FINAL

ENVIRONMENTAL CONDITION OF PROPERTY REPORT

PAUL J. SUTCOVOY
U.S. ARMY RESERVE CENTER (CT010)
LYDIA STREET EXTENSION
WATERBURY, CT 06705

Prepared For:

U.S. Army Corps of Engineers – Louisville District
Engineering Division – Environmental Engineering Branch
600 Dr. Martin Luther King, Jr. Place
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MARCH 2007

CERTIFICATION

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

GARY PURYEAR **DATE**
Chief, Environmental Division
94th Regional Readiness Command

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

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

Executive Summary

CH2M HILL, under contract to the U.S. Army Corps of Engineers, Louisville District, has prepared this Environmental Condition of Property (ECP) Report for the Paul J. Sutcovoy U.S. Army Reserve (USAR) Center (Facility ID CT010), hereafter referred to as the "Property" or "USAR Center." The Property is located at Lydia Street Extension, Waterbury, New Haven County, Connecticut, 06705, and encompasses approximately 7 acres. This ECP Report was conducted in conformance with the Department of Defense's Base Redevelopment and Realignment Manual, DoD 4165.77-M (BRRM), Army Regulation 200-1, and the American Society for Testing and Materials (ASTM) Designation D 6008-96 (2005), *Standard Practice for Conducting Environmental Baseline Surveys*.

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

The USAR Center is located on approximately 7 acres of land with two permanent structures: an L-shaped building housing a drill hall and administrative offices and an organizational maintenance shop (OMS). The USAR Center is currently occupied by the 2nd Battalion 417th Regiment of the 98th Division and the 325th Military Intelligence Unit. The property was purchased by the U.S. Government in 1957 and has been occupied by the USAR Center since the current buildings were constructed in 1958.

Based on a review of aerial photographs, Sanborn maps, and U.S. Geological Survey (USGS) topographical maps dating back to 1922, the Property appears to have been part of the Porter Homes Federal Housing Project prior to the 1957 land acquisition by the U.S. Government. The Property was purchased by the U.S. Government in 1957 and has been occupied by the USAR Center since the current buildings were constructed in 1958.Areas of potential environmental concern were reviewed and CH2M HILL found the following:

- Two Number 2 fuel oil underground storage tanks (one 10,000-gallon and one 1,000-gallon) that are currently disconnected, but still buried at the USAR Center
- A 1,000-gallon waste oil tank was removed from the south side of the OMS shop, with soil contamination attributed to a limited release, but the tank has No Further Action (NFA) status
- Approximately 60 to 160 gallons of No. 2 fuel oil spilled onto the floor of the boiler room relating to the environmental condition of the Property

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

Contents

Section **Page**

Executive Summary ..... **iii**
Abbreviations and Acronyms ..... **ix**
1 Introduction **1-1**
1.1 Purpose of Environmental Condition of Property (ECP) 1-1
1.2 Scope of Services 1-2
2 Site Location and Physical Description **2-1**
2.1 Site Location 2-1
2.2 Asset Information 2-1
2.3 Physical Description 2-1
2.4 Site Hydrology and Geology 2-2
2.4.1 Surface Water Characteristics 2-2
2.4.2 Hydrogeological Characteristics 2-3
2.5 Site Utilities 2-3
2.6 Water Supply Wells and Septic Systems 2-4
3 Site History **3-1**
3.1 History of Ownership 3-1
3.2 Past Uses and Operations 3-1
3.3 Past Use, Storage, Disposal, and Release of Hazardous Substances 3-3
3.3.1 Past Use and Storage of Hazardous Substances 3-3
3.3.2 Past Disposal and Release of Hazardous Substances 3-3
3.4 Past Presence of Bulk Petroleum Storage Tanks 3-4
3.5 Review of Previous Environmental Reports 3-5
3.5.1 1990 Underground Storage Tank Removal and Replacement 3-5
3.5.2 1992 Compliance Assessment Report 3-5
3.5.3 1994 Underground Storage Tank Closure 3-6
3.5.4 1996 CT010 Floor and Storm Drain, and Natural Resources Reports 3-6
3.5.5 1994 Report of Petroleum Product Discharge, Spillage or Release 3-6
3.5.6 1995 Historic Resources Inventory 3-6
3.5.7 1998 Asbestos Survey and Operations and Maintenance Plan 3-6
3.5.8 1999 Stormwater Pollution Prevention Plan 3-7
3.5.9 Connecticut Project Facilities Report, Date Unknown 3-7
4 Adjacent Properties **4-1**
4.1 Land Uses 4-1
4.2 Findings 4-1
5 Review of Regulatory Information **5-1**
5.1 Federal Environmental Records 5-1
5.1.1 Federal National Priorities List Sites within 1 Mile 5-1
5.1.2 Federal Comprehensive Environmental Response, Compensation and Liability Act Information Systems Sites within 0.5 Mile 5-1
5.1.3 Resource Conservation and Recovery Act Corrective Action Sites within 1 Mile 5-2

5.1.4 Federal RCRA Small and Large Quantity Generators List within 0.25 Mile 5-2
5.1.5 Federal Emergency Response Notification System List 5-3
5.2 State and Local Environmental Records 5-3
5.2.1 State Lists of Hazardous Waste Sites within 1 Mile 5-3
5.2.2 Site Discovery and Assessment Database within 0.5 Mile 5-3
5.2.3 State-Registered Leaking UST (LUST) Sites within 0.5 Mile 5-4
5.2.4 CT Leachate and Waste Water Discharge (LWDS) Inventory Data Layer 5-4
5.2.5 State-Registered UST Sites within 0.5 Mile 5-5
5.2.6 Connecticut Manifest List 5-5
5.2.7 Records Contaminated Public Wells 5-6
5.3 Unmapped Sites 5-6
5.4 Summary of Properties Evaluated to Determine Risk to the Property 5-7
6 Site Investigation and Review of Hazards 6-1
6.1 USTs/ASTs 6-1
6.2 Inventory of Chemicals/Hazardous Substances 6-1
6.3 Waste Disposal Sites 6-2
6.4 Pits, Sumps, Drywells, and Catch Basins 6-2
6.5 Asbestos-Containing Material (ACM) 6-3
6.6 Polychlorinated Biphenyl (PCB)-containing Equipment 6-3
6.7 Lead-based Paint (LBP) 6-3
6.8 Radon 6-3
6.9 Munitions and Explosives of Concern (MEC) 6-4
6.10 Radioactive Materials 6-4
7 Review of Special Resources 7-1
7.1 Land Use 7-1
7.2 Coastal Zone Management 7-1
7.3 Wetlands 7-1
7.4 100-year Flood Plain 7-1
7.5 Natural Resources 7-1
7.6 Cultural Resources 7-1
8 Conclusions 8-1
8.1 Review of Findings 8-1
8.2 Environmental Condition of Property 8-2
9 References 9-1

Appendixes

A Figures
- 1 General Site Location Map
- 2 Site Layout Plan
- 3 100-year flood Map
- 4 1922 Sanborn Map
- 5 1950 Sanborn Map
- 6 1955 Aerial Photograph
- 7 1956 Sanborn Map
- 8 1959 Sanborn Map
- 9 1955 USGS 7.5-Minute Topographic Map, Waterbury, Connecticut
- 10 1963 Aerial Photograph
- 11 1963 Sanborn Map
- 12 1967 Sanborn Map
- 13 1968 USGS 7.5-Minute Topographic Map, Waterbury, Connecticut
- 14 1972 Sanborn Map
- 15 1972 USGS 7.5-Minute Topographic Map, Waterbury, Connecticut
- 16 1975 Aerial Photograph
- 17 1977 Sanborn Map
- 18 1980 Aerial Photograph
- 19 1984 USGS 7.5-Minute Topographic Map, Waterbury, Connecticut
- 20 1991 Aerial Photograph
- 21 National Wetlands Inventory Map

B Site Reconnaissance Photographs

C Property Acquisition Documents & Chain of Title Report

D Previous Environmental Site Assessment Reports

E Regulatory Database Search Report

Tables

1 List of Properties Adjacent to Paul J. Sutcovoy USAR Center, Waterbury, Connecticut....4-1
2 Federal RCRA SQG within 0.25 miles Near Paul J. Sutcovoy USAR Center, Waterbury, CT. 5-3
3 Leaking Underground Storage Tank Sites Near Paul J. Sutcovoy USAR Center, Waterbury, CT....5-4
4 Connecticut LWDS Near Paul J. Sutcovoy USAR Center, Waterbury, CT. 5-4
5 State Registered UST Sites Near Paul J. Sutcovoy USAR Center, Waterbury, CT. 5-5
6 Connecticut Manifest Near Paul J. Sutcovoy USAR Center, Waterbury, CT....5-6
7 Properties Evaluated for Potential Environmental Risks Paul J. Sutcovoy USAR Center, Waterbury, CT....5-7

Abbreviations and Acronyms

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

ACM	asbestos-containing material
AMSA	Area Maintenance and Support Activity
AR	Army regulation
AST	aboveground storage tank
ASTM	American Society for Testing and Materials
bgs	below ground surface
BRAC	Base Realignment and Closure
BRRM	Base Redevelopment and Realignment Manual
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	CERCLA Information System
CESQG	conditionally exempt small quantity generator
CFR	Code of Federal Regulations
CORRACTS	RCRA corrective action
DEP	Department of Environmental Protection (Connecticut)
DoD	Department of Defense
ECP	environmental condition of property
EDR	Environmental Data Resources, Inc.
FEMA	Federal Emergency Management Agency
FINDS	Federal Index System/Facility Registry System
kg	kilogram
LBP	lead-based paint
LQG	large quantity generator
LUST	leaking underground storage tank
LWDS	Leachate and Waste Water Discharge
MEC	munitions and explosives of concern
msl	mean sea level

NBC	nuclear, biological, and/or chemical
NDIR	Non-Dispersive Infrared
NFA	No Further Action
NPL	National Priorities List
OMS	organizational maintenance shop
OWS	oil/water separator
PCB	polychlorinated biphenyl
pCi/L	picoCuries per liter of air
PID	Photo Ionization Detector
POL	petroleum, oil, and lubricant
ppm	parts per million
RCRA	Resource Conservation and Recovery Act
RQ	reportable quantity
RRC	Regional Readiness Command
SDADB	Site Discovery and Assessment Database
SHWS	State Hazardous Waste Site
SQG	small-quantity generator
TPH	total petroleum hydrocarbons
TSD	treatment, storage, or disposal
USACE	U.S. Army Corps of Engineers
USAR	U.S. Army Reserve
USEPA	U.S. Environmental Protection Agency
USGS	U.S. Geological Survey
UST	underground storage tank
VOC	volatile organic compound

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 Paul J. Sutcovoy U.S. Army Reserve (USAR) Center (CT010). The facility is located at Lydia Street Extension, Waterbury, New Haven County, Connecticut, 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 (that is, no sampling was conducted) reconnaissance of the Property was conducted on September 8, 2006 in support of the ECP. The reconnaissance purpose was to obtain visual 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 from others; interviews with individuals purporting to be familiar with the Property; and observations from a site reconnaissance. The accuracy of the information obtained from these sources was not verified by CH2M HILL. As such, CH2M HILL will make no warranty, expressed or implied, relative to the accuracy, completeness, or reliability of the information used to create the records and reports prepared by others.

1.1 Purpose of Environmental Condition of Property (ECP)

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

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

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

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

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

1.2 Scope of Services

This ECP report covers the 6.9-acre USAR Center located at Lydia Street, Waterbury, Connecticut. The Property is bordered by residential properties to the east, west and north and commercial properties at the base of the bluff which borders the southern side. All site maps, figures, and aerial photographs referenced herein are provided in Appendix A, while Appendix B contains the photographs taken during the September 8, 2006 site reconnaissance. Appendix C contains the Property warranty deeds and chain of title information, and lease or permit agreements if applicable. Relevant historical environmental documents and reports are provided in Appendix D, while Appendix E contains the Environmental Data Resources, Inc. (EDR) radius search reports commissioned for this effort.

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

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

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

2 Site Location and Physical Description

2.1 Site Location

The USAR Center is located in New Haven County, on the east side of the city of Waterbury, Connecticut, at Lydia Street Extension. The 6.9-acre parcel is situated on a bluff overlooking Meriden Street north of the Mad River. The USAR Center is surrounded on most sides by residential development.

2.2 Asset Information

Facility Name and Address:	Paul J. Sutcovoy U.S. Army Reserve Center Lydia Street Extension Waterbury, Connecticut
Property Owner:	U.S. Government
Date of Ownership:	January 12, 1957
Current Occupant:	2nd Battalion 417th Regiment of the 98th Division, Company B of the 325th Military Intelligence Battalion.
Zoning:	CA- Highway Commercial
County, State:	New Haven, Connecticut
USGS Quadrangle(s):	Waterbury, Connecticut
Latitude/longitude:	41º32'53"N; 73º01'01"W

2.3 Physical Description

The USAR Center is located on a 6.9-acre parcel on the eastern side of downtown Waterbury, Connecticut (Figure 1, Appendix A). The Property is located on the U.S. Geological Survey (USGS) 7.5 minute Waterbury Quadrangle map at an average elevation of 450 feet above mean sea level (msl) (topographic maps from 1955 to 1984 are found in Appendix A). The topography slopes gently to the south, where at the end of the property an approximately 50-foot bluff drops off to the Mad River flood plain.

The USAR Center contains two permanent structures and a parking lot. Construction of both the 14,000-square-foot administration building and the 3,800-square-foot organizational maintenance shop (OMS) building was completed in 1958 (Figure 2, Appendix A). Both structures are on concrete foundations, and consist of concrete block walls covered with a brick veneer. The property also contains a parking lot area with chain-link security fencing enclosing the structures.

Approximately one-half of the Property is covered by impervious surface features such as asphalt parking areas, driveways, concrete walkways, and building footprints. The remaining land is half manicured grass lawn and the other half is dense forest and briars mainly on the northern edge of the property and only accessible through private residential property. Two large piles of soil were noticed at the USAR Center, the first appearing near the Administration Building near the drill hall. The second soil pile is located on the north side of the parking lot near the hazardous waste shed. These soil piles were inspected and did not appear to be stained or have any odors (Picture 1, Appendix B).

