05-4               | Map scale:                     | 25000           |
| Altitude:                   | 577                              | Altitude method:               | Μ               |
| Altitude accuracy:          | 10                               | Altitude datum:                | NGVD29          |
| Hydrologic:                 | Niagara. New York. Area = 774 s  | q.mi.                          |                 |
| Topographic:                | Not Reported                     |                                |                 |
| Site type:                  | Ground-water other than Spring   | Date construction:             | Not Reported    |
| Date inventoried:           | Not Reported                     | Mean greenwich time offset:    | EST             |
| Local standard time flag:   | N                                |                                |                 |
| Type of ground water site:  | Test hole, not completed as a we | 11                             |                 |
| Aquifer Type:               | Not Reported                     |                                |                 |
| Aquifer:                    | Not Reported                     |                                |                 |
| Well depth:                 | Not Reported                     | Hole depth:                    | Not Reported    |
| Source of depth data:       | Not Reported                     | Project number:                | NY86-16400      |
| Real time data flag:        | Not Reported                     | Daily flow data begin date:    | Not Reported    |
| Daily flow data end date:   | Not Reported                     | Daily flow data count:         | Not Reported    |
| Peak flow data begin date:  |                                  | Peak flow data end date:       | Not Reported    |
| Peak flow data count:       | Not Reported                     | Water quality data begin date: | Not Reported    |
| Water quality data end date |                                  | Water quality data count:      | Not Reported    |
| Ground water data begin da  | •                                | Ground water data end date:    | Not Reported    |
| Ground water data count:    | Not Reported                     |                                |                 |

Ground-water levels, Number of Measurements: 0

4 WNW 1/4 - 1/2 Mile Higher

FED USGS USGS2242964

| Agency cd:  | USGS                             | Site no:   | 430604078574101 |
|---|----------------------------------|--|-----------------|
| Site name:  | NI 219                           |  |                 |
| Latitude:   | 430604                           |  |                 |
| Longitude:  | 0785741                          | Dec lat:   | 43.10116711     |
| Dec lon:  | -78.96115243                     | Coor meth:   | M               |
| Coor accr:  | T                                | Latlong datum:                                     | NAD27           |
| Dec lationg datum:                                  | NAD83                            | District:  | 36              |
| State:  | 36                               | County:  | 063             |
| Country:  | US                               | Land net:  | Not Reported    |
| Location map:                                       | TONAWANDA W I-05-4               | Map scale:   | 25000           |
| Altitude:   | 581                              | Altitude method:                                   | M               |
| Altitude accuracy:                                  | 10                               | Altitude datum:                                    | NGVD29          |
| Hydrologic:   | Niagara. New York. Area = 774 s  |  | NOVD25          |
| Topographic:  | Not Reported                     | q.m.   |                 |
| Site type:  | Ground-water other than Spring   | Date construction:                                 | Not Reported    |
| Date inventoried:                                   | Not Reported                     | Mean greenwich time offset:                        | EST             |
| Local standard time flag:                           | N                                | mean greenwich time onset.                         | LOT             |
| Type of ground water site:                          | Test hole, not completed as a we | п  |                 |
| Aquifer Type:                                       | Not Reported                     | 11   |                 |
| Aquifer:  | Not Reported                     |  |                 |
| Well depth:   | Not Reported                     | Hole depth:  | Not Reported    |
| Source of depth data:                               | •                                | Project number:                                    | NY86-16400      |
| Real time data flag:                                | Not Reported                     |  |                 |
| 0   | Not Reported                     | Daily flow data begin date:                        | Not Reported    |
| Daily flow data end date:                           | Not Reported                     | Daily flow data count:<br>Peak flow data end date: | Not Reported    |
| Peak flow data begin date:<br>Peak flow data count: |                                  |  | Not Reported    |
|   | Not Reported                     | Water quality data begin date:                     |                 |
| Water quality data end date                         | •                                | Water quality data count:                          | Not Reported    |
| Ground water data begin da                          | •                                | Ground water data end date:                        | Not Reported    |
| Ground water data count:                            | Not Reported                     |  |                 |
| Cround water levels, Numb                           | or of Macauramanta, 0            |  |                 |
| Ground-water levels, Numb                           | er of measurements. O            |  |                 |
|   |                                  |  |                 |
| 5   |                                  |  |                 |
| wsw   |                                  |  | FED USGS        |
| 1/4 - 1/2 Mile                                      |                                  |  |                 |
| Lower   |                                  |  |                 |
| Agency cd:  | USGS                             | Site no:   | 430556078574201 |
| Site name:  | NI 207                           |  |                 |
| Latitude:   | 430556                           |  |                 |
| Longitude:  | 0785742                          | Dec lat:   | 43.0989449      |
| Dec lon:  | -78.96143019                     | Coor meth:   | M               |
| Coor accr:  | T                                | Latlong datum:                                     | NAD27           |
| Dec latlong datum:                                  | NAD83                            | District:  | 36              |
| State:  | 36                               | County:  | 063             |
| Country:  | US                               | Land net:  | Not Reported    |
| Location map:                                       | TONAWANDA W I-05-4               | Map scale:   | 25000           |
| Altitude:   | 573                              | Altitude method:                                   | 23000<br>M      |
|   | 10                               | Altitude datum:                                    | NGVD29          |
| Altitude accuracy:                                  | Niagara New York Area - 774 s    |  | NOVD23          |

Niagara. New York. Area = 774 sq.mi.

Test hole, not completed as a well

Ground-water other than Spring Date construction:

Not Reported

Ν

Hydrologic:

Site type:

Topographic:

Aquifer Type:

Well depth:

Aquifer:

Date inventoried:

Local standard time flag:

Source of depth data:

Daily flow data end date:

Peak flow data begin date: Not Reported

Real time data flag:

Type of ground water site:

Not Reported

EST

Mean greenwich time offset:

Hole depth:

Project number:

Daily flow data count:

Not Reported NY86-16400 Daily flow data begin date: Not Reported Not Reported Peak flow data end date: Not Reported

USGS2242945

Peak flow data count:Not ReportedWater quality data end date:Not ReportedGround water data begin date:Not ReportedGround water data count:Not Reported

Water quality data begin date:Not ReportedWater quality data count:Not ReportedGround water data end date:Not Reported

Ground-water levels, Number of Measurements: 0

| 6<br>NNW<br>1/4 - 1/2 Mile<br>Higher   |  |  | FED USGS   | USGS2242794 |
|--|--|--|--|-------------|
| Agency cd:<br>Site name:<br>Latitude:  | USGS<br>NI 240<br>430620   | Site no:   | 430620078572601  |             |
| Longitude:<br>Dec lon:<br>Coor accr:<br>Dec latlong datum:   | 0785726<br>-78.95698566<br>T<br>NAD83  | Dec lat:<br>Coor meth:<br>Latlong datum:<br>District:  | 43.10561156<br>M<br>NAD27<br>36                              |             |
| State:<br>Country:<br>Location map:  | 36<br>US<br>TONAWANDA W I-05-4   | County:<br>Land net:<br>Map scale:   | 063<br>Not Reported<br>250000                                |             |
| Altitude:<br>Altitude accuracy:<br>Hydrologic:<br>Topographic:   | 596<br>10<br>Niagara. New York. Area = 774 s<br>Not Reported                     | Altitude method:<br>Altitude datum:<br>q.mi.   | M<br>NGVD29  |             |
| Site type:<br>Date inventoried:<br>Local standard time flag:   | Ground-water other than Spring<br>Not Reported<br>N                              | Date construction:<br>Mean greenwich time offset:  | Not Reported<br>EST  |             |
| Type of ground water site:<br>Aquifer Type:<br>Aquifer:<br>Well depth:   | Test hole, not completed as a we<br>Not Reported<br>Not Reported<br>Not Reported | Hole depth:  | Not Reported   |             |
| Source of depth data:<br>Real time data flag:<br>Daily flow data end date:                                       | Not Reported<br>Not Reported<br>Not Reported<br>Not Reported                     | Project number:<br>Daily flow data begin date:<br>Daily flow data count:   | NY86-16400<br>Not Reported<br>Not Reported                   |             |
| Peak flow data begin date:<br>Peak flow data count:<br>Water quality data end date<br>Ground water data begin da | ate: Not Reported  | Peak flow data end date:<br>Water quality data begin date:<br>Water quality data count:<br>Ground water data end date: | Not Reported<br>Not Reported<br>Not Reported<br>Not Reported |             |
| Ground water data count:   | Not Reported   |  |  |             |