The administration building is an L-shaped, one-story structure with a 114-foot-by-48-foot administrative and classroom block, and a 72-foot by 52-foot drill hall wing. The drill hall is connected to the main block at the southeast corner by a 25-foot-long corridor, which serves as the south entrance to the center. The main administrative corridor contains administrative offices, classrooms, equipment storage, a kitchen, and bathrooms. A basement located beneath the administrative block contains a boiler room, equipment storage, bathrooms, and other offices. The drill hall is a taller, 22-foot-high structure, with roll-up doors and steel I-beam re-enforced construction. The hall contains a weapons locker, equipment storage, and other lockers.

The OMS, also built in 1958, is located approximately 65 feet north of the main block and is a 70-foot-by-53-foot, three-bay, one-story vehicle garage. It is constructed of concrete block with a brick veneer. The building has three roll-type garage doors with a maintenance pit. The building is currently used exclusively as storage.

2.4 Site Hydrology and Geology

The USAR Center and Waterbury are located within the Connecticut Valley Lowland region of the New England Physiographic Province; the Property also lies in the southwest Hills Ecoregion. The topography of the area is predominantly a result of glacial activities that contributed to the present-day landforms and drainage patterns found throughout this area of New England. Surface elevations range from 200 feet mean sea level (msl) to 1,000 feet msl in the Waterbury area.

2.4.1 Surface Water Characteristics

Figure 1 in Appendix A provides a map of the Property and surrounding areas. The Property is situated at an elevation of approximately 450 feet above msl and gently slopes to the south until reaching a bluff at the south boundary of the Property at which time it plunges 50 feet to the Mad River flood plain.

Stormwater sheet flows typically from north to south on the property. Five stormwater drains exist on the property normally on the southern edges of impervious surfaces (that is, sidewalks and parking lots). The storm drains divert water to a regulated outfall at the south-east corner of the property. A drainage swale diverts water from the northern portion of the Property to the west. The remainder of the runoff is toward the bluff edge on the south and parts of the western side of the Property.

No surface water features are located on the Property although the Mad River appears 1,500 feet south of the Property along the interstate. The Mad River ultimately discharges to the Naugatuck River.

According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map, the Property is not included in the 100-year floodplain elevation. Figure 3 in Appendix A provides a map depicting the extents the 100-year floodplain approximately 0.5 mile to the southwest of the Property.

2.4.2 Hydrogeological Characteristics

According to the Army Reserve Project Facilities document, the soils at the Property were formed as a direct or indirect result of glacial activity. These soils originated from the weathering of bedrock and glacial till and the sands and gravels in glacial outwash areas. The soils on the Property are classified as Charlton Fine sandy loams. Underlying bedrock formations of the Southwest Hills Ecoregion consist primarily of sedimentary red-brown sandstones and basalts of Triassic origin (CT Project Facility, date unknown).

During an underground storage tank (UST) removal in January 1991, soils were described as light brown, fine sand with little medium to coarse gravel, cobbles and boulders. Stratified layers including; red clay (6 inches to 2 feet below ground surface [bgs]); sand, boulders and cobbles (2 to 4 feet bgs); and fine brown sand were observed in the 6-foot excavation. No groundwater was observed (ATEC, 1994).

According to the EDR report located in Appendix E, groundwater flow direction is in a south-southwest direction toward the Mad River. The groundwater is estimated to be located at 15 to 20 bgs with bedrock lying at approximately 30 feet bgs. According to the Connecticut Department of Environmental Protection (DEP) the ground water is categorized as "GB" indicating historically urbanized areas. The designated uses for groundwater characterized as "GB" include: industrial process water and cooling waters; baseflow for hydraulically connected surface water bodies; presumed not suitable for human consumption without treatment.

2.5 Site Utilities

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

Sanitary Sewer System – The City of Waterbury provides sanitary sewer service to the Property.

Gas and Electric – Connecticut Light and Power provides electric service to the Property. Historically the USAR Center has been heated by heating oil but has been disconnected recently. The USAR Center currently is undergoing renovation to install natural gas and has not chosen a provider.

2.6 Water Supply Wells and Septic Systems

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

A search of Federal and State water well databases identified no water-supply wells located within 0.25 mile of the Property. Two wells were identified within 0.5 mile of the property both of which are downgradient or crossgradient of the Property. Neither of the wells was listed as contaminated.

3 Site History

3.1 History of Ownership

Land titles for the Property, which are included in the chain of title report in Appendix C, were available back to 1945. The report did not identify any leases or environmental liens against the Property. According to historical documentation, the U.S. Government purchased the USAR Center property on February 21, 1957 from Max R. Traurig. Max R. Traurig purchased it on May 29, 1945 from the estate of David G. Porter, deceased.

According to a City Directory provided by EDR and dated June 31, 2006, the address of the USAR Center was not listed in the research source (Johnson's City Directory) in 1990. A search of surrounding addresses provides documentation of several properties only described as Residences. A copy of the City Directory is included in Appendix E.

3.2 Past Uses and Operations

In 1957, the U.S. Government purchased the 6.9 acres of land for construction of the USAR Center, with construction of the administration building and OMS occurring that same year. Sanborn maps from 1950 show that the Property was formerly part of the Porter Homes Federal Housing Project possibly used as low-income housing. The Property always has served as a reserve and mobilization center for the USAR since the U.S. Government acquired the land in 1957.

The Property primarily functioned as an administrative, logistical, and educational facility, with limited maintenance of military vehicles occurring in the OMS. The Property was historically used by reservists for drill activities on various weekends throughout the year. The 2nd Battalion 417th Regiment of the 98th Division and Company B of the 325th Military Intelligence Battalion currently occupy the USAR Center. The mission of this USAR Center is to provide administrative, classroom, maintenance and storage space to Army Reserve personnel and assigned Army Reserve units.

At the time of the site reconnaissance, the Administration Building contained various items, including desks, office furniture, and folding tables. A kitchen located in the Administration Building is equipped with several ovens, a fryer and a grease trap (Picture 2, Appendix B). The drill hall also attached to the Administration Building contains tables, chairs, lockers, a weapons storage room and other drilling associated equipment. A boiler room located in the basement beneath the administrative corridor has four new boilers (Picture 3, Appendix B) recently installed and one new hot-water heater. The boiler recently removed is being stored temporarily in the OMS (Picture 4, Appendix B). A sump and three drains (Pictures 5 and 6, Appendix B) were observed in the boiler room, these drains along with four others located in bathrooms in the basement drain to the municipal sewer (ENSR, 1996).

The OMS was used to perform routine maintenance and storage activities on smaller assigned vehicles. Activities inside the OMS were limited to preventative maintenance

checks, including checking vehicle fluids such as motor oil, water, and antifreeze, and light maintenance activities. Any equipment requiring heavier maintenance activities was sent to an Area Maintenance Support Activity (AMSA) shop located at one of the other USAR Centers.

At the time of the site reconnaissance, the OMS primarily was used for storage of equipment. A maintenance pit was observed in the OMS and has been covered with plywood and has various equipment stored in it (Picture 7 in Appendix B). A drain at the bottom of the Maintenance pit has reportedly been sealed but was unable to be verified in a drain survey completed in June 1996. A generator, old boiler (recently disconnected, Picture 4 in Appendix B), and a barrel of used rags were observed in the OMS. Three 2.5-ton vehicles were observed at the USAR Center at the time of the site reconnaissance.

A vehicle washing pad was not observed at the USAR Center during the site reconnaissance, although one is identified in the Connecticut Project Facilities Report site map of the USAR Center. The reported wash pad location was mentioned to be in the same spot as one of the current UST pads (Picture 8 in Appendix B). No oil/water separators (OWS) were observed to be onsite and none were mentioned in the Storm Water Pollution Prevention Plan (USGS, 1999).

Historical aerial photographs, topographic maps and Sanborn® Maps were the primary sources of information on the past use and operations at the Property. Figures 4 through 21 in Appendix A provide USGS topographical maps, aerial photographs, and Sanborn maps of the Property and surrounding areas in 1922, 1950, 1955, 1956, 1959, 1963, 1967, 1968, 1972, 1975, 1977, 1980, 1984, and 1991.

The 1922 Sanborn map (Figure 4, Appendix A) shows the Property as undeveloped. The surrounding areas are mostly undeveloped, although a few residences are present northwest, west, and southwest of the Property, along East Main Street, Niagara Street, and Wolcott Street.

The 1950 Sanborn map (Figure 5, Appendix A) shows the Property (and adjacent parcels to the northeast and east) as the Porter Homes Federal Housing Project. This also can be seen on the 1955 aerial photograph (Figure 6, Appendix A). The 1955 USGS topographical map (Figure 7, Appendix A) shows the streets associated with the federal housing project; however, none of the buildings are shown. North of the Property, residential development has been expanded along Marlboro Street and Lydia Street.

The 1956 Sanborn map (Figure 8, Appendix A) shows that all but three of the buildings associated with federal housing project are no longer present. The streets associated with the Federal Housing Project are still shown on the map.

The 1959 Sanborn map (Figure 9, Appendix A) is the first time the Property is shown associated with the "U.S. Army." The Property is labeled "U.S. Army Garage and Steel Buildings;" however, no buildings are shown on the Property. There is a Knights of Columbus present northeast of the Property. The 1963 aerial photograph (Figure 10, Appendix A) shows two (possibly three) buildings on the Property.

The 1963 and 1967 Sanborn maps (Figures 11 and 12, Appendix A) appear the same as the 1959 Sanborn map. The 1968 and 1972 USGS topographical maps (Figures 13 and 14,

Appendix A) show the "Army Reserve Center" on the Property. A single L-shaped building is shown on the Property on these maps. The 1972 Sanborn map (Figure 15, Appendix A) appears unchanged from the 1963 Sanborn map.

The 1975 aerial photograph (Figure 16, Appendix A) shows the Property and adjacent properties relatively unchanged from the 1963 aerial photograph. The possible third building is not shown on this photograph.

The 1977 Sanborn map (Figure 17, Appendix A) appears unchanged from the 1963 map. The 1980 aerial photograph (Figure 18, Appendix A) shows the Property and adjacent properties relatively unchanged from the 1975 aerial photograph. The Property is labeled as "U.S. MIL RES" on the 1984 USGS topographical map (Figure 19, Appendix A). The single L-shaped building is shown on this map. The 1991 aerial photograph (Figure 20, Appendix A) shows the Property and adjacent properties relatively unchanged from the 1980 aerial photograph.

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

3.3.1 Past Use and Storage of Hazardous Substances

Information related to the past use and storage of hazardous substances at the Property was compiled through review of available site records, search of Federal and State environmental databases, and interviews with Army Reserve personnel. Chemicals formerly used and stored at the Property were associated with vehicle and facility maintenance activities, and janitorial services. Janitorial chemicals and building maintenance-related products were stored in the designated storage area within the janitorial closet located in the administration building. Vehicle maintenance products and small amounts of petroleum, oil, and lubricant (POL) products were also stored within designated areas within the OMS. Other potentially hazardous materials and POL products would have been stored in the outdoor hazardous material storage shed (picture 9, Appendix B) located north of the OMS within the parking lot area. In 1992 a Compliance Assessment Report was completed by ENSR and detailed any hazardous waste stored at the facility at that time. According to ENSR the USAR Center is a conditionally exempt small quantity generator (CESQG) because it reportedly generates less than 100 kg of hazardous waste in a calendar month (ENSR, 1992). According to the EDR report acquired for this ECP the USAR Center does not currently appear on the CESQG list.

Certain types of chemical products used and stored at the Property would have contained hazardous substances pursuant to CERCLA 101(14) 42 USC 9601(14)) and would have been stored on a rotational basis in amounts necessary to support the unit through direct support level maintenance. However, there is no indication that these hazardous substances were stored at the Property for 1 year or more in excess of corresponding reportable quantities.

3.3.2 Past Disposal and Release of Hazardous Substances

Information related to past disposal and potential release of hazardous substances at the Property was compiled through review of available site records, search of federal and state environmental databases, and interviews with Army Reserve personnel. According to Army

Reserve personnel and site records, onsite disposal of hazardous materials or wastes has not occurred at the Property. No stained soil or stressed vegetation was observed during the September 8, 2006, site reconnaissance. The parking lot area had minor staining due to the normal usage of parking lot areas. A stained area near the north edge of the parking lot was observed in a previous site reconnaissance (USGS, 1999) although no major stain was observed in that area during the most recent visit. No noxious or foul odors were noted during the site reconnaissance.

Record of a petroleum release was documented in March 1994 in the boiler room of the USAR Center. According to spill documents submitted to the Connecticut DEP, 60 gallons of No. 2 fuel oil was spilled onto the floor of the boiler room. A cracked diaphragm within the Mercoid oil pressure sensor allowed oil to spill onto the floor and into the sump pump where it was pumped into the sanitary sewer. The oil did not release into the environment and was cleaned up soon after the leak was detected.

3.4 Past Presence of Bulk Petroleum Storage Tanks

Based upon a review of available site records, a search of federal and state environmental databases, and interviews with Army Reserve personnel, three USTs were previously located at this facility but have been removed (ATEC, 1994; Clean Harbors, 1990). The USAR Center was documented as having one 10,000- and two 1,000-gallon USTs removed. The 10,000- and one 1,000-gallon USTs were reportedly replaced, while one 1,000-gallon waste oil tank reportedly was taken permanently out of use. Registration and compliance documents from the state of Connecticut were not available for review for any of the USTs described in this section.

A 1,000-gallon No. 2 fuel oil UST was removed from the east side of the OMS in 1990 and was replaced by a similar 1,000-gallon UST. Field screening and analytical results of soil samples showed no soil contamination in the excavation. The tank was removed on April 10, 1990, by Clean Harbors. During the site reconnaissance two monitoring wells were observed in close proximity to each of the existing USTs. According to site personnel interviews, the wells were installed at the same time as the tank at the request of the fire department. The purpose of the installation was for quick drainage of groundwater when tanks are removed, the wells can also be used to detect leaks and check water levels near the tank.

On June 13, 1990, a 10,000-gallon No. 2 fuel oil tank removed from the north side of the drill hall was replaced with a similar 10,000-gallon tank. Results of field screening indicated minor amounts of petroleum contamination, which was removed and disposed of by Clean Harbors. Composite soil samples collected were analyzed and all samples were nondetects except for a result of elevated petroleum hydrocarbon (220 parts per million [ppm]). The soil contamination was estimated to be due to minor overflow and spillage (Clean Harbors, 1990). During the site reconnaissance two monitoring wells were observed on either side of the tank. According to interviews with site personnel the wells were installed at the same time as the tank and are used only to detect if there is a leak from the tank and do not intercept the water table.

A 1,000-gallon waste oil tank was removed from the south side of the OMS on December 31, 1991, by ATEC. Petroleum was detected in one sample collected at 14 ppm for total petroleum hydrocarbons (TPH). No further investigation was recommended by ATEC on January 1994.

The EDR database available in Appendix E states that a 10,000-gallon and a 1,000-gallon UST are currently in use at the USAR Center. The database also states that a 500-gallon waste oil tank was removed on the same date as the USAR Center documents indicate a 1,000-gallon waste oil tank was removed. The database also states that a 1,000-gallon gasoline UST was removed at the same time as USAR Center documents indicate a 1,000-gallon No. 2 fuel oil tank was removed. There is also no record in the database of the removed and replaced 10,000-gallon UST

An approximately 250-gallon aboveground storage tank (AST) propane tank was observed during the site reconnaissance (picture 10, Appendix A). Located just outside the kitchen, the AST is presumably used for cooking. No staining or spills were noticed around the tank.

3.5 Review of Previous Environmental Reports

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

3.5.1 1990 Underground Storage Tank Removal and Replacement

A report prepared by Clean Harbors documented the removal and replacement of a 1,000-gallon and a 10,000-gallon No. 2 fuel oil tank. Soil contamination was detected beneath the 10,000-gallon UST but was determined to be due to minor overflow and spillage. Included in the report are screening results and analytical results for soil, showing no detected contamination.

Composite soil samples were taken from the excavations and stockpiled soils from each of these tanks. Field screening of soils was also performed. The composite samples were analyzed for TPH oil and grease by infrared spectroscopy, RCRA 8 metals E.P. toxicity, polychlorinated biphenyls (PCBs), and volatile organic compounds (VOC) (by EPA Method 8240). Both the field screening results and laboratory analytical results indicated non-detectable levels of contamination for the 1,000-gallon tank.

When the 10,000 gallon tank was removed, it was structurally sound, but field screening showed elevated levels of VOCs on one side of the excavation. One composite soil sample showed elevated levels of petroleum hydrocarbon contamination (220 ppm). One cubic yard of contaminated soil was removed during excavation. Clean Harbor concluded that the elevated levels were due to minor releases due to spillage and overflow during tank refilling.

3.5.2 1992 Compliance Assessment Report

A Compliance Assessment Report was completed by ENSR on August 17, 1992, to inventory environmental areas of potential concern at the USAR Center. Several areas were focused on

including current USTs used to fuel the boiler, stains in the boiler room and hazardous materials stored on site.

3.5.3 1994 Underground Storage Tank Closure

A UST closure report was prepared by ATEC for the removal of one 1,000-gallon waste oil tank. Soils were screened, sampled and analyzed for petroleum contaminants and the waste oil was tested to determine the hazardous waste contents of the sludge. Results indicate that the sludge was nonhazardous petroleum-based oil including benzene, toluene, ethylbenzene, and xylene.

Analytical results from soil samples show soils had TPH concentrations of 14 ppm. No stained soils were observed beneath the tank and head space measurements detected 15 parts per million (ppm) from a Photo Ionization Detector (PID). ATEC recommended no further investigation.

3.5.4 1996 CT010 Floor and Storm Drain, and Natural Resources Reports

This report inventories all the storm drains located at the USAR Center and documents where they lead. The report also inventories natural resources such as wildlife, vegetation, birds and protected species or environments. The report was completed by ENSR in June 1996. All floor drains in the Administration Building were verified to outfall to the sanitary sewer except for the drain in the maintenance pit which reportedly has been closed.

3.5.5 1994 Report of Petroleum Product Discharge, Spillage or Release

In 1994 approximately 60 gallons of No. 2 fuel oil was spilled in the boiler room of the Administrative Building. The boiler was shut down when the leak was discovered, the fire department was called and the spill was cleaned up. Fuel oil was not released to the environment but did enter the sanitary sewer. This spill report was submitted to the Connecticut DEP.

3.5.6 1995 Historic Resources Inventory

A Historical Resources Inventory was prepared by the Public Archaeology Laboratory, Inc. The inventory includes historical information, setting and landscape, cultural resources, security, architectural information, and structure descriptions are included for each property. The Property's structures were built in 1958 as part of a push to build 23 reserve centers in the 1950s in response to cold war threats.

3.5.7 1998 Asbestos Survey and Operations and Maintenance Plan

The report's objective was to locate and identify material within the facility that contain both friable and non-friable asbestos as well as a plan to contain any asbestos material encountered in the building. Both friable and non-friable asbestos -containing materials (ACM) were found in the building. Friable ACM was identified as gray mudded fittings insulation in the women bathroom and in the kitchen. Nonfriable ACM included floor tiles, underlying tile adhesive, asbestos-cement (transite), and board and window caulking in the OMS. The report was completed by Covino Environmental Consultants in June 1998.

3.5.8 1999 Stormwater Pollution Prevention Plan

A plan developed by the USGS outlined the stormwater drainage paths at the site. The plan highlights drainage from the parking towards the southeastern edge of the site emptying into the City of Waterbury stormwater drainage system.

3.5.9 Connecticut Project Facilities Report, Date Unknown

A summary of the environmental, historical, and archeological setting for the USAR Center is described in the Connecticut Project Facilities Report (date unknown). The summary includes the Property's cold war historical significance and determines that, based on the degree of disturbance, the Property has a low archeological sensitivity for intact artifacts.

4 Adjacent Properties

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

4.1 Land Uses

Land use south of the USAR Center is a commercially developed area along Meriden Street. A gas station, realty office, Gas and Lube, Village Bar and Grill, and Walgreens are some of the stores along Meriden Street. A mall is present to the southwest along the Mad River and highway corridors (Figure 20, Appendix A).

A building adjacent to the east of the Property is occupied by Daniels Fine Catering. The remaining areas adjacent to the property are developed as residential property.

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

TABLE 1
List of Properties Adjacent to Paul J. Sutcovoy USAR Center, Waterbury, Connecticut

Name/Type of Property	Address	Distance and Direction from Property	Zoning
Daniels Fine Catering	Dube Lane, Waterbury CT	Approx. 200 ft east	CA – Highway Commercial
Walgreens	11 Meriden Road, Waterbury, CT	Approx. 1,000 ft south	Commercial
Various Residential Properties	Walcott and Lydia Streets	Adjacent to the north	Residential District

4.2 Findings

The EDR database search results were reviewed for any evidence that adjacent properties may have past or present environmental issues that would impact the USAR Center.

Water well databases at the federal and state level were reviewed to identify any water supply source near the Property. No municipal water supply wells were identified within one mile of the USAR Center.

Land south of the Property has undergone major development since the USAR Center was built , while residential areas north have stayed relatively the same, based on a review of available aerial photographs. The property was previously developed as a housing development called the Porter Homes Federal Housing Project which was built sometime after 1922 but by 1955 had been razed with the USAR Center being built by 1958. The Mad River is approximately 1,500 feet south of the Property running east to west parallel with Interstate 84.

5 Review of Regulatory Information

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

The majority of the regulatory information for this ECP was obtained from EDR on September 11, 2006. EDR provides a regulatory database summary that consolidates standard federal, state, local, and tribal environmental record sources based on ASTM recommended minimum search distances from the Property.

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

5.1 Federal Environmental Records

5.1.1 Federal National Priorities List Sites within 1 Mile

USEPA maintains a record of the nations' worst uncontrolled or abandoned hazardous waste sites, known as the National Priorities List (NPL). Sites on the NPL undergo long-term remedial action under CERCLA. The USAR Center is not an NPL site, but one NPL site is located within 1 mile of the Property.

Scovill Industrial Landfill—According to the Connecticut DEP, the Scovill Manufacturing Co. used this area north of Meriden Road for disposal as a landfill from 1919 through the mid-1970s. The site was originally wetlands and a stream valley but was filled in with cinders, ash, demolition debris, and other wastes generated by the facility. Once the southern portion of the site was filled in, development began. By the mid-1990s, 12 of the 19 acres were developed into residential and commercial properties. During excavation for a new property industrial fill was discovered and construction ceased pending an environmental investigation.

Soil samples were collected and elevated levels of organic chemicals such as acenaphthene, fluorine, anthracene, and chrysene; metals such as cadmium, nickel, silver, and zinc; and PCBs were found. In 1998 the site was placed on the Superfund site for Industrial landfill deposition. Emergency removal of waste was completed in October 1998. The landfill is located approximately 2,000 feet east of the USAR Center.

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

The CERCLA Information System (CERCLIS) contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies, and

private persons, pursuant to Section 103 of the Act. CERCLIS contains sites that are either proposed to be or are on the NPL and sites that are in the screening and assessment phase for possible inclusion on the NPL.

The USAR Center is not a CERCLIS site but one CERCLIS site is located within 0.5 mile of the center.

Scovill Industrial Landfill is the CERCLIS site, and is discussed in Section 5.1.1 above.

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

Resource Conservation and Recovery Act (RCRA) corrective action (CORRACTS) sites represent facilities that have generated or managed hazardous wastes and require corrective action. The USAR Center is not a CORRACTS site, but there are two such sites identified within 1 mile of the USAR Center.

- Boutin Loretta—1981 East Main Street. Hazardous waste was disposed of at the site from industrial and metal stamping processes. Hazardous wastes were disposed of in a shallow lagoon seeping into groundwater. Groundwater cleanup and monitoring in place has prevented any migration of contaminants offsite. The site is located more than 0.5 mile to the southeast and located at a lower elevation, and, therefore, will not impact the site.
- Century Brass, formerly known as Brass Center Limited—73 Hamilton Avenue. Cadmium and other hazardous wastes have been disposed of into the groundwater. In situ and ex situ soil stabilization has occurred at the site to prevent groundwater contaminant migration offsite. This site is at a lower elevation approximately 0.75 mile to the west and, therefore, will not impact the USAR Center.

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

CESQGs 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 (SQGs) are defined as facilities generating between 100 kg and 1,000 kg of hazardous waste per month. A facility generating more than 1,000 kg of hazardous waste or over 1 kg of acutely hazardous waste per month is defined as a large quantity generator.

The USAR Center is not listed as an RCRA-registered conditionally exempt SQG, a RCRA SQG or a large quantity generator (LQG).

Six adjacent properties are RCRA-registered conditionally exempt SQGs (see Table 2).

No LQGs are located within 0.25 mile of the USAR Center.

TABLE 2
Federal RCRA SQG within 0.25 miles Near Paul J. Sutcovoy USAR Center, Waterbury, CT

Company/Site	Address	Distance and Direction from Property	Violation Status	Elevation Relative to Property
Ernies Auto Body Works Inc.	159 Manor Avenue	877 feet, ENE	No violations found	Higher/equal
Ernies INC	24 Meriden Road	741 feet, SSE	No violations found	Lower
ExxonMobil Oil Corp. 30896	1447 E Main Street	795 feet, S	No violations found	Higher
Expressway Auto Inc.	93 Meriden Road	828 feet, E	No violations found	Lower
Interstate Brands Corp	105 Meriden Road	896 feet, E	No violations found	Lower
Ernies Auto Body Works	141 Meriden Road	1,198 feet, E	No violations found	Lower

5.1.5 Federal Emergency Response Notification System List

The Emergency Response Notification System List maintains information on reported releases of oil and hazardous substances. The USAR Center is not on this notification list.

5.2 State and Local Environmental Records

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

5.2.1 State Lists of Hazardous Waste Sites within 1 Mile

The USAR Center is not on the state list of hazardous waste sites.

Two adjacent properties within 1 mile of the USAR Center were listed as having a hazardous waste site.

Scovill Manufacturing is on the State Hazardous Waste Site (SHWS), see section 5.1.1.

Century Brass is on the State Hazardous Waste Site, see section 5.1.3

5.2.2 Site Discovery and Assessment Database within 0.5 Mile

The USAR Center is not listed on the Site Discovery and Assessment Database (SDADB).

Two adjacent properties are listed on the SDADB:

- Designer Auto—1120 East Main St. The site is described as having a hydraulic oil and metals dump/spill. The site is lower that the USAR Center and is therefore not a concern to the site.
- Scovill Industrial Landfill—Store Avenue. See section 5.1.1

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

In addition to information obtained from the EDR report, the Connecticut Division of Underground Storage Tanks maintains a comprehensive database of Leaking UST (LUST) sites. The USAR Center is not listed in the State LUST database.

However, within 0.5 mile of the USAR Center, two LUST sites in various stages of closure were identified (see Table 3). These sites are not considered a concern to the site due to their closure status and/or proximity to the USAR Center.

TABLE 3
Leaking Underground Storage Tank Sites Near Paul J. Sutcovoy USAR Center, Waterbury, CT

Company/Site	Address	Distance and Direction from Property	Regulatory Status	Elevation Relative to Property
Expressway Auto Inc.	93 Meriden Road	828 feet, E	Cleanup initiated	Lower
Meriden Manor Shell	131 Meriden Road	1,097 feet, E	Tanks removed, site status is open	Lower

5.2.4 CT Leachate and Waste Water Discharge (LWDS) Inventory Data Layer

Review of the Leachate and Waste Water Discharge (LWDS) includes point locations digitized from LWDS source maps compiled by the Connecticut DEP. The USAR Center is not listed on the Connecticut LWDS, but 8 sites within 1 mile of the USAR Center were listed on the LWDS (see Table 4). These sites are not considered a concern to the site due to their closure status and/or proximity to the USAR Center.