Ground-water levels, Number of Measurements: 0

| 7<br>West<br>1/4 - 1/2 Mile<br>Higher |                    |                | FED USGS        | USGS2242965 |
|---------------------------------------|--------------------|----------------|-----------------|-------------|
| Agency cd:                            | USGS               | Site no:       | 430604078575301 |             |
| Site name:                            | NI 220             |                |                 |             |
| Latitude:                             | 430604             |                |                 |             |
| Longitude:                            | 0785753            | Dec lat:       | 43.10116709     |             |
| Dec lon:                              | -78.96448589       | Coor meth:     | Μ               |             |
| Coor accr:                            | Т                  | Latlong datum: | NAD27           |             |
| Dec latlong datum:                    | NAD83              | District:      | 36              |             |
| State:                                | 36                 | County:        | 063             |             |
| Country:                              | US                 | Land net:      | Not Reported    |             |
| Location map:                         | TONAWANDA W I-05-4 | Map scale:     | 25000           |             |

| Altitude:   | 580                                   | Altitude method:               | M                   |             |
|---|---------------------------------------|--------------------------------|---------------------|-------------|
| Altitude accuracy:                                      | 10                                    | Altitude datum:                | NGVD29              |             |
| Hydrologic:   | Niagara. New York. Area = 774 s       | iq.mi.                         |                     |             |
| Topographic:  | Not Reported                          | Data constructions             | Net Demente d       |             |
| Site type:  | Ground-water other than Spring        | Date construction:             | Not Reported        |             |
| Date inventoried:                                       | Not Reported                          | Mean greenwich time offset:    | EST                 |             |
| Local standard time flag:<br>Type of ground water site: | N<br>Test hole, not completed as a we | .11                            |                     |             |
| Aquifer Type:   | Not Reported                          | -11                            |                     |             |
| Aquifer:  | Not Reported                          |                                |                     |             |
| Well depth:   | Not Reported                          | Hole depth:                    | Not Reported        |             |
| Source of depth data:                                   | Not Reported                          | Project number:                | NY86-16400          |             |
| Real time data flag:                                    | Not Reported                          | Daily flow data begin date:    | Not Reported        |             |
| Daily flow data end date:                               | Not Reported                          | Daily flow data count:         | Not Reported        |             |
| Peak flow data begin date:                              | Not Reported                          | Peak flow data end date:       | Not Reported        |             |
| Peak flow data count:                                   | Not Reported                          | Water quality data begin date: |                     |             |
| Water quality data end date                             | •                                     | Water quality data count:      | Not Reported        |             |
| Ground water data begin da                              |                                       | Ground water data end date:    | Not Reported        |             |
| Ground water data count:                                |                                       |                                |                     |             |
| Ground-water levels, Numb                               | per of Measurements: 0                |                                |                     |             |
| 8<br>WSW<br>1/2 - 1 Mile<br>Lower                       |                                       |                                | FED USGS            | USGS2242941 |
| Lower   |                                       |                                |                     |             |
| Agency cd:  | USGS                                  | Site no:                       | 430553078575301     |             |
| Site name:  | NI 203                                |                                |                     |             |
| Latitude:   | 430553                                |                                |                     |             |
| Longitude:  | 0785753                               | Dec lat:                       | 43.09811156         |             |
| Dec lon:  | -78.96448585                          | Coor meth:                     | M                   |             |
| Coor accr:  | T                                     | Latlong datum:                 | NAD27               |             |
| Dec lationg datum:                                      | NAD83                                 | District:                      | 36                  |             |
| State:  | 36                                    | County:                        | 063<br>Nat Departed |             |
| Country:  |                                       | Land net:                      | Not Reported        |             |
| Location map:<br>Altitude:                              | TONAWANDA W I-05-4<br>573             | Map scale:<br>Altitude method: | 25000<br>M          |             |
| Altitude accuracy:                                      | 10                                    | Altitude datum:                | NGVD29              |             |
| Hydrologic:   | Niagara. New York. Area = 774 s       |                                | NGVD29              |             |
| Topographic:  | Not Reported                          | ·4                             |                     |             |
| Site type:  | Ground-water other than Spring        | Date construction:             | Not Reported        |             |
| Date inventoried:                                       | Not Reported                          | Mean greenwich time offset:    | EST                 |             |
| Local standard time flag:                               | N                                     |                                |                     |             |
| Type of ground water site:                              | Test hole, not completed as a we      | 911                            |                     |             |
| Aquifer Type:   | Not Reported                          |                                |                     |             |
| Aquifer:  | Not Reported                          |                                |                     |             |
| Well depth:   | Not Reported                          | Hole depth:                    | Not Reported        |             |
| Source of depth data:                                   | Not Reported                          | Project number:                | NY86-16400          |             |
| Real time data flag:                                    | Not Reported                          | Daily flow data begin date:    | Not Reported        |             |
| Daily flow data end date:                               | Not Reported                          | Daily flow data count:         | Not Reported        |             |
| Peak flow data begin date:                              | Not Reported                          | Peak flow data end date:       | Not Reported        |             |
| Peak flow data count:                                   | Not Reported                          | Water quality data begin date: | •                   |             |
| Water quality data end date                             |                                       | Water quality data count:      | Not Reported        |             |
| Ground water data begin da                              |                                       | Ground water data end date:    | Not Reported        |             |
| Ground water data count:                                | Not Reported                          |                                |                     |             |

Ground-water levels, Number of Measurements: 0

| Map ID    |
|-----------|
| Direction |
| Distance  |
| Elevation |

| Distance<br>Elevation                 |                                  |                                | Database        | EDR ID Number |
|---------------------------------------|----------------------------------|--------------------------------|-----------------|---------------|
| 9<br>WNW<br>1/2 - 1 Mile<br>Higher    |                                  |                                | FED USGS        | USGS2242786   |
| Agency cd:<br>Site name:<br>Latitude: | USGS<br>NI 232<br>430611         | Site no:                       | 430611078575301 |               |
| Longitude:                            | 0785753                          | Dec lat:                       | 43.10311153     |               |
| Dec Ion:                              | -78.96448592                     | Coor meth:                     | M               |               |
| Coor accr:                            | Т                                | Latlong datum:                 | NAD27           |               |
| Dec latlong datum:                    | NAD83                            | District:                      | 36              |               |
| State:                                | 36                               | County:                        | 063             |               |
| Country:                              | US                               | Land net:                      | Not Reported    |               |
| Location map:                         | TONAWANDA W I-05-4               | Map scale:                     | 25000           |               |
| Altitude:                             | 583                              | Altitude method:               | M               |               |
| Altitude accuracy:                    | 10                               | Altitude datum:                | NGVD29          |               |
| Hydrologic:                           | Niagara. New York. Area = 774 s  | iq.mi.                         |                 |               |
| Topographic:                          | Not Reported                     |                                |                 |               |
| Site type:                            | Ground-water other than Spring   | Date construction:             | Not Reported    |               |
| Date inventoried:                     | Not Reported                     | Mean greenwich time offset:    | EST             |               |
| Local standard time flag:             | N                                |                                |                 |               |
| Type of ground water site:            | Test hole, not completed as a we | 211                            |                 |               |
| Aquifer Type:                         | Not Reported                     |                                |                 |               |
| Aquifer:                              | Not Reported                     |                                |                 |               |
| Well depth:                           | Not Reported                     | Hole depth:                    | Not Reported    |               |
| Source of depth data:                 | Not Reported                     | Project number:                | NY86-16400      |               |
| Real time data flag:                  | Not Reported                     | Daily flow data begin date:    | Not Reported    |               |
| Daily flow data end date:             | Not Reported                     | Daily flow data count:         | Not Reported    |               |
| Peak flow data begin date:            | •                                | Peak flow data end date:       | Not Reported    |               |
| Peak flow data count:                 | Not Reported                     | Water quality data begin date: |                 |               |
| Water quality data end date           |                                  | Water quality data count:      | Not Reported    |               |
| Ground water data begin da            | •                                | Ground water data end date:    | Not Reported    |               |
| Ground water data count:              | Not Reported                     |                                |                 |               |