TABLE 4
Connecticut LWDS Near Paul J. Sutcovoy USAR Center, Waterbury, CT

Company/Site	Status	Distance and Direction from Property	Source of Release	Elevation Relative to Property
Joseph Galasso Prop	Inactive	3,749 feet, E	LUST	Higher/Equal
Century Brass	Inactive	2,114 feet, WSW	Industrial Waste Water, Industrial Pit, Cooling Water-Surface	Lower
Ethyl Metal	Active	2,520 feet, WNW	Cooling Water-Surface	Lower
Mattatuck MFG.	Active	2,766 feet, ESE	Industrial Pit, Industrial Wastewater	Lower
Plasma Coatings	Inactive	3,040 feet, WNW	Miscellaneous –ground	Lower
Scovill Manufacturing	Inactive	4,671 feet, WNW	Landfill	Lower
Nova Dye & Print Corp	Inactive	4,949 feet, W	Oil/Chemical Spills	Lower
Not reported	Inactive	5211 feet, WNW	Failing Septic System	Lower

UST – Underground Storage Tanks
LWDS – Leachate and Waste Water Discharge

5.2.5 State-Registered UST Sites within 0.5 Mile

Review of the EDR report and the state of Connecticut's UST database shows the USAR Center is listed on the State UST database. This database listing has records on four USTs currently or historically present at the USAR Center. A 1000-gallon gasoline UST and a 500-gallon waste oil UST were removed and achieved a status of permanently out of use. The database also shows listing of two No. 2 fuel oil tanks (one 10,000- and one 1,000-gallon) currently in use.

According to the database, six UST sites are present within 0.25 miles of the USAR Center. Due to the distance and location downgradient of the site none of the UST sites present an environmental risk to the site (see Table 5).

TABLE 5
State Registered UST Sites Near Paul J. Sutcovoy USAR Center, Waterbury, CT

Company/Site	Address	Distance and Direction from Property	Regulatory Status	Elevation Relative to Property
East Main Exxon	1447 East Main Street	795 feet, S	Permanently out of use	Lower
Sun Petroleum	12 Meriden Road	811 feet, S	Permanently out of use	Lower
Expressway Auto Inc.	93 Meriden Road	828 feet, E	Currently in use	Lower
Wonder Bread	105 Meriden Road	896 feet, E	Currently in use	Lower
Checkered Flag Citgo, Inc.	1485 E. Main Street	914 feet, S	Currently in use	Lower
Gulf Food Mart	131 Meriden Road	1,097 feet, E	Currently in use	Lower

5.2.6 Connecticut Manifest List

A review of the EDR database for tracking hazardous waste from the generator through transporters to a treatment, storage, or disposal (TSD) facility was completed and 7 Connecticut Manifest sites were located within 0.25 miles of the USAR Center (Table 6). The USAR Center was not identified on the CT Manifest database. These records are used for the purpose of tracking hazardous substances that are present at the facilities. Discrepancies in these tracking manifests can denote releases of chemicals to the environment. Although some of the facilities in the vicinity reported discrepancies in the Connecticut Manifest database, none of the facilities pose a risk to the USAR Center.

TABLE 6
Connecticut Manifest Near Paul J. Sutcovoy USAR Center, Waterbury, CT

Company/Site	Address	Distance and Direction from Property	Discrepancies	Elevation Relative to Property
Ernie's Auto Body Works, Inc.	159 Manor Avenue	877 feet, ENE	No	Higher/Equal
Shell Oil Company	350 Wolcott Street	1,071 feet, N	Yes	Higher/Equal
Paul Pitts	50 Meriden Road	681 feet, SE	Yes	Lower
Ernies Inc.	24 Meriden Road	741 feet, SSE	None reported	Lower
ExxonMobil Oil Corp 30896	1447 East Main Street	795 feet, S	No	Lower
Expressway Auto Clinic Inc.	93 Meriden Road	828 feet, E	No	Lower
Interstate Brands Corp	105 Meriden Road	896 feet, E	None reported	Lower
Fuji/Walgreens Training Center	11 Meriden Road	811 feet, S	No	Lower

5.2.7 Records Contaminated Public Wells

The EDR report identified three private water wells located within 1 mile of the USAR Center. These wells are located downgradient of the Property and there is no evidence that they are screened within contaminated water sources. No public water-supply wells exist within 1 mile of the USAR Center.

5.3 Unmapped Sites

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

Using the mapping utility provided at maps.google.com and mapquest.com, the locations of the orphan sites were identified and mapped. Three of the sites are located within corresponding ASTM D6008 recommended minimum search distances:

- Fran Thom Cleaners—1714 E. Main St., Waterbury, CT 06705. The facility appears within 0.5 mile of the USAR Center but is downgradient and, therefore, will not impact the USAR Center (CT Manifest).
- Land 'N Sea Marine—2974 E. Main St., Waterbury, CT. The facility is within 1 mile of the USAR Center but is located downgradient and, therefore, does not pose any environmental impacts (CT Manifest).

- Waterbury Glass—2538 E. Main St., Waterbury, CT. The facility is within 1 mile of the USAR Center but is on the opposite side of the Mad River and, therefore, will pose no environmental impacts (CT Manifest).

5.4 Summary of Properties Evaluated to Determine Risk to the Property

To summarize Subsections 5.1 through 5.3, four separate properties, near or adjacent to the USAR Center, were evaluated as potential risk properties to the Property. These adjacent properties evaluated were identified as a result of information obtained during area reconnaissance, interviews, and regulatory database searches, and are summarized below in Table 7.

Based on an evaluation of available site information and details concerning the properties listed in Table 7, none of the facilities evaluated exhibit significant environmental conditions that have the probability of adversely affecting the environmental conditions at the USAR Center.

TABLE 7
Properties Evaluated for Potential Environmental Risks
Paul J. Sutcovoy USAR Center, Waterbury, CT

Company/Site	Database	Elevation Relative to Property?	Potential Impact on the Property?	Comments
Scovill Industrial Landfill	NPL, FINDS, SDADB	Lower	No	Listed as a Superfund site, no indication that the site is closed.
Century Brass	SHWS, CT Spills	Lower	No	Groundwater contamination regulated under RCRA.
Boutin Loretta	SDADB, SHWS, CT Property	Lower	No	Groundwater contamination, remediation ongoing, regulated under RCRA.
Nova Dye and Print Company	LWDS	Lower	No	Oil and chemical spills. Site is inactive.
Galasse Prop	LUST	Higher	No - Crossgradient	Leachate discharge from a LUST, the UST is inactive.

Notes:
FINDS – Federal Index System/Facility Registry System
SHWS – State Hazardous Waste Site
SDADB – Site Discovery and Assessment Database
LWDS – Leachate and Waste Water Discharge

6 Site Investigation and Review of Hazards

Findings documented in the following subsections are based on the September 8, 2006, site reconnaissance, a review of available site records, and information obtained from U.S. Army Reserve personnel.

6.1 USTs/ASTs

Two No. 2 fuel oil USTs are currently located at the Property. These tanks have capacities of 1,000 gallons and 10,000 gallons and are associated with the OMS and Administration Building respectively (Pictures 11 and 8, Appendix B). These tanks were observed during the site reconnaissance, and no stained soils were observed in connection with these USTs. These tanks were taken out of service when a new natural gas-fired boiler was installed on July 1, 2006. According to USAR Center personnel the tanks, although no longer in use, are still in place on the Property.

According to records obtained from the 94th Regional Readiness Command (RRC) both tanks were replaced in 1990 by Clean Harbors with minimal soil contamination (Clean Harbors, 1990). The 1,000-gallon tank had no associated soil contamination, while the 10,000-gallon tank had minor soil contamination associated with minor releases during tank refilling. The tank itself was structurally sound upon removal.

A 1,000-gallon waste oil tank was removed in December of 1991 from the south side of the OMS at the USAR Center. Soils were screened and analyzed for petroleum contaminants and the waste oil was tested to determine the contents of the sludge removed from the UST. When the UST was removed the tank was observed to be in good condition with no perforations. No staining beneath the UST was observed and very low detections were seen using PID (24ppm) and Non-Dispersive Infrared (NDIR) (0.1 ppm). Results indicate that the sludge had components consistent petroleum based fuels and analytical results show soils had concentration of 14 ppm for TPH. ATEC recommended no further investigation (ATEC, 1994).

An approximately 250-gallon AST was observed at the Property and currently holds propane for cooking purposes in the kitchen.

6.2 Inventory of Chemicals/Hazardous Substances

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

Available records indicate that hazardous materials, or POLs, have been stored at this facility in conjunction with the historical use of the OMS. Materials stored at the Property

historically included waste oils, solvents, antifreeze, and other fluids associated with vehicle maintenance.

During the site reconnaissance cleaning solvents, waxes, and other cleaning products were observed in the janitor's closet. A hazardous materials storage shed was observed in the parking lot, north of the OMS. Motor oil, No. 2 fuel waste oil, diesel fuel, bleaching powder, and several batteries were observed in the hazardous material storage shed (Picture 9, Appendix A).

Current tenants use a licensed commercial company for herbicide and pesticide management. 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.

6.3 Waste Disposal Sites

Available records and interviews did not indicate the practice of onsite waste disposal other than through managed storage and offsite disposal, or through the sewer system. No waste disposal sites were observed during the site reconnaissance, nor were any signs of past onsite waste disposal (such as stressed vegetation or suspicious depressions in the landscape) observed. A wooded area north of the parking lot was not able to be accessed due to fencing and barbed wire. The only access points are through private property so the land was only observed through the fence.

A 55-gallon drum was observed at the facility containing burnt paper scraps (Picture 12, Appendix B). According to personnel interviews the drum is used for burning of sensitive documents.

6.4 Pits, Sumps, Drywells, and Catch Basins

Available records, interviews, and site observations did not indicate the existence or past existence of any pits or drywells.

Several stormwater basins were observed on the property and according to the Stormwater Pollution Prevention Plan (USGS, 1999) the water is diverted toward the southeast end of the property. This water drains to the local municipal storm drain system. During the site reconnaissance, no OWSs were observed and no OWSs were known to exist historically at the USAR Center. A sump was observed in the boiler room, no staining was noticed around the sump (Picture 5, Appendix B).

Three drains were observed in the boiler room at the time of the site reconnaissance, no petroleum staining was observed around the drains (Picture 6, Appendix B). Four drains were observed in the basement men's and women's bathrooms, one located in a basement stairwell and one located in a basement window well. These drains are connected to the municipal sewer system (ENSR, 1996).

A former maintenance pit (Picture 7, Appendix B) located in the OMS is reported to be out of service for at least 15 years according to site interviews. The drain survey completed in June 1996 by ENSR lists the drain at the bottom of the maintenance pit as reportedly sealed.

During the September 8, 2006, site reconnaissance, the drain was not able to be observed as there is equipment being stored in the maintenance pit. According to records limited maintenance activities have occurred in the OMS and no reports of spills or improper storage occurred in the vicinity of the maintenance pit.

A grease trap (Picture 2, Appendix B) is located in the kitchen of the Administration Building, according to the drain survey, the grease trap drains to the sanitary sewer.

6.5 Asbestos-Containing Material (ACM)

A 1998 survey evaluation at this facility found friable and non-friable types of ACM. Friable mudded piping insulation and block-type insulation was identified in the women's bathroom and the kitchen. Nonfriable ACM includes floor tiles and underlying mastic adhesives in the Administration Building, asbestos-cement (transite) board, and window caulking located in the OMS. Although the ACM was observed during the site reconnaissance, the CH2M HILL observer was not qualified to positively identify them without analytical confirmation. In addition, no "asbestos-free" stickers or other indications of remediation were observed, which may imply that the survey results were still relevant.

6.6 Polychlorinated Biphenyl (PCB)-containing Equipment

Three pad-mounted transformers are located on Property, just north of the administration building. The transformers appear to be relatively new and are unlikely to contain PCBs. No labels were noticed and no staining or leakage was noticed in the area of the transformers.

During the July 2006 site reconnaissance, older-style fluorescent light fixtures were observed in the administration and OMS. Older fixtures, especially those that are original to the Property, could potentially contain PCBs.

6.7 Lead-based Paint (LBP)

All buildings on the Property were constructed before 1981 and are likely to have been painted with lead-based paint (LBP). At the time of the site reconnaissance, peeling paint was noticed in the basement bathrooms.

6.8 Radon

A site-specific radon survey was conducted at the USAR Center in 1994. Passive detection equipment was installed in two locations, the first in the retention center in the Administration Building and the second location was in the OMS. Sampling results from the Administration Building was 2.6 picoCuries per liter of air (pCi/L) while results from the OMS was 1.0 pCi/L. These results were below the USEPA-recommended maximum allowable exposure level of 4.0 pCi/L.

6.9 Munitions and Explosives of Concern (MEC)

Based on a review of available records, the site reconnaissance, and interviews with USAR Center personnel, there are no indications that munitions and explosives of concern (MEC) is or was present at the Property. There are no firing ranges on the Property, and there is no evidence that a firing range occurred on the Property historically. A weapons locker is located on the premises although during the site reconnaissance, site personnel stated that no munitions are located onsite and all target practice activities occur at Fort Devens.

6.10 Radioactive Materials

Based on a review of available records, the site reconnaissance, and interviews with USAR Center personnel, there are no radioactive materials currently stored at the USAR Center. Army Reserve personnel indicated that radioactive devices such as radioactive compasses, gas and chemical detection devices and night vision goggles recently were removed from the facility. These pieces of equipment were stored in the basement in a locked store room.

In the past small quantities of radioactive materials were stored at the Property, including compasses, night vision goggles, and nuclear, biological, and/or chemical (NBC) detection and calibration equipment. There are no known releases associated with these radioactive materials. The amount of radioactive materials present in these devices is expected to be minimal and, therefore, is not expected to present a threat of release to the environment.