Ground-water levels, Number of Measurements: 0

| 10<br>WSW<br>1/2 - 1 Mile<br>Lower |                                 |                             | FED USGS        | USGS2242929 |
|------------------------------------|---------------------------------|-----------------------------|-----------------|-------------|
| Agency cd:                         | USGS                            | Site no:                    | 430544078575401 |             |
| Site name:                         | NI 192                          |                             |                 |             |
| Latitude:                          | 430544                          |                             |                 |             |
| Longitude:                         | 0785754                         | Dec lat:                    | 43.09561157     |             |
| Dec lon:                           | -78.9647636                     | Coor meth:                  | Μ               |             |
| Coor accr:                         | Т                               | Latlong datum:              | NAD27           |             |
| Dec latlong datum:                 | NAD83                           | District:                   | 36              |             |
| State:                             | 36                              | County:                     | 063             |             |
| Country:                           | US                              | Land net:                   | Not Reported    |             |
| Location map:                      | TONAWANDA W I-05-4              | Map scale:                  | 25000           |             |
| Altitude:                          | 574                             | Altitude method:            | М               |             |
| Altitude accuracy:                 | 10                              | Altitude datum:             | NGVD29          |             |
| Hydrologic:                        | Niagara. New York. Area = 774 s | sq.mi.                      |                 |             |
| Topographic:                       | Not Reported                    |                             |                 |             |
| Site type:                         | Ground-water other than Spring  | Date construction:          | Not Reported    |             |
| Date inventoried:                  | Not Reported                    | Mean greenwich time offset: | EST             |             |

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Hole depth:

Project number:

Daily flow data begin date:

Peak flow data end date:

Water quality data count:

Ground water data end date:

Water quality data begin date: Not Reported

Daily flow data count:

| Local standard time flag:   | Ν                                |    |
|-----------------------------|----------------------------------|----|
| Type of ground water site:  | Test hole, not completed as a we | ll |
| Aquifer Type:               | Not Reported                     |    |
| Aquifer:                    | Not Reported                     |    |
| Well depth:                 | Not Reported                     | Н  |
| Source of depth data:       | Not Reported                     | Ρ  |
| Real time data flag:        | Not Reported                     | D  |
| Daily flow data end date:   | Not Reported                     | D  |
| Peak flow data begin date:  | Not Reported                     | Ρ  |
| Peak flow data count:       | Not Reported                     | W  |
| Water quality data end date | Not Reported                     | W  |
| Ground water data begin da  | ate: Not Reported                | G  |
| Ground water data count:    | Not Reported                     |    |
|                             |                                  |    |

Ground-water levels, Number of Measurements: 0

#### A11 East 1/2 - 1 Mile Higher

| Agency cd:                  | USGS                                | Site no:                       | 430557078563401 |
|-----------------------------|-------------------------------------|--------------------------------|-----------------|
| Site name:                  | NI 210                              |                                |                 |
| Latitude:                   | 430557                              |                                |                 |
| Longitude:                  | 0785634                             | Dec lat:                       | 43.09922279     |
| Dec lon:                    | -78.94254058                        | Coor meth:                     | M               |
| Coor accr:                  | F                                   | Latlong datum:                 | NAD27           |
| Dec latlong datum:          | NAD83                               | District:                      | 36              |
| State:                      | 36                                  | County:                        | 063             |
| Country:                    | US                                  | Land net:                      | Not Reported    |
| Location map:               | TONAWANDA W I-05-4                  | Map scale:                     | Not Reported    |
| Altitude:                   | Not Reported                        | Altitude method:               | Not Reported    |
| Altitude accuracy:          | Not Reported                        | Altitude datum:                | Not Reported    |
| Hydrologic:                 | Niagara. New York. Area = 774 s     | q.mi.                          |                 |
| Topographic:                | Not Reported                        |                                |                 |
| Site type:                  | Ground-water other than Spring      | Date construction:             | Not Reported    |
| Date inventoried:           | Not Reported                        | Mean greenwich time offset:    | EST             |
| Local standard time flag:   | N                                   |                                |                 |
| Type of ground water site:  | Single well, other than collector o | r Ranney type                  |                 |
| Aquifer Type:               | Not Reported                        |                                |                 |
| Aquifer:                    | Not Reported                        |                                |                 |
| Well depth:                 | Not Reported                        | Hole depth:                    | Not Reported    |
| Source of depth data:       | Not Reported                        | Project number:                | Not Reported    |
| Real time data flag:        | 0                                   | Daily flow data begin date:    | 0000-00-00      |
| Daily flow data end date:   | 0000-00-00                          | Daily flow data count:         | 0               |
| Peak flow data begin date:  | 0000-00-00                          | Peak flow data end date:       | 0000-00-00      |
| Peak flow data count:       | 0                                   | Water quality data begin date: | 1982-10-13      |
| Water quality data end date | :1982-10-13                         | Water quality data count:      | 1               |
| Ground water data begin da  | ate: 0000-00-00                     | Ground water data end date:    | 0000-00-00      |
| Ground water data count:    | 0                                   |                                |                 |
|                             |                                     |                                |                 |

Ground-water levels, Number of Measurements: 0



FED USGS USGS2242947

USGS2242948

Not Reported

NY86-16400

Not Reported

Not Reported

Not Reported

Not Reported

Not Reported

FED USGS

\_\_\_\_\_

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| Agency cd:                  | USGS  | Site no:                       | 430557078563301     |
|-----------------------------|---|--------------------------------|---------------------|
| Site name:                  | NI 209  |                                |                     |
| Latitude:                   | 430557  |                                |                     |
| Longitude:                  | 0785633   | Dec lat:                       | 43.09922279         |
| Dec lon:                    | -78.94226279  | Coor meth:                     | Μ                   |
| Coor accr:                  | Т   | Latlong datum:                 | NAD27               |
| Dec latlong datum:          | NAD83   | District:                      | 36                  |
| State:                      | 36  | County:                        | 063                 |
| Country:                    | US  | Land net:                      | Not Reported        |
| Location map:               | TONAWANDA W I-05-4  | Map scale:                     | 25000               |
| Altitude:                   | 575   | Altitude method:               | Μ                   |
| Altitude accuracy:          | 10  | Altitude datum:                | NGVD29              |
| Hydrologic:                 | Niagara. New York. Area = 774 s   | sq.mi.                         |                     |
| Topographic:                | Not Reported  |                                |                     |
| Site type:                  | Ground-water other than Spring  | Date construction:             | Not Reported        |
| Date inventoried:           | Not Reported  | Mean greenwich time offset:    | EST                 |
| Local standard time flag:   | N   | -                              |                     |
| Type of ground water site:  | Test hole, not completed as a we  | ell                            |                     |
| Aquifer Type:               | Not Reported  |                                |                     |
| Aquifer:                    | Not Reported  |                                |                     |
| Well depth:                 | Not Reported  | Hole depth:                    | Not Reported        |
| Source of depth data:       | Not Reported  | Project number:                | NY86-16400          |
| Real time data flag:        | Not Reported  | Daily flow data begin date:    | Not Reported        |
| Daily flow data end date:   | Not Reported  | Daily flow data count:         | Not Reported        |
| Peak flow data begin date:  | Not Reported  | Peak flow data end date:       | Not Reported        |
| Peak flow data count:       | Not Reported  | Water quality data begin date: | Not Reported        |
| Water quality data end date | Not Reported  | Water quality data count:      | Not Reported        |
| Ground water data begin da  | ate: Not Reported   | Ground water data end date:    | Not Reported        |
| Ground water data count:    | Not Reported  |                                |                     |
|                             |   |                                |                     |
| Ground-water levels, Numb   | er of Measurements: 0   |                                |                     |
| 13                          |   |                                |                     |
| SW                          |   |                                | FED USGS            |
| I/2 - 1 Mile<br>_ower       |   |                                |                     |
| Agency cd:                  | USGS  | Site no:                       | 430531078574601     |
| Site name:                  | NI 178  |                                |                     |
| Latitude:                   | 430531  |                                |                     |
| Longitude:                  | 0785746   | Dec lat:                       | 43.09200049         |
| Dec lon:                    | -78.96254125  | Coor meth:                     | M                   |
| Coor accr:                  | T   | Latlong datum:                 | NAD27               |
| Dec lationg datum:          | NAD83   | District:                      | 36                  |
| State:                      | 36  | County:                        | 063                 |
| Country:                    | US  | Land net:                      | Not Reported        |
| Location map:               | TONAWANDA W I-05-4  | Map scale:                     | 25000               |
| Altitude:                   | 575   | Altitude method:               | M                   |
| Altitude accuracy:          | 10  | Altitude datum:                | NGVD29              |
|                             |   |                                |                     |
| Hvaroloalc:                 |   | a.mi.                          |                     |
| Hydrologic:<br>Topographic: | Niagara. New York. Area = 774 s   | sq.mi.                         |                     |
| Topographic:                | Niagara. New York. Area = 774 s<br>Not Reported                                   |                                | Not Reported        |
| Topographic:<br>Site type:  | Niagara. New York. Area = 774 s<br>Not Reported<br>Ground-water other than Spring | Date construction:             | Not Reported<br>EST |
| Topographic:                | Niagara. New York. Area = 774 s<br>Not Reported                                   |                                | Not Reported<br>EST |

Test hole, not completed as a well

Not Reported

Not Reported

Not Reported

Not Reported

Not Reported

Not Reported

Type of ground water site:

Source of depth data:

Daily flow data end date:

Peak flow data begin date: Not Reported

Real time data flag:

Aquifer Type:

Well depth:

Aquifer:

Hole depth: Not Reported NY86-16400 Project number: Daily flow data begin date: Not Reported Daily flow data count: Not Reported Peak flow data end date: Not Reported

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USGS2242897

Peak flow data count:Not ReportedWater quality data end date:Not ReportedGround water data begin date:Not ReportedGround water data count:Not Reported

Water quality data begin date:Not ReportedWater quality data count:Not ReportedGround water data end date:Not Reported

Ground-water levels, Number of Measurements: 0

| 14<br>WSW<br>1/2 - 1 Mile<br>Lower |                                  |                                | FED USGS        | USGS2242933 |
|------------------------------------|----------------------------------|--------------------------------|-----------------|-------------|
| Agency cd:                         | USGS                             | Site no:                       | 430547078580801 |             |
| Site name:                         | NI 196                           |                                |                 |             |
| Latitude:                          | 430547                           |                                |                 |             |
| Longitude:                         | 0785808                          | Dec lat:                       | 43.09644488     |             |
| Dec lon:                           | -78.96865265                     | Coor meth:                     | Μ               |             |
| Coor accr:                         | Т                                | Latlong datum:                 | NAD27           |             |
| Dec latlong datum:                 | NAD83                            | District:                      | 36              |             |
| State:                             | 36                               | County:                        | 063             |             |
| Country:                           | US                               | Land net:                      | Not Reported    |             |
| Location map:                      | TONAWANDA W I-05-4               | Map scale:                     | 25000           |             |
| Altitude:                          | 563                              | Altitude method:               | M               |             |
| Altitude accuracy:                 | 10                               | Altitude datum:                | NGVD29          |             |
| Hydrologic:                        | Niagara. New York. Area = 774 s  | q.mi.                          |                 |             |
| Topographic:                       | Not Reported                     |                                |                 |             |
| Site type:                         | Ground-water other than Spring   | Date construction:             | Not Reported    |             |
| Date inventoried:                  | Not Reported                     | Mean greenwich time offset:    | EST             |             |
| Local standard time flag:          | N                                |                                |                 |             |
| Type of ground water site:         | Test hole, not completed as a we | 211                            |                 |             |
| Aquifer Type:                      | Not Reported                     |                                |                 |             |
| Aquifer:                           | Not Reported                     |                                |                 |             |
| Well depth:                        | Not Reported                     | Hole depth:                    | Not Reported    |             |
| Source of depth data:              | Not Reported                     | Project number:                | NY86-16400      |             |
| Real time data flag:               | Not Reported                     | Daily flow data begin date:    | Not Reported    |             |
| Daily flow data end date:          | Not Reported                     | Daily flow data count:         | Not Reported    |             |
| Peak flow data begin date:         | Not Reported                     | Peak flow data end date:       | Not Reported    |             |
| Peak flow data count:              | Not Reported                     | Water quality data begin date: |                 |             |
| Water quality data end date        | •                                | Water quality data count:      | Not Reported    |             |
| Ground water data begin da         | •                                | Ground water data end date:    | Not Reported    |             |
| Ground water data count:           | Not Reported                     |                                |                 |             |

Ground-water levels, Number of Measurements: 0

| 15<br>East<br>1/2 - 1 Mile<br>Higher |                    |                | FED USGS        | USGS2242953 |
|--------------------------------------|--------------------|----------------|-----------------|-------------|
| Agency cd:                           | USGS               | Site no:       | 430558078562501 |             |
| Site name:                           | NI 212             |                |                 |             |
| Latitude:                            | 430558             |                |                 |             |
| Longitude:                           | 0785625            | Dec lat:       | 43.09950058     |             |
| Dec Ion:                             | -78.94004048       | Coor meth:     | Μ               |             |
| Coor accr:                           | Т                  | Latlong datum: | NAD27           |             |
| Dec latlong datum:                   | NAD83              | District:      | 36              |             |
| State:                               | 36                 | County:        | 063             |             |
| Country:                             | US                 | Land net:      | Not Reported    |             |
| Location map:                        | TONAWANDA W I-05-4 | Map scale:     | 25000           |             |

| Altitude:                   | 580   | Altitude method:               | Μ               |             |
|-----------------------------|---|--------------------------------|-----------------|-------------|
| Altitude accuracy:          | 10  | Altitude datum:                | NGVD29          |             |
| Hydrologic:                 | Niagara. New York. Area = 774 s                 | q.mi.                          |                 |             |
| Topographic:                | Not Reported                                    |                                |                 |             |
| Site type:                  | Ground-water other than Spring                  | Date construction:             | Not Reported    |             |
| Date inventoried:           | Not Reported                                    | Mean greenwich time offset:    | EST             |             |
| Local standard time flag:   | N   | 0                              |                 |             |
| Type of ground water site:  | Test hole, not completed as a we                | 911                            |                 |             |
| Aquifer Type:               | Not Reported                                    |                                |                 |             |
| Aquifer:                    | Not Reported                                    |                                |                 |             |
| Well depth:                 | Not Reported                                    | Hole depth:                    | Not Reported    |             |
| Source of depth data:       | Not Reported                                    | Project number:                | NY86-16400      |             |
| Real time data flag:        | Not Reported                                    | Daily flow data begin date:    | Not Reported    |             |
| Daily flow data end date:   | Not Reported                                    | Daily flow data count:         | Not Reported    |             |
| Peak flow data begin date:  | •   | Peak flow data end date:       | Not Reported    |             |
| Peak flow data count:       | Not Reported                                    | Water quality data begin date: |                 |             |
| Water quality data end date | •   | Water quality data count:      | Not Reported    |             |
| Ground water data begin da  | •   | Ground water data end date:    | Not Reported    |             |
|                             |   | Ground water data end date.    | Not Reported    |             |
| Ground water data count:    | NOL REPOILED                                    |                                |                 |             |
| Ground-water levels, Numb   | per of Measurements: 0                          |                                |                 |             |
| 16<br>SSE                   |   |                                | FED USGS        | USGS2242890 |
| 1/2 - 1 Mile                |   |                                |                 |             |
| Lower                       |   |                                |                 |             |
| Agency cd:                  | USGS  | Site no:                       | 430524078565601 |             |
| Site name:                  | NI 171  |                                |                 |             |
| Latitude:                   | 430524  |                                |                 |             |
| Longitude:                  | 0785656   | Dec lat:                       | 43.09005614     |             |
| Dec lon:                    | -78.9486518                                     | Coor meth:                     | M               |             |
| Coor accr:                  | T   | Latlong datum:                 | NAD27           |             |
| Dec latlong datum:          | NAD83   | District:                      | 36              |             |
| State:                      | 36  | County:                        | 063             |             |
| Country:                    | US  | Land net:                      | Not Reported    |             |
| Location map:               | TONAWANDA W I-05-4                              | Map scale:                     | 25000           |             |
| Altitude:                   | 574   | Altitude method:               | 23000<br>M      |             |
|                             | 10  |                                | NGVD29          |             |
| Altitude accuracy:          |   | Altitude datum:                | 1101023         |             |
| Hydrologic:<br>Topographic: | Niagara. New York. Area = 774 s<br>Not Reported | .н.,                           |                 |             |
| Site type:                  | •   | Data construction:             | Not Departed    |             |
|                             | Ground-water other than Spring                  | Date construction:             | Not Reported    |             |
| Date inventoried:           | Not Reported                                    | Mean greenwich time offset:    | EST             |             |
| Local standard time flag:   | N   |                                |                 |             |
| Type of ground water site:  | Test hole, not completed as a we                |                                |                 |             |
| Aquifer Type:               | Not Reported                                    |                                |                 |             |
| Aquifer:                    | Not Reported                                    | Llolo donthi                   | Not Departs d   |             |
| Well depth:                 | Not Reported                                    | Hole depth:                    | Not Reported    |             |
| Source of depth data:       | Not Reported                                    | Project number:                | NY86-16400      |             |
| Real time data flag:        | Not Reported                                    | Daily flow data begin date:    | Not Reported    |             |
| Daily flow data end date:   | Not Reported                                    | Daily flow data count:         | Not Reported    |             |
| Peak flow data begin date:  | •   | Peak flow data end date:       | Not Reported    |             |
| Peak flow data count:       | Not Reported                                    | Water quality data begin date: |                 |             |
| Water quality data end date | •   | Water quality data count:      | Not Reported    |             |
| Ground water data begin da  |   |                                |                 |             |
| Ground water data count:    | ate: Not Reported<br>Not Reported               | Ground water data end date:    | Not Reported    |             |