7 Review of Special Resources

7.1 Land Use

The City of Waterbury's Planning and Zoning Department has designated this Property as CA – Highway Commercial. The Property is located in a mixed-used area that combines commercial, industrial, and residential land uses.

7.2 Coastal Zone Management

The Office of The Long Island Sound Program inside the Connecticut DEP is the lead organization for the Ocean and Coastal Management Program in Connecticut. According to the office of the Long Island Sound Program, the USAR Center is not included in the coastal zone management plan, nor is it in a coastal zone.

7.3 Wetlands

According to the National Wetlands inventory map, no wetlands appear on the USAR Center property. One area of Riverine wetlands appears southwest of the Property at the bottom of the bluff adjacent to the USAR Center (Figure 21 in Appendix A). Several other wetlands areas appear further to the southwest and southeast associated with the Mad River. According to the Natural Resources Inventory Report (ENSR 1996) no wetlands appear on the property.

7.4 100-year Flood Plain

A review of the FEMA digital Flood Hazard Area map indicates that the Property lies outside the 100-year floodplain (Figure 3 in Appendix A).

7.5 Natural Resources

A natural resources survey completed by ENSR (June 1996) noted that this USAR Center did not contain any key natural resources, including wetlands, surface water, floodplains, rare species, and/or the potential for rare species. Appendix D contains copies of the Natural Resource Survey Report. The Property contains lawn areas, parking lots and several areas on the north side covered by successional vegetation consisting of forest and briar patch. The USAR Center property appears similar to the description in the natural resources survey.

7.6 Cultural Resources

The Connecticut Project Facilities document contained a summary of an archeological survey completed for the USAR Center (Connecticut Project Facilities, date unknown). The

survey concluded that the facility has been entirely disturbed, therefore an intensive archaeological survey of the parcel was not recommended. During the site reconnaissance the parcel of land occupied by the USAR Center was determined to possess a low archaeological sensitivity of intact cultural resources. Appendix D provides a copy of the Connecticut Project Facilities document. The Property reached eligibility for placement on the National Register of Historic Places in 2007.

8 Conclusions

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

8.1 Review of Findings

Hazardous Substances. CERCLA hazardous substances were used and stored at the Property in amounts necessary to support unit-level vehicle and building maintenance activities. Available information indicates, however, that the quantities stored would not have exceeded corresponding CERCLA threshold planning quantities. At the time of the site reconnaissance, all substances were stored in good condition, and there was no evidence that the chemicals used or stored were released or disposed of at the Property.

Underground Storage Tanks (USTs)/Aboveground Storage Tanks (ASTs). According to historical records and site personnel three USTs were removed from the USAR Center and two USTs recently disconnected remain buried at the Property. A 1,000-gallon No. 2 fuel oil UST was removed from the east side of the OMS in 1990 and was replaced by a similar 1,000-gallon UST. A 10,000-gallon No. 2 fuel oil tank removed from the north side of the drill hall was replaced with a similar 10,000-gallon tank. A 1,000-gallon waste oil tank was removed from the south side of the OMS on December 31, 1991, by ATEC. TPH contamination (14 ppm) was detected in the soils beneath the 1,000-gallon UST removed in 1991. No further action was recommended for the 1,000-gallon waste oil tank removal completed by ATEC.

An approximately 250-gallon propane AST was observed outside the kitchen during the site reconnaissance.

Non-UST/AST Petroleum Storage. No petroleum storage other than in USTs or ASTs was observed on the Property.

Polychlorinated Biphenyls (PCBs). Three pad-mounted transformer units are located on the Property. The transformers were behind a locked fence and no labels were noticed on the transformers. The transformers appear new and were not observed to have any leaks or staining.

Asbestos-containing Materials (ACM). The USAR Center contains both friable and non-friable ACM in the building. Friable ACM was identified as gray mudded fittings insulation in the women's bathroom and in the kitchen. Non-friable ACM included floor tiles, underlying tile adhesive, asbestos-cement (transite) board, and window caulking in the OMS.

Lead-based Paint (LBP). No LBP surveys have been conducted at the Property. Facilities constructed before 1981 are likely to have been painted with LBP. All buildings on the property were constructed before 1981 and, therefore, have the potential to have LBP present. At the time of the site survey, several pipes and walls in the basement were observed to have peeling paint.

Radiological Materials. Based on available records review, interviews, and a site reconnaissance, there was no evidence of any radiological materials storage at the time of the site reconnaissance. According to personnel interviews, the USAR Center did store radioactive compasses and chemical and biological detection devices that contained radioactive material in the past.

Radon. A site-specific radon survey was conducted at the USAR Center in 1994. Sampling results from the administration building indicated 2.6 pCi/L while results from the OMS indicated 1.0 pCi/L. The result levels were below USEPA-recommended maximum allowable exposure level of 4.0 pCi/L.

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

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

Wetlands and Flood Plain. According to the National Wetlands inventory map, no wetlands appear on the USAR Center property. One area of riverine wetlands appears southwest of the Property at the bottom of the bluff adjacent to the USAR Center. Several other wetlands areas appear further to the southwest and southeast associated with the Mad River.

A review of the FEMA digital Flood Hazard Area map indicates that the Property lies outside the 100-year floodplain. The USAR Center does not lie within Connecticut Coast Management Area.

Threatened and Endangered Species. A natural resources survey, completed by ENSR in May 1996, noted that this USAR Center did not contain any key natural resources, including wetlands, surface water, floodplains, rare species, and/or the potential for rare species.

Archaeological and Historical Resources. According to an archeological survey completed for the USAR Center the facility has been entirely disturbed and is therefore determined to possess a low archaeological sensitivity of intact cultural resources. The Property reached eligibility for placement on the National Register of Historic Places in 2007.

8.2 Environmental Condition of Property

Findings of this ECP report were based on reasonably available environmental information; interviews with Property, state, and local personnel; review of previous environmental

studies; and federal and state database and file information related to the storage, release, treatment, or disposal of hazardous substances or petroleum products. Results also were based on visual observations of the Property and adjacent properties.

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

- Two No. 2 fuel oil USTs (one 10,000-gallon and one 1,000-gallon) are currently buried at the USAR Center. Three 4-inch-diameter dry monitoring wells have been installed next to the tanks (two next to the 10,000-gallon and one next to the 1,000-gallon) to detect any leaks that might occur. The tanks were recently disconnected during a boiler conversion to natural gas, and must be closed per Connecticut DEP regulations.
- A 1,000-gallon waste oil tank was removed from the south side of the OMS shop on December 31, 1991, by ATEC. The tank, when removed, appeared clean and intact, although composite soil samples tested at 14 ppm for TPH. This soil contamination was attributed to a limited release.
- Record of a petroleum release was documented in March of 1994 in the boiler room (basement) of the USAR Center. According to spill documents submitted to the Connecticut DEP, roughly 60 to 160 gallons of No. 2 fuel oil was spilled onto the floor of the boiler room. Although oil was reportedly not released into the environment and was cleaned up soon after the leak was detected, the possibility exists that oil may have seeped into cracks and seams within the boiler room floor.

9 References

Persons Contacted

- Mr. Craig Kelly of the 94th RRC, NEPA specialist, 978-796-2606, September 8, 2006.
- Master Sgt. Roy Givens, Unit Administrator, 203-753-2334, September 8, 2006.
- Mr. Mike Seamans, 88th Regional Facilities Manager, 978-580-0872.

Resources Consulted

- Aerial Photographs provided by Environmental Data Resources dated 1955, 1963, 1975, 1980 and 1991.
- National Wetlands Inventory http://www.fws.gov/nwi/
- Connecticut Coastal Zone Management, http://coastalmanagement.noaa.gov/mystate/ct.html
- FEMA Flood Hazard Insurance Map, http://msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView
- Federal Regulatory Databases
  - National Priorities List (NPL), April, 19, 2006
  - CERCLIS list, June 19, 2006
  - CORRACTS list March 15, 2006
- State and Local Regulatory Databases
  - RCRA – Small Quantity Generator, June 13, 2006
  - SHWS, May 19, 2006
  - SDADB, May 19, 2006
  - LUST database, May 23, 2006.
  - CT LWDS list, September 22, 2006
  - UST list, July 17, 2006
  - MANIFEST list, December 14, 2004

Agencies Contacted

- City of Waterbury, Planning and Zoning Department

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ENSR. 1996. Floor and Storm Drain Inventory and Natural Resources Inventory, USAR Center. June

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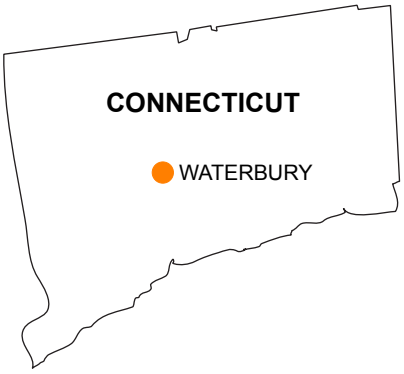
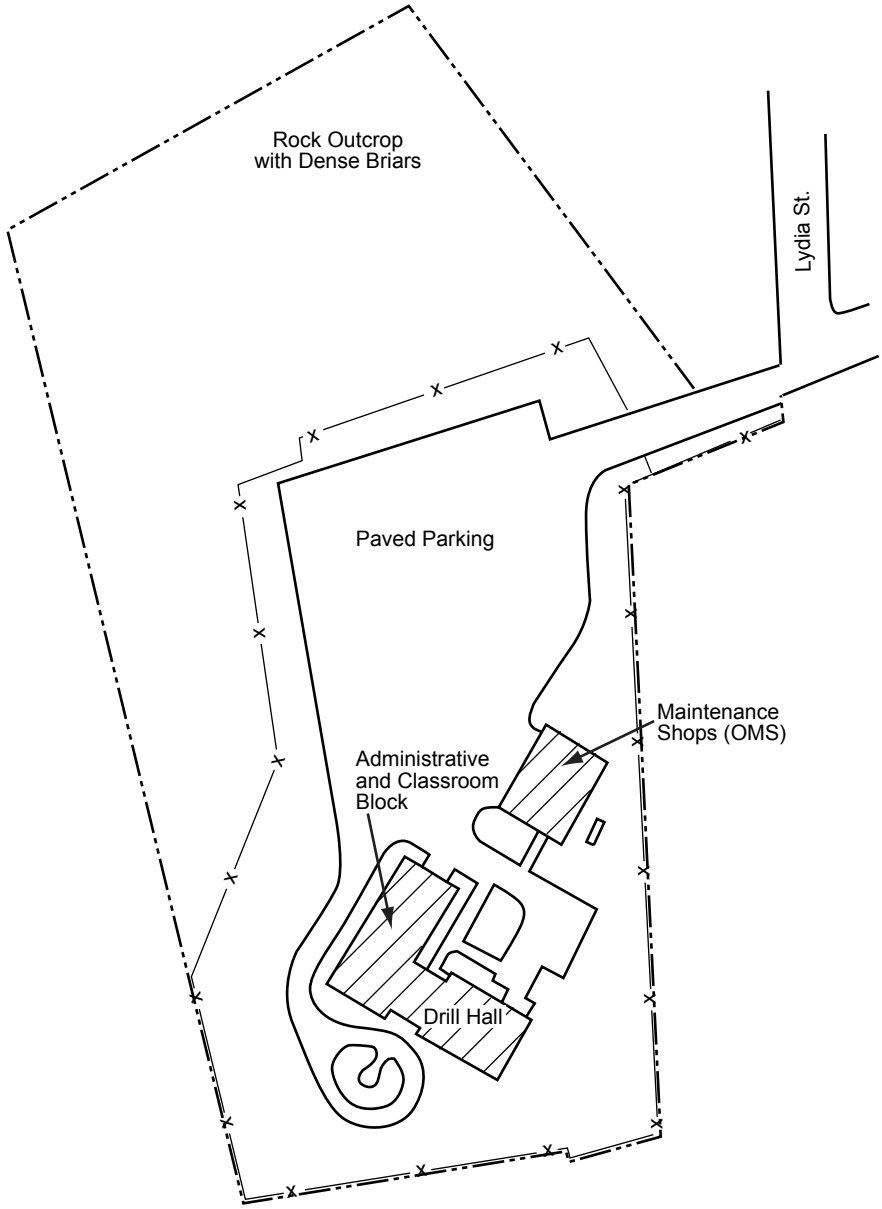
Appendix A
Figures