Ground-water levels, Number of Measurements: 0

| evation                     |                                  |                                | Database        | EDR ID Numb |
|-----------------------------|----------------------------------|--------------------------------|-----------------|-------------|
| E<br>- 1 Mile<br>Jher       |                                  |                                | FED USGS        | USGS2242827 |
| Agency cd:                  | USGS                             | Site no:                       | 430647078570201 |             |
| Site name:                  | NI 273                           |                                |                 |             |
| Latitude:                   | 430647                           |                                |                 |             |
| Longitude:                  | 0785702                          | Dec lat:                       | 43.11311155     |             |
| Dec lon:                    | -78.95031884                     | Coor meth:                     | Μ               |             |
| Coor accr:                  | Т                                | Latlong datum:                 | NAD27           |             |
| Dec latlong datum:          | NAD83                            | District:                      | 36              |             |
| State:                      | 36                               | County:                        | 063             |             |
| Country:                    | US                               | Land net:                      | Not Reported    |             |
| Location map:               | TONAWANDA W I-05-4               | Map scale:                     | 25000           |             |
| Altitude:                   | 600                              | Altitude method:               | Μ               |             |
| Altitude accuracy:          | 10                               | Altitude datum:                | NGVD29          |             |
| Hydrologic:                 | Niagara. New York. Area = 774 s  | sq.mi.                         |                 |             |
| Topographic:                | Not Reported                     |                                |                 |             |
| Site type:                  | Ground-water other than Spring   | Date construction:             | Not Reported    |             |
| Date inventoried:           | Not Reported                     | Mean greenwich time offset:    | EST             |             |
| Local standard time flag:   | N                                | -                              |                 |             |
| Type of ground water site:  | Test hole, not completed as a we | ell                            |                 |             |
| Aquifer Type:               | Not Reported                     |                                |                 |             |
| Aquifer:                    | Not Reported                     |                                |                 |             |
| Well depth:                 | Not Reported                     | Hole depth:                    | Not Reported    |             |
| Source of depth data:       | Not Reported                     | Project number:                | NY86-16400      |             |
| Real time data flag:        | Not Reported                     | Daily flow data begin date:    | Not Reported    |             |
| Daily flow data end date:   | Not Reported                     | Daily flow data count:         | Not Reported    |             |
| Peak flow data begin date:  | Not Reported                     | Peak flow data end date:       | Not Reported    |             |
| Peak flow data count:       | Not Reported                     | Water quality data begin date: | Not Reported    |             |
| Water quality data end date | Not Reported                     | Water quality data count:      | Not Reported    |             |
| Ground water data begin da  |                                  | Ground water data end date:    | Not Reported    |             |
| Ground water data count:    | Not Reported                     |                                |                 |             |
| Ground-water levels, Numb   | er of Measurements: 0            |                                |                 |             |

| Higher             |                                 |                             |                 |
|--------------------|---------------------------------|-----------------------------|-----------------|
| Agency cd:         | USGS                            | Site no:                    | 430606078582501 |
| Site name:         | NI 223                          |                             |                 |
| Latitude:          | 430606                          |                             |                 |
| Longitude:         | 0785825                         | Dec lat:                    | 43.10172259     |
| Dec lon:           | -78.97337513                    | Coor meth:                  | Μ               |
| Coor accr:         | Т                               | Latlong datum:              | NAD27           |
| Dec latlong datum: | NAD83                           | District:                   | 36              |
| State:             | 36                              | County:                     | 063             |
| Country:           | US                              | Land net:                   | Not Reported    |
| Location map:      | TONAWANDA W I-05-4              | Map scale:                  | 25000           |
| Altitude:          | 579                             | Altitude method:            | Μ               |
| Altitude accuracy: | 10                              | Altitude datum:             | NGVD29          |
| Hydrologic:        | Niagara. New York. Area = 774 s | sq.mi.                      |                 |
| Topographic:       | Not Reported                    |                             |                 |
| Site type:         | Ground-water other than Spring  | Date construction:          | Not Reported    |
| Date inventoried:  | Not Reported                    | Mean greenwich time offset: | EST             |
|                    |                                 |                             |                 |

Hole depth:

Project number:

Daily flow data begin date:

Peak flow data end date:

Water quality data count:

Ground water data end date:

Water quality data begin date: Not Reported

Daily flow data count:

| Local standard time flag:   | Ν                                |    |
|-----------------------------|----------------------------------|----|
| Type of ground water site:  | Test hole, not completed as a we | ۱I |
| Aquifer Type:               | Not Reported                     |    |
| Aquifer:                    | Not Reported                     |    |
| Well depth:                 | Not Reported                     | Н  |
| Source of depth data:       | Not Reported                     | Ρ  |
| Real time data flag:        | Not Reported                     | D  |
| Daily flow data end date:   | Not Reported                     | D  |
| Peak flow data begin date:  | Not Reported                     | Ρ  |
| Peak flow data count:       | Not Reported                     | V  |
| Water quality data end date | Not Reported                     | V  |
| Ground water data begin da  | ate: Not Reported                | G  |
| Ground water data count:    | Not Reported                     |    |
|                             |                                  |    |

Ground-water levels, Number of Measurements: 0

#### 19 NNE 1/2 - 1 Mile Higher

| -                           |                                  |                                |              |
|-----------------------------|----------------------------------|--------------------------------|--------------|
| Agency cd:                  | USGS                             | Site no:                       | 430645078565 |
| Site name:                  | NI 267                           |                                |              |
| Latitude:                   | 430645                           |                                |              |
| Longitude:                  | 0785650                          | Dec lat:                       | 43.11255602  |
| Dec lon:                    | -78.94698537                     | Coor meth:                     | M            |
| Coor accr:                  | Т                                | Latlong datum:                 | NAD27        |
| Dec latlong datum:          | NAD83                            | District:                      | 36           |
| State:                      | 36                               | County:                        | 063          |
| Country:                    | US                               | Land net:                      | Not Reported |
| Location map:               | TONAWANDA W I-05-4               | Map scale:                     | 25000        |
| Altitude:                   | 595                              | Altitude method:               | Μ            |
| Altitude accuracy:          | 100                              | Altitude datum:                | NGVD29       |
| Hydrologic:                 | Niagara. New York. Area = 774 s  | q.mi.                          |              |
| Topographic:                | Not Reported                     |                                |              |
| Site type:                  | Ground-water other than Spring   | Date construction:             | Not Reported |
| Date inventoried:           | Not Reported                     | Mean greenwich time offset:    | EST          |
| Local standard time flag:   | N                                | -                              |              |
| Type of ground water site:  | Test hole, not completed as a we | 11                             |              |
| Aquifer Type:               | Not Reported                     |                                |              |
| Aquifer:                    | Not Reported                     |                                |              |
| Well depth:                 | Not Reported                     | Hole depth:                    | Not Reported |
| Source of depth data:       | Not Reported                     | Project number:                | NY86-16400   |
| Real time data flag:        | Not Reported                     | Daily flow data begin date:    | Not Reported |
| Daily flow data end date:   | Not Reported                     | Daily flow data count:         | Not Reported |
| Peak flow data begin date:  | Not Reported                     | Peak flow data end date:       | Not Reported |
| Peak flow data count:       | Not Reported                     | Water quality data begin date: | Not Reported |
| Water quality data end date | Not Reported                     | Water quality data count:      | Not Reported |
| Ground water data begin da  | •                                | Ground water data end date:    | Not Reported |
| Ground water data count:    | Not Reported                     |                                | •            |
|                             |                                  |                                |              |

Ground-water levels, Number of Measurements: 0

20 South 1/2 - 1 Mile Lower

FED USGS USGS2242879

45078565001

USGS2242822

Not Reported

NY86-16400

Not Reported

Not Reported

Not Reported

Not Reported

Not Reported

FED USGS

| Agency cd:                  | USGS                             | Site no:                                    | 430511078572101 |  |  |
|-----------------------------|----------------------------------|---|-----------------|--|--|
| Site name:                  | NI 144                           |   |                 |  |  |
| Latitude:                   | 430511                           |   |                 |  |  |
| Longitude:                  | 0785721                          | Dec lat:                                    | 43.08644501     |  |  |
| Dec lon:                    | -78.95559646                     | Coor meth:                                  | Μ               |  |  |
| Coor accr:                  | Т                                | Latlong datum:                              | NAD27           |  |  |
| Dec latlong datum:          | NAD83                            | District:                                   | 36              |  |  |
| State:                      | 36                               | County:                                     | 063             |  |  |
| Country:                    | US                               | Land net:                                   | Not Reported    |  |  |
| Location map:               | TONAWANDA W I-05-4               | Map scale:                                  | 25000           |  |  |
| Altitude:                   | 573                              | Altitude method:                            | Μ               |  |  |
| Altitude accuracy:          | 10                               | Altitude datum:                             | NGVD29          |  |  |
| Hydrologic:                 | Niagara. New York. Area = 774 s  | sq.mi.                                      |                 |  |  |
| Topographic:                | Not Reported                     |   |                 |  |  |
| Site type:                  | Ground-water other than Spring   | Date construction:                          | Not Reported    |  |  |
| Date inventoried:           | Not Reported                     | Mean greenwich time offset:                 | EST             |  |  |
| Local standard time flag:   | N                                |   |                 |  |  |
| Type of ground water site:  | Test hole, not completed as a we | ell   |                 |  |  |
| Aquifer Type:               | Not Reported                     |   |                 |  |  |
| Aquifer:                    | Not Reported                     |   |                 |  |  |
| Well depth:                 | Not Reported                     | Hole depth:                                 | Not Reported    |  |  |
| Source of depth data:       | Not Reported                     | Project number:                             | NY86-16400      |  |  |
| Real time data flag:        | Not Reported                     | Daily flow data begin date:                 | Not Reported    |  |  |
| Daily flow data end date:   | Not Reported                     | Daily flow data count:                      | Not Reported    |  |  |
| Peak flow data begin date:  | Not Reported                     | Peak flow data end date:                    | Not Reported    |  |  |
| Peak flow data count:       | Not Reported                     | Water quality data begin date: Not Reported |                 |  |  |
| Water quality data end date | Not Reported                     | orted Water quality data count:             |                 |  |  |
| Ground water data begin da  | •                                | Ground water data end date:                 | Not Reported    |  |  |
| Ground water data count:    | Not Reported                     |   |                 |  |  |
|                             |                                  |   |                 |  |  |
| Ground-water levels, Numb   | per of Measurements: 0           |   |                 |  |  |
|                             |                                  |   |                 |  |  |
| 21                          |                                  |   |                 |  |  |
| NW                          |                                  |   | FED USGS        |  |  |
| 1/2 - 1 Mile                |                                  |   |                 |  |  |
| Higher                      |                                  |   |                 |  |  |
| Agency cd:                  | USGS                             | Site no:                                    | 430641078580201 |  |  |
| Site name:                  | NI 263                           |   |                 |  |  |
| Latitude:                   | 430641                           |   |                 |  |  |
| Longitude:                  | 0785802                          | Dec lat:                                    | 43.1114448      |  |  |
| Dec lon:                    | -78.96698613                     | Coor meth:                                  | Μ               |  |  |
| Coor accr:                  | т                                | Latlong datum:                              | NAD27           |  |  |
| Dec latlong datum:          | NAD83                            | District: 36                                |                 |  |  |

| H                     | igher                      |                                  |                             |                 |  |
|-----------------------|----------------------------|----------------------------------|-----------------------------|-----------------|--|
|                       | Agency cd:                 | USGS                             | Site no:                    | 430641078580201 |  |
|                       | Site name:                 | NI 263                           |                             |                 |  |
|                       | Latitude:                  | 430641                           |                             |                 |  |
|                       | Longitude:                 | 0785802                          | Dec lat:                    | 43.1114448      |  |
|                       | Dec lon:                   | -78.96698613                     | Coor meth:                  | Μ               |  |
|                       | Coor accr:                 | т                                | Latlong datum:              | NAD27           |  |
|                       | Dec latlong datum:         | NAD83                            | District:                   | 36              |  |
|                       | State:                     | 36                               | County:                     | 063             |  |
|                       | Country:                   | US                               | Land net:                   | Not Reported    |  |
|                       | Location map:              | TONAWANDA W I-05-4               | Map scale:                  | 25000           |  |
|                       | Altitude:                  | 586                              | Altitude method:            | Μ               |  |
| Altitude accuracy: 10 |                            | Altitude datum: NGVD29           |                             |                 |  |
|                       | Hydrologic:                | Niagara. New York. Area = 774 s  | iq.mi.                      |                 |  |
|                       | Topographic:               | Not Reported                     |                             |                 |  |
|                       | Site type:                 | Ground-water other than Spring   | Date construction:          | Not Reported    |  |
|                       | Date inventoried:          | Not Reported                     | Mean greenwich time offset: | EST             |  |
|                       | Local standard time flag:  | N                                |                             |                 |  |
|                       | Type of ground water site: | Test hole, not completed as a we | 211                         |                 |  |
|                       | Aquifer Type:              | Not Reported                     |                             |                 |  |
|                       | Aquifer:                   | Not Reported                     |                             |                 |  |
|                       | Well depth:                | Not Reported                     | Hole depth:                 | Not Reported    |  |
|                       | Source of depth data:      | Not Reported                     | Project number:             | NY86-16400      |  |
|                       | Real time data flag:       | Not Reported                     | Daily flow data begin date: | Not Reported    |  |
|                       | Daily flow data end date:  | Not Reported                     | Daily flow data count:      | Not Reported    |  |
|                       | Peak flow data begin date: | Not Reported                     | Peak flow data end date:    | Not Reported    |  |
|                       |                            |                                  |                             |                 |  |

USGS2242816

Peak flow data count:Not ReportedWater quality data end date:Not ReportedGround water data begin date:Not ReportedGround water data count:Not Reported

Water quality data begin date:Not ReportedWater quality data count:Not ReportedGround water data end date:Not Reported

Ground-water levels, Number of Measurements: 0

### AREA RADON INFORMATION

### State Database: NY Radon

### Radon Test Results

| Zip   | Num Sites | < 4 Pci/L   | >= 4 Pci/L | >= 20 Pci/L | Avg > 4 Pci/L | Max Pci/L |
|-------|-----------|-------------|------------|-------------|---------------|-----------|
|       |           |             |            |             |               |           |
| 14304 | 118       | 111 (94.1%) | 7 (5.9%)   | 0 (0%)      | 1.25          | 10.6      |

Federal EPA Radon Zone for NIAGARA 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 NIAGARA COUNTY, NY

Number of sites tested: 177

| Area        | Average Activity | % <4 pCi/L | % 4-20 pCi/L | % >20 pCi/L |
|-------------|------------------|------------|--------------|-------------|
| Living Area | 0.800 pCi/L      | 98%        | 2%           | 0%          |
| Basement    | 1.130 pCi/L      | 95%        | 5%           | 0%          |

### **TOPOGRAPHIC INFORMATION**

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

### Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

### HYDROLOGIC INFORMATION

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: Freshwater Wetlands

Source: Department of Environmental Conservation Telephone: 518-402-8961

### HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> 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.

### 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

New York Public Water Wells Source: New York Department of Health Telephone: 518-458-6731

### **OTHER STATE DATABASE INFORMATION**

### RADON

#### State Database: NY Radon

Source: Department of Health Telephone: 518-402-7556 Radon Test Results

### Area Radon Information

Source: USGS Telephone: 703-356-4020 The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

### **EPA Radon Zones**

Source: EPA Telephone: 703-356-4020 Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

### OTHER

Airport Landing Facilities: Private and public use landing facilities Source: Federal Aviation Administration, 800-457-6656

**Epicenters:** World earthquake epicenters, Richter 5 or greater Source: Department of Commerce, National Oceanic and Atmospheric Administration

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

### STREET AND ADDRESS INFORMATION

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Fax To: CH2M Hill Contact: Mary Beth Jacques Fax : 404-229-9152 Date: 07/13/2006

# EDR PUR-IQ<sup>®</sup> Report

"the intelligent way to conduct historical research"

### for Niagara Falls USARC/AMSA 76, NY 9400 PORTER ROAD NIAGARA FALLS, NY 14304 Lat./Long. 43.10020 / 78.95490 EDR Inquiry # 01714247.26r

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<sup>®</sup> 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 Niagara County, NY. 2. Fire Insurance Map: When you order online any EDR Package or the EDR Radius Map with EDR Sanborn Map Search/Print, you receive site specific Sanborn Map coverage information at no charge. 3. Aerial Photograph: Aerial photography coverage may exist for portions of Niagara County. Please contact your EDR Account Executive for information about USGS photos available through EDR. 4. Topographic Map: The USGS 7.5 min. guad topo sheet(s) associated with this site: Historical: Coverage exists for Niagara County TP | 1980 | 43078-A8 Tonawanda West, NY Current: Target Property:

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 NIAGARA FALLS, NY. These collections may be located in multiple libraries throughout the country. To ensure maximum coverage, EDR will often assign researchers at these multiple locations on your behalf. Please call or fax your EDR representative to authorize a search.