North

FIGURE 1
Site Location Map
Phase I ECP Report

CH2MHILL



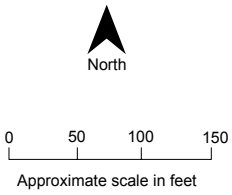


FIGURE 2
Site Layout Plan
Phase I ECP Report

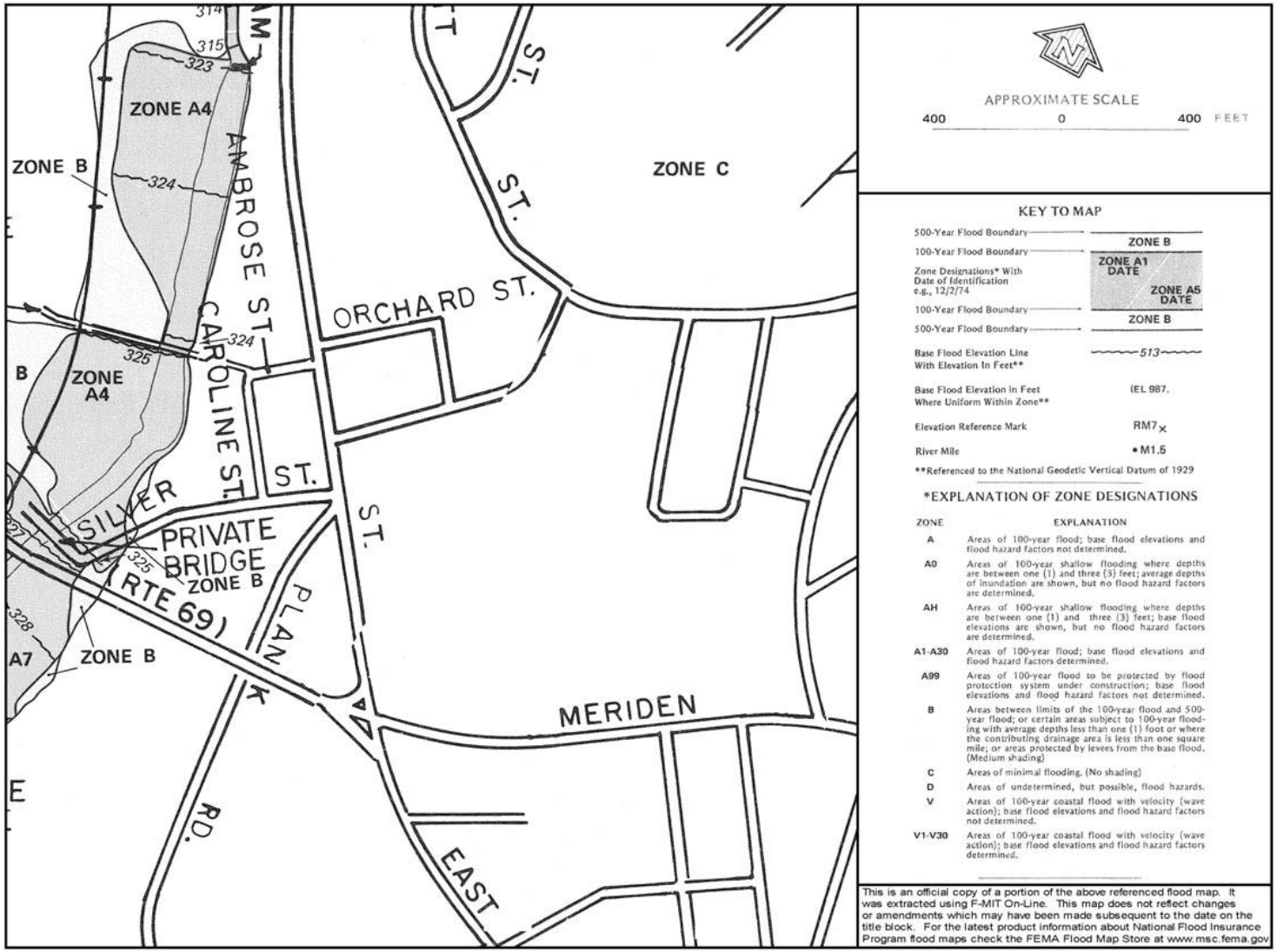


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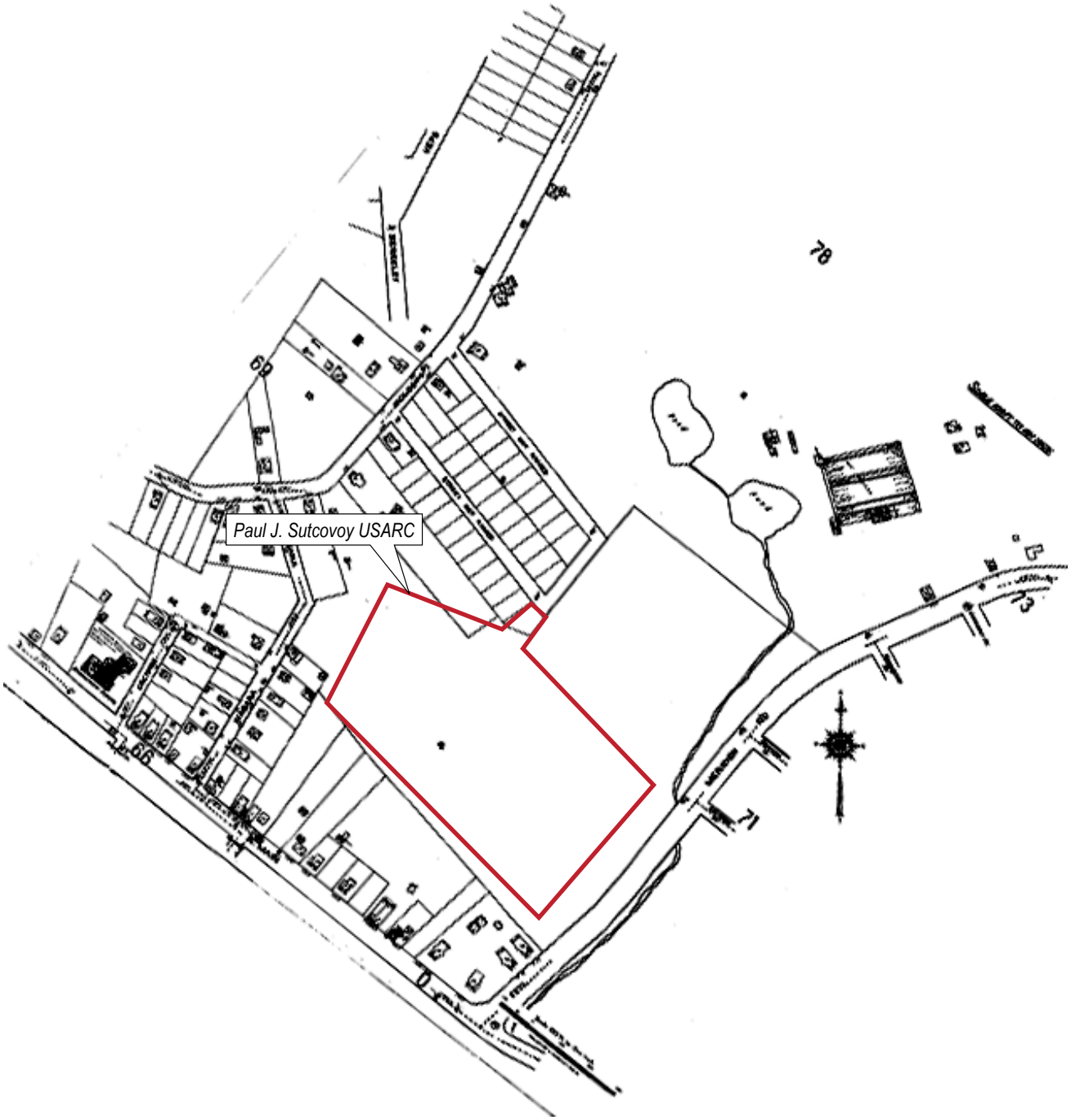
FIGURE 3
Flood Plain Map
Phase I ECP Report

CH2MHILL



North

FIGURE 4
1922 Sanborn Map
Phase I ECP Report

CH2MHILL

North

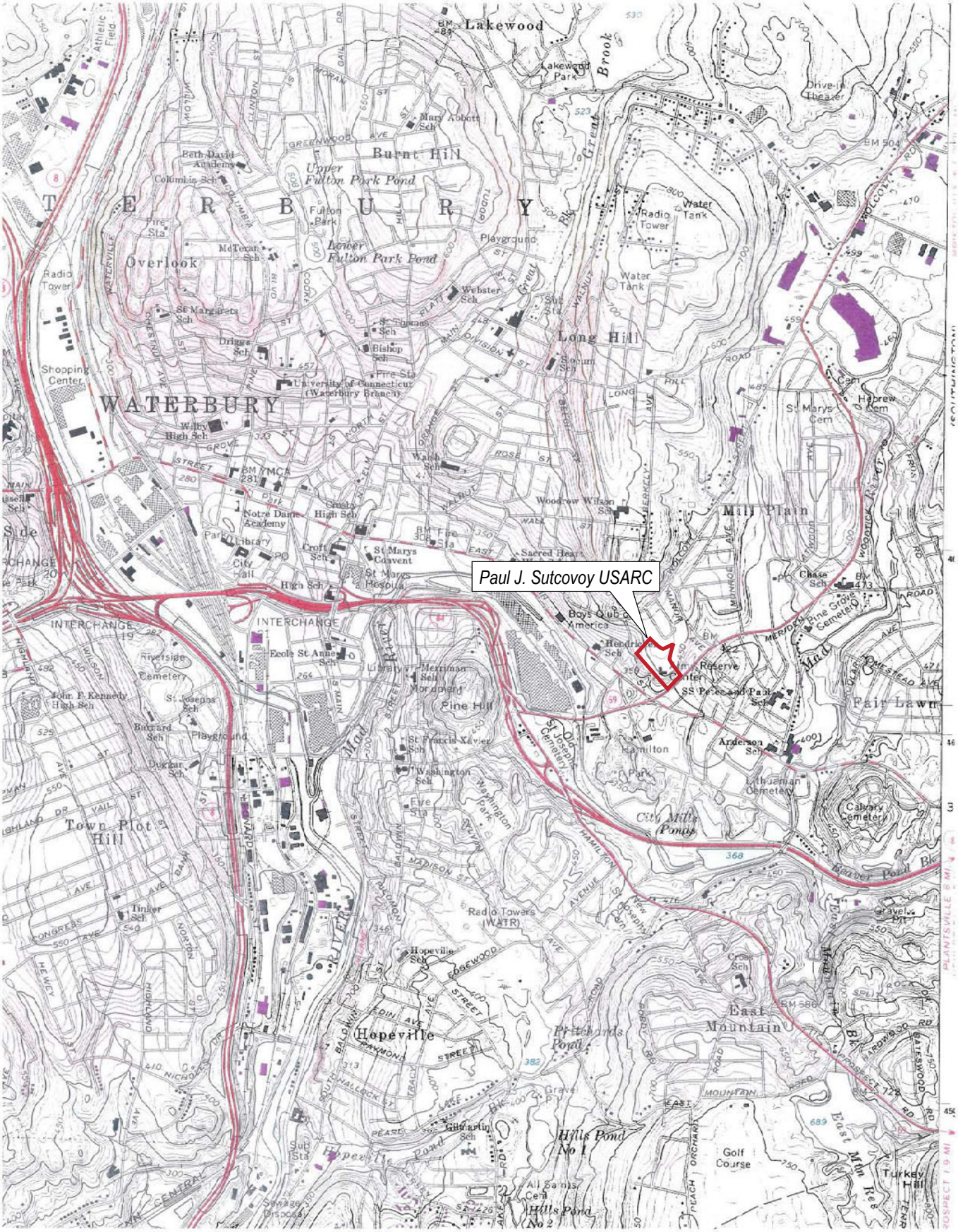
FIGURE 5
1950 Sanborn Map
Phase I ECP Report

CH2MHILL

North

FIGURE 6
1955 Aerial Photograph
Phase I ECP Report

CH2MHILL



North

FIGURE 7
1955 USGS Topographic Map
Phase I ECP Report

CH2MHILL

North

FIGURE 8
1956 Sanborn Map
Phase I ECP Report

CH2MHILL

North

FIGURE 9
1959 Sanborn Map
Phase I ECP Report

CH2MHILL

North

FIGURE 10
1963 Aerial Photograph
Phase I ECP Report

North

FIGURE 11
1963 Sanborn Map
Phase I ECP Report

CH2MHILL

North

FIGURE 12
1967 Sanborn Map
Phase I ECP Report

CH2MHILL

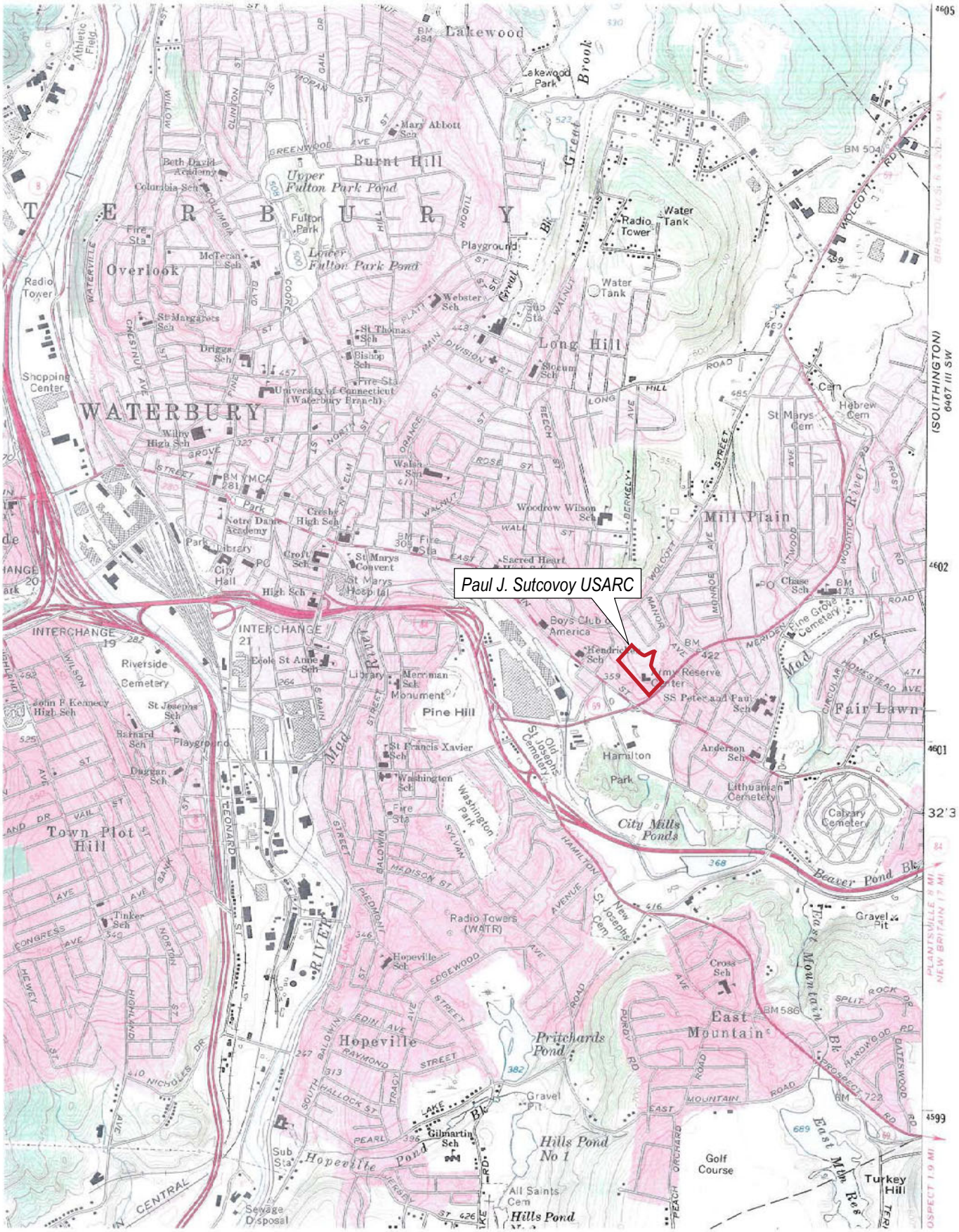


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FIGURE 13
1968 USGS Topographic Map
Phase I ECP Report