# **EDR - HISTORICAL SOURCE(S) ORDER FORM**

**CH2M Hill Mary Beth Jacques** Account # 1592163

Niagara Falls USARC/AMSA 76, NY 9400 PORTER ROAD NIAGARA FALLS, NY 14304 **Niagara County** Lat./Long. 43.10020 / 78.95490 EDR Inquiry # 01714247.26r

Should you wish to change or add to your order, fax this form to your EDR account executive:

Bart Sobieralski Ph: 1-800-352-0050 Fax: 1-800-231-6802

### Reports

- \_\_\_\_ EDR Sanborn Map<sup>®</sup> Search/Print
- EDR Fire Insurance Map Abstract
- \_\_\_\_ EDR Multi-Tenant Retail Facility® Report
- \_\_\_\_ EDR City Directory Abstract
- EDR Aerial Photo Decade Package
- \_\_\_\_ USGS Aerial 5 Package
- \_\_\_\_ USGS Aerial 3 Package
- \_\_\_\_ EDR Historical Topographic Maps
- \_\_\_\_ Paper Current USGS Topo (7.5 min.)
- Environmental Lien Search
- Chain of Title Search
- \_ NJ MacRaes Industrial Directory Report
- \_\_\_\_ EDR Telephone Interview

### Shipping:

- Email
- \_ Express, Next Day Delivery

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



"Linking Technology with Tradition"®

# Sanborn® Map Report

| Ship To:                | Mary Beth . | Jacques       | Order D  | ate:   | 7/12/20 | 06   | Comple  | tion Date: | 7/12/2006 |
|-------------------------|-------------|---------------|----------|--------|---------|------|---------|------------|-----------|
|                         | CH2M Hill   |               | Inquiry  | #:     | 171424  | 7.27 |         |            |           |
|                         | 1569 Stamp  | mill Way      | P.O. #:  |        | NA      |      |         |            |           |
| Lawrenceville, GA 30043 |             | lle, GA 30043 | Site Nar | me:    | Niagara | Fall | s USAR( | C/AMSA 76  | 5, NY     |
|                         |             |               | ŀ        | Addre  | ess:    | 940  | ) PORTE | ER ROAD    |           |
| Customer                | Project:    | NA            | C        | City/S | State:  | NIA  | GARA F  | FALLS, NY  | 14304     |
| 1592163BA               | S           | 770-338-1589  | C        | Cross  | s Stree | ts:  |         |            |           |

This document reports that the largest and most complete collection of Sanborn fire insurance maps has been reviewed based on client supplied information, and fire insurance maps depicting the target property at the specified address were not identified.

# **NO COVERAGE**

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# The EDR-City Directory Abstract

Niagara Falls USARC/AMSA 76, NY 9400 PORTER ROAD NIAGARA FALLS, NY 14304

Inquiry Number: 1714247.30

Monday, July 24, 2006

# The Standard in Environmental Risk Management Information

440 Wheelers Farms Road Milford, Connecticut 06461

# Nationwide Customer Service

 Telephone:
 1-800-352-0050

 Fax:
 1-800-231-6802

 Internet:
 www.edrnet.com

# **EDR City Directory Abstract**

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening report designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

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

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### SUMMARY

### • City Directories:

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1961 through 2005. (These years are not necessarily inclusive.) A summary of the information obtained is provided in the text of this report.

### Date EDR Searched Historical Sources: July 24, 2006

#### Target Property:

9400 PORTER ROAD NIAGARA FALLS, NY 14304

| <u>Year</u> | <u>Uses</u>                                  | <u>Source</u>                |
|-------------|--|------------------------------|
| 1961        | Address Not Listed in Research Source        | Polk's City Directory        |
| 1966        | Address Not Listed in Research Source        | Polk's City Directory        |
| 1970        | Address Not Listed in Research Source        | Polk's City Directory        |
| 1975        | Armed Forces Reserve Center of Niagara Falls | Polk's City Directory        |
| 1980        | Armed Forces Reserve Center of Niagara Falls | Polk's City Directory        |
| 1985        | Armed Forces Reserve Center of Niagara Falls | Polk's City Directory        |
| 1990        | Armed Forces Reserve Center of Niagara Falls | Polk's City Directory        |
| 1995        | Address Not Listed in Research Source        | Haines Criss-Cross Directory |
| 2000        | Address Not Listed in Research Source        | Haines Criss-Cross Directory |
| 2005        | Address Not Listed in Research Source        | Haines Criss-Cross Directory |

### Adjoining Properties

### SURROUNDING

Multiple Addresses NIAGARA FALLS, NY 14304

| <u>Year</u><br>1961 | <u>Uses</u><br>Address Not Listed in Research Source | <u>Source</u><br>Polk's City Directory |
|---------------------|--|--|
| 1966                | Address Not Listed in Research Source                | Polk's City Directory                  |
| 1970                | Address Not Listed in Research Source                | Polk's City Directory                  |
| 1975                | Address Not Listed in Research Source                | Polk's City Directory                  |
| 1980                | Address Not Listed in Research Source                | Polk's City Directory                  |
| 1985                | Address Not Listed in Research Source                | Polk's City Directory                  |

| <u>Year</u> | <u>Uses</u>                           | <u>Source</u>                |
|-------------|---------------------------------------|------------------------------|
| 1990        | Address Not Listed in Research Source | Polk's City Directory        |
| 1995        | Address Not Listed in Research Source | Haines Criss-Cross Directory |
| 2000        | Address Not Listed in Research Source | Haines Criss-Cross Directory |
| 2005        | Address Not Listed in Research Source | Haines Criss-Cross Directory |

# The EDR Aerial Photo Decade Package

Niagara Falls USARC/AMSA 76, NY 9400 PORTER ROAD NIAGARA FALLS, NY 14304

Inquiry Number: 1714247.29

July 31, 2006

# The Standard in Environmental Risk Management Information

440 Wheelers Farms Road Milford, Connecticut 06461

## **Nationwide Customer Service**

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1-800-352-0050 1-800-231-6802 www.edrnet.com



**EDR**<sup>®</sup> Environmental Data Resources Inc

# **EDR Aerial Photo Decade Package**

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDRs professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

This document reports that EDR searched its own collection or select outside repository collections of aerial photography, and based on client-supplied target property information, aerial photography, including the target property was not deemed reasonably ascertainable by Environmental Data Resources, Inc. (EDR). This no coverage determination reflects a search only of aerial photography repository collections that EDR accessed. It can not be concluded from this search that no coverage for the target property exists anywhere, in any collection.

# **NO COVERAGE**

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

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EDR Historical Topographic Map Report

Niagara Falls USARC/AMSA 76, NY 9400 PORTER ROAD NIAGARA FALLS, NY 14304

Inquiry Number: 1714247.28

July 13, 2006

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# **EDR Historical Topographic Map Report**

Environmental Data Resources, Inc.'s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900's.