CH2MHILL

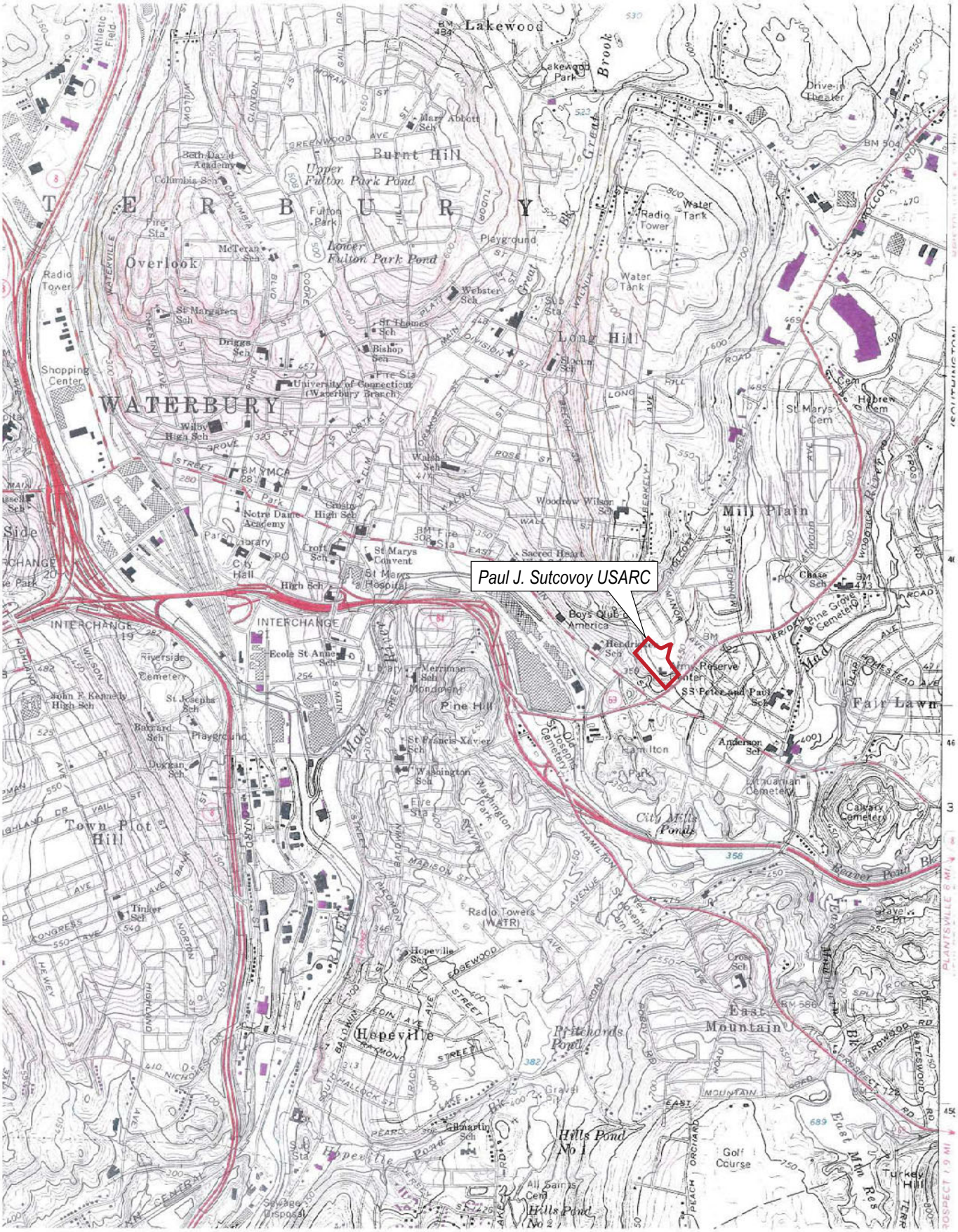

FIGURE 14
1972 USGS Topographic Map
Phase I ECP Report

North

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North

FIGURE 15
1972 Sanborn Map
Phase I ECP Report

CH2MHILL

North

FIGURE 16
1975 Aerial Photograph
Phase I ECP Report

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North

FIGURE 17
1977 Sanborn Map
Phase I ECP Report

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ES082006013MKE Figure_17_1977_Sanborn_Map

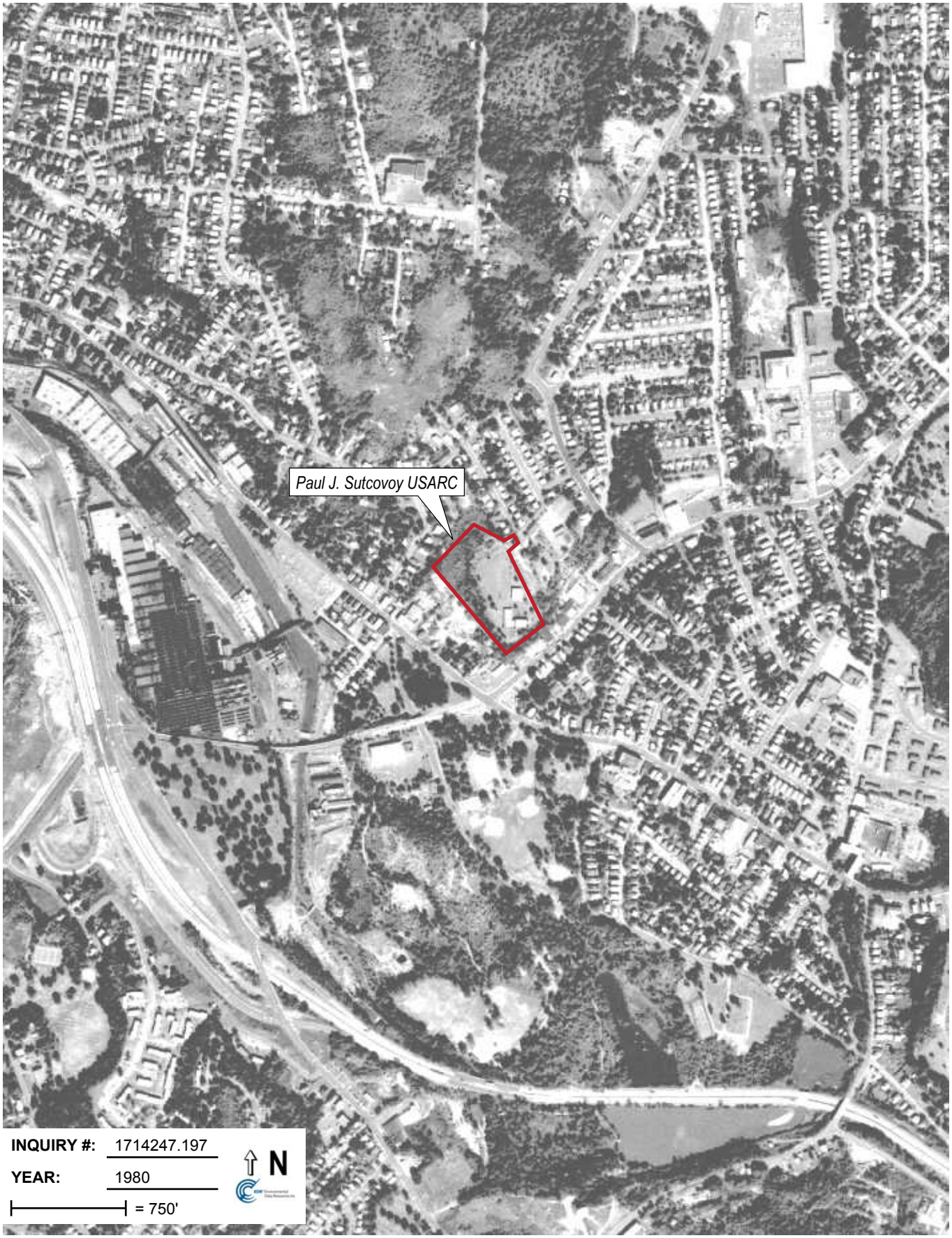

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FIGURE 18
1980 Aerial Photograph
Phase I ECP Report

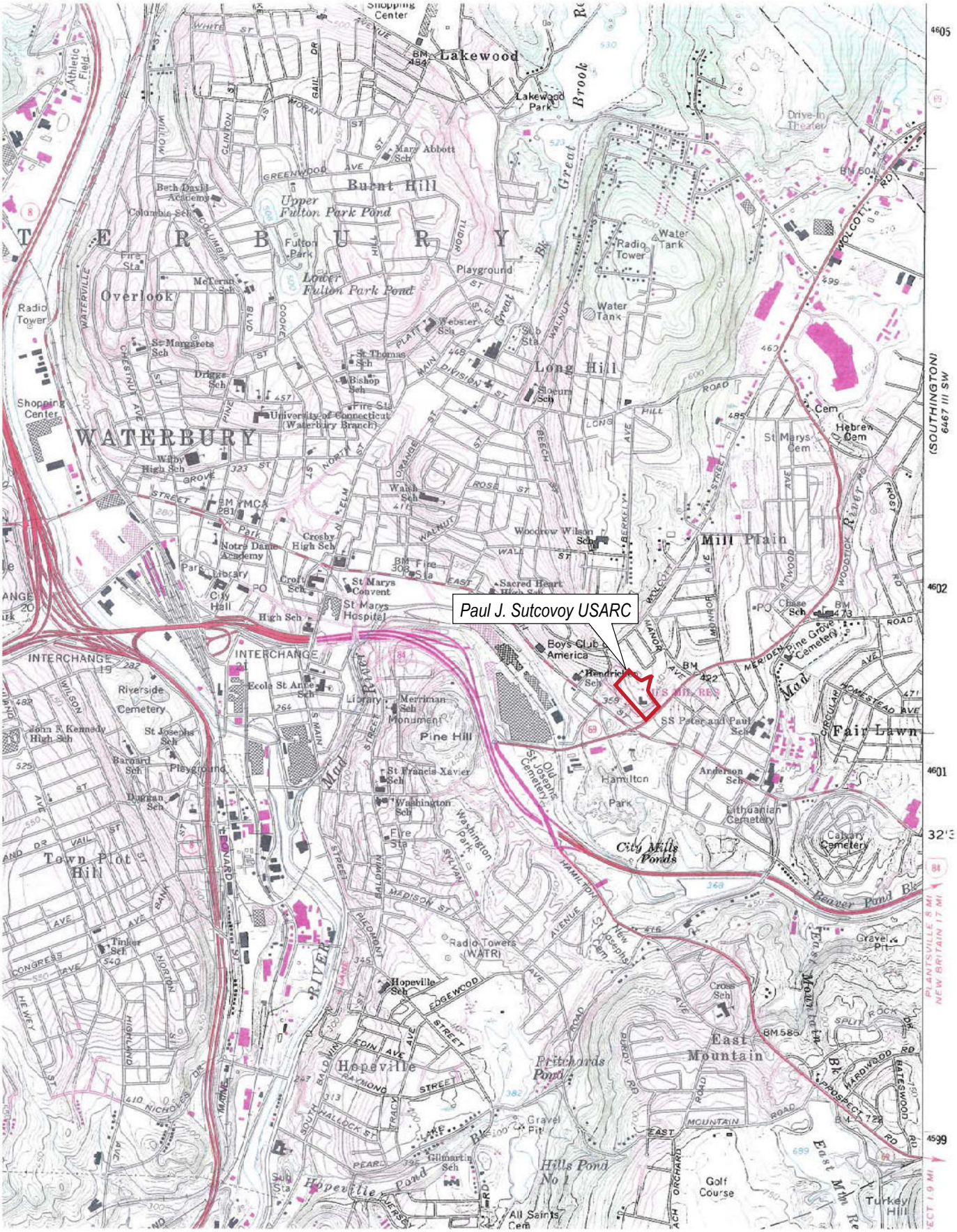

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FIGURE 19
1984 USGS Topographic Map
Phase I ECP Report