#### Thank you for your business.

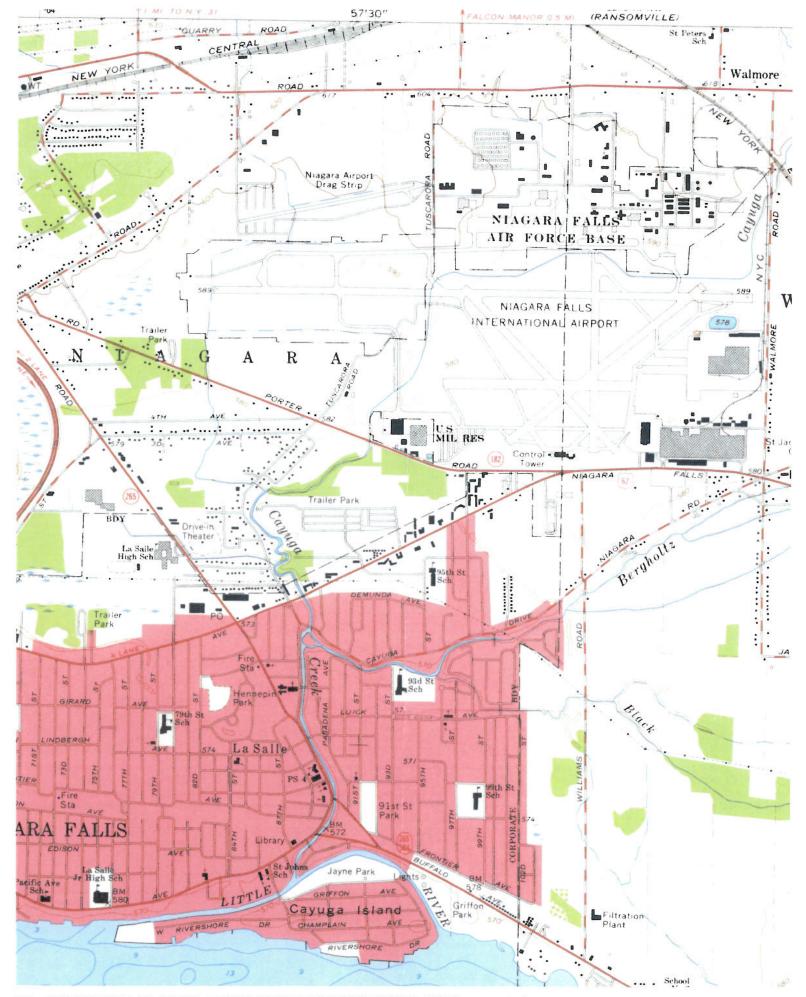
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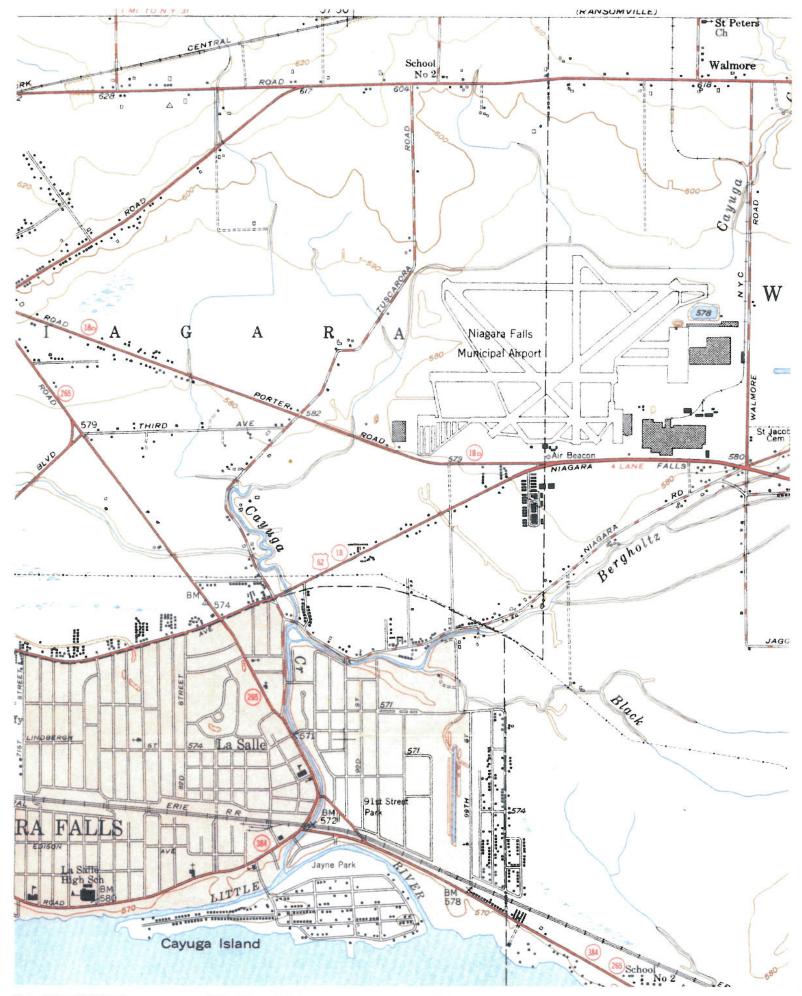
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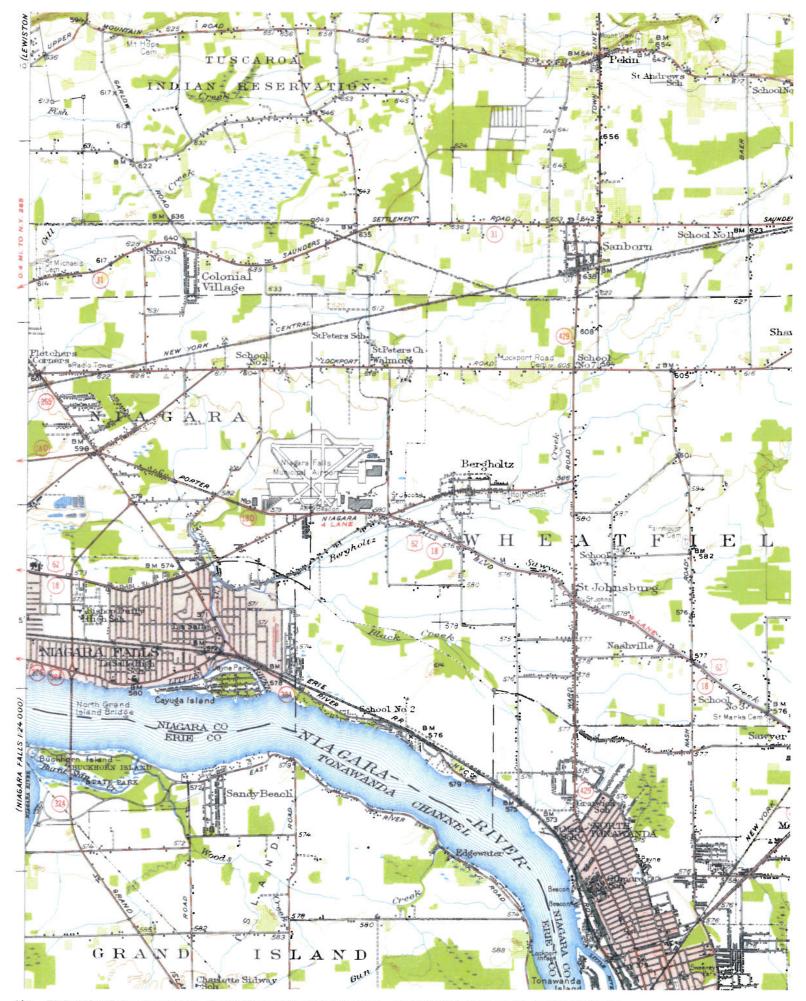
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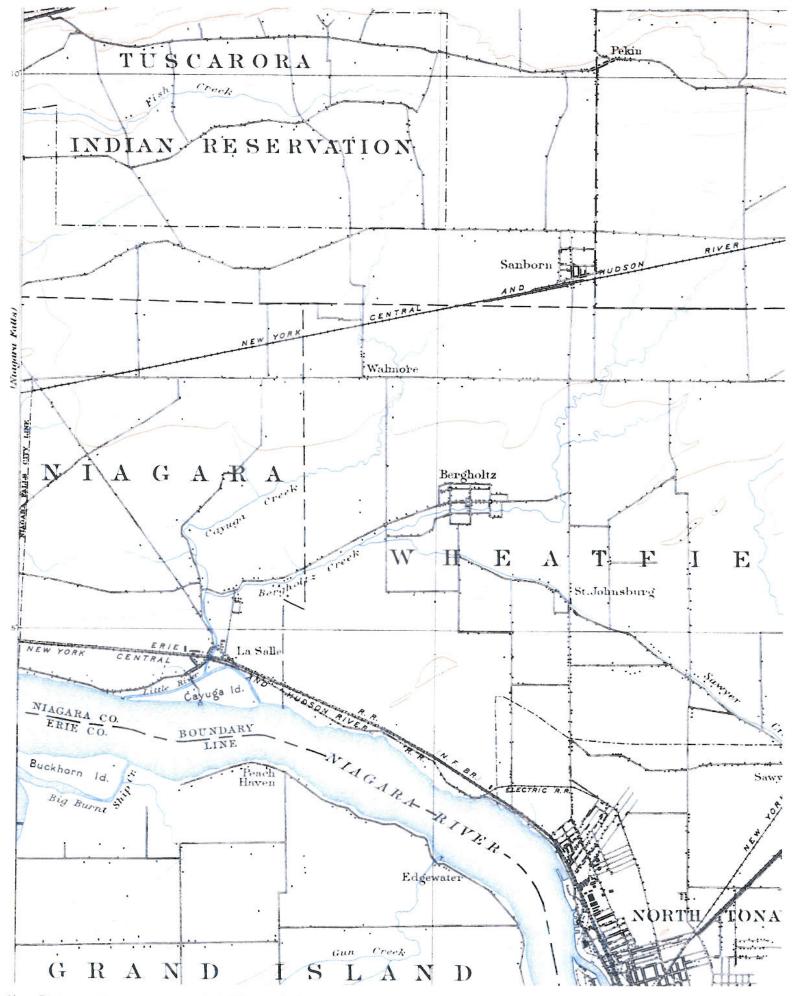


N^ EDR INQUIRY# 1714247.28 TARGET QUAD: TONAWANDAWEST YEAR: 1965 Series: 7.5' Scale: 1:24,000





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