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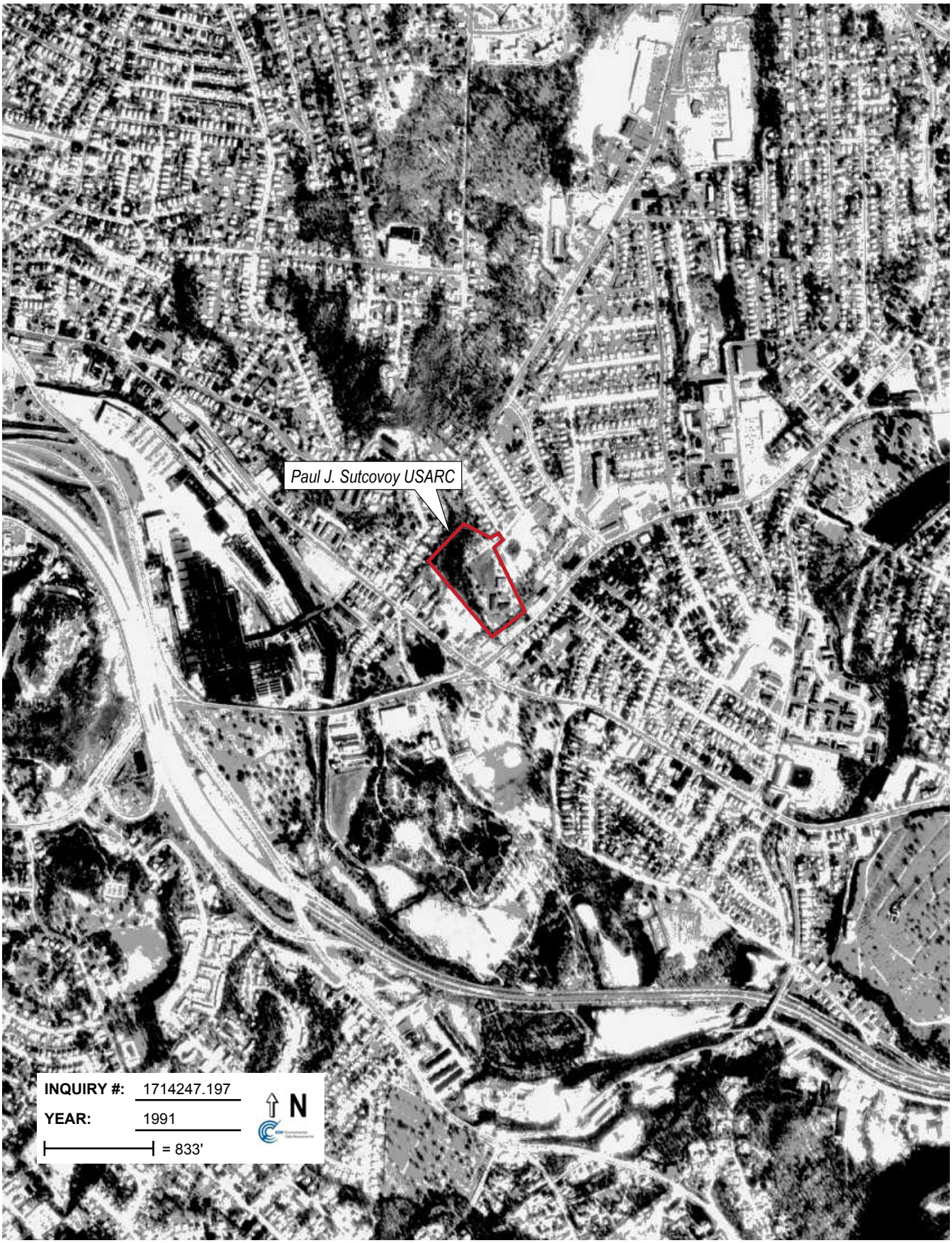

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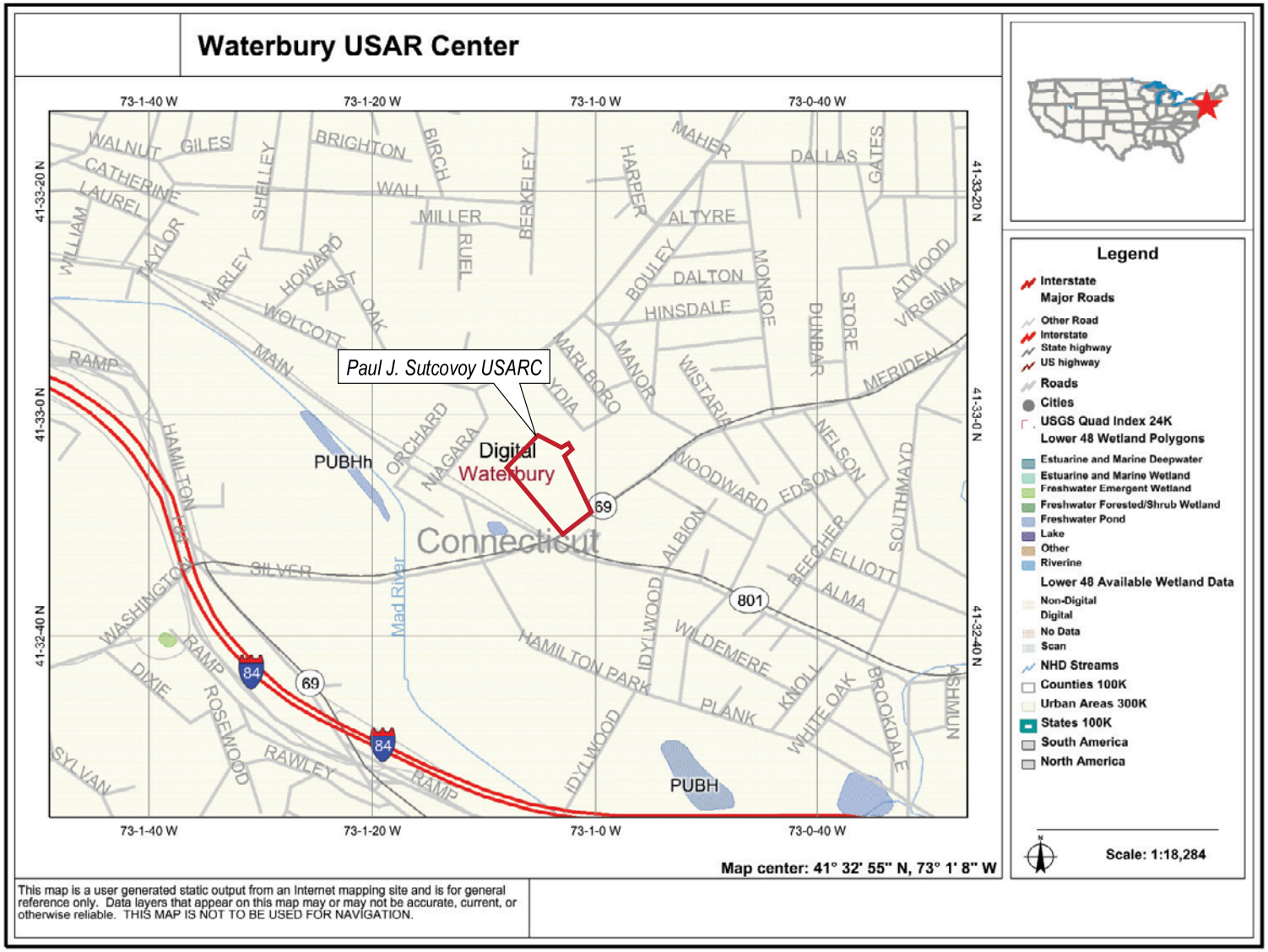
FIGURE 20
1991 Aerial Photograph
Phase I ECP Report

CH2MHILL



North

FIGURE 21
National Wetlands Inventory Map
Phase I ECP Report

CH2MHILL

Appendix B

Site Reconnaissance Photographs

APPENDIX B

Site Reconnaissance Photographs

1. View looking southeast at pile of dirt.

2. View looking south at grease trap.

3. View looking south at new boilers.

4. View looking east at used boiler oil pan.

5. View looking down on sump.

6. *View looking south at boiler room.*

7. View looking west at maintenance pit.

8. View looking North at oil tank pad.

9. View looking north at hazardous waste shed.

10. *View looking south at propane tank.*

11. View looking west at oil tank pad.

12. *View looking south at paper burning drum.*

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

PAUL J. SUTCOVOY USARC, CT
LYNDIN STREET EXTENSION
WATERBURY, CONNECTICUT

Submitted to:

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

Attention: Mary Jacques

Project No. N06-5881

Saturday, September 16, 2006

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

UNITED STATES OF AMERICA

The following is the current property legal description:

Being that parcel or tract of land, consisting of 7 acres, more or less, situated and lying westerly of Manor Avenue and Northerly of Meriden Road in the City of Waterbury, New Haven County, State of Connecticut

Assessor's Parcel No: 0348-0101-0017

1. HISTORICAL CHAIN OF TITLE

1. PROBATE:
   - RECORDED: 05-29-1945
   - GRANTOR: Estate of David G. Porter, deceased
   - GRANTEE: Max R. Traurig
   - INSTRUMENT: Bk 545, Pg 156

2. DEED:
   - RECORDED: 02-21-1957
   - GRANTOR: Max R. Traurig
   - GRANTEE: United States of America
   - INSTRUMENT: Bk 749, Pg 112

2. LEASES AND MISCELLANEOUS

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

3. LIMITATION

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

Appendix D

Previous Environmental Site Assessment Reports

Paul J. Sutcovoy USARC (CT010)

Facility Description

The Paul J. Sutcovoy USARC is located on the southwest end of Lydia Street Extension in Waterbury, New Haven County, Connecticut (Figure 3-16). The 6.9-acre parcel was purchased in 1957 and currently contains the reserve center, maintenance shop, and paved parking lot. The facility lot is bordered to the north and northeast by school grounds and a residential neighborhood and to the west, south, and southeast by steep wooded ground. The property is almost entirely surrounded by a perimeter fence.

Environmental Setting

Topography and Physiographic Zone

The Sutcovoy USARC lies within the Connecticut Valley Lowland region of the New England physiographic province. The project facility also lies within the Southwest Hills Ecoregion (Dowhan and Craig 1976). The topography of the area is predominantly a result of glacial activities that contributed to the present-day landforms and drainage patterns found throughout this area of New England. Recent man-made modifications to the landscape have altered the terrain to some degree. The relief is greatest in the northwestern portion of this region, with elevations ranging from 200 to 1,000 ft msl, and lower as the upland surface slopes gently to the coast (Flint 1930).

Bedrock, Surficial Geology, and Soils

The surficial geology is characterized by hills of moderate relief with locally rugged topography. The underlying bedrock formations in the Southwest Hills Ecoregion consists primarily of sedimentary red-brown sandstones and basalts of Triassic origin, lying in north trending ridge systems (Dowhan and Craig 1976).

The soils within the Sutcovoy USARC were formed as a direct or indirect result of glacial activity, originating from the weathering of bedrock and glacial till and the sands and gravels in glacial outwash areas. Soils within the property are classified as Charlton fine sandy loams (USDA 1979b). Charlton soils are well drained and are commonly found on broad hill tops, ridge tops, and the sides of slopes.

Housatonic River Drainage

Southwestern Connecticut is bisected by several large river drainages (the Housatonic, Quinnipiac, Naugatuck, and Saugatuck). The project facility lies 328 yards east of the Mad River, which flows into the Naugatuck River and empties into the Housatonic River.

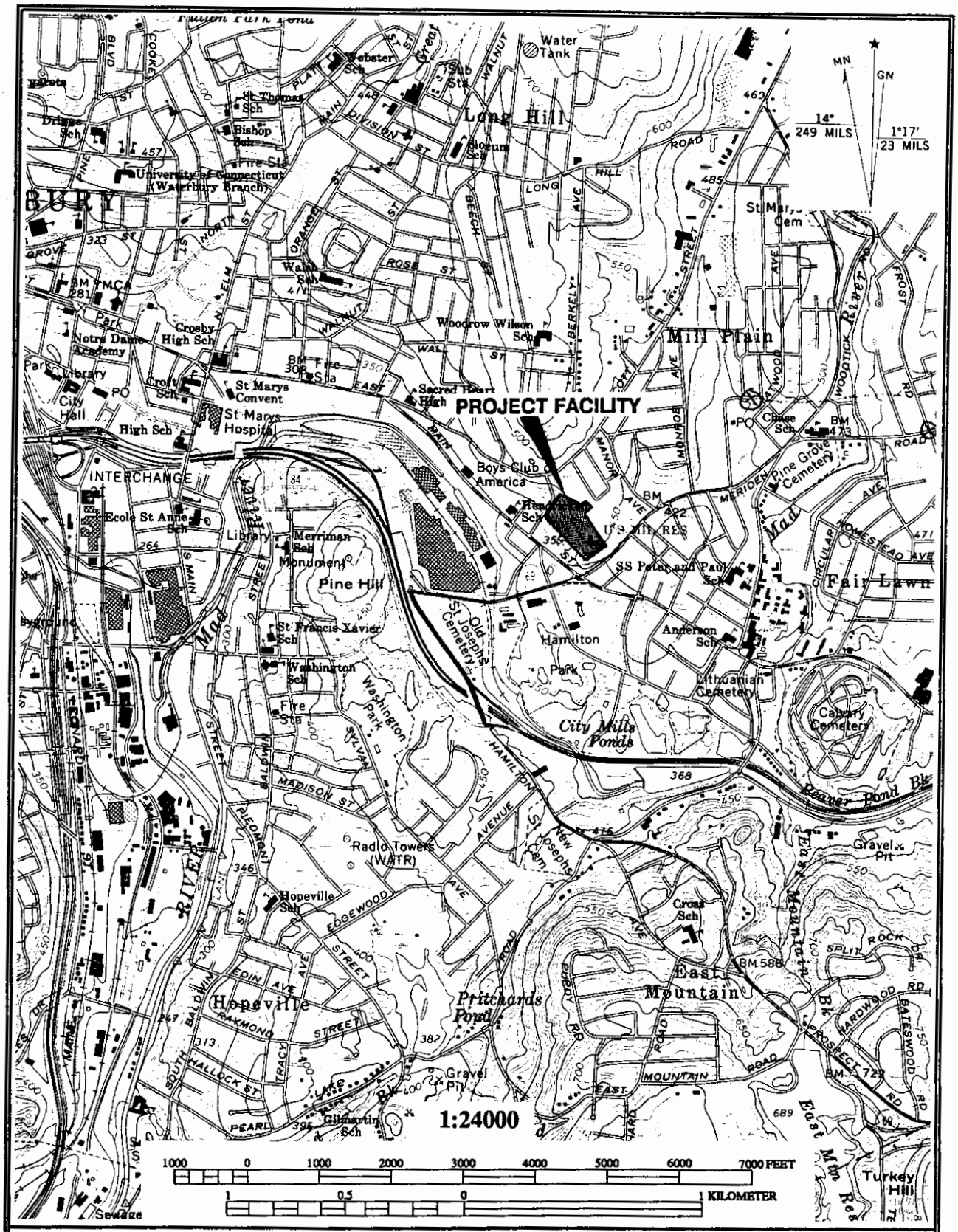


Figure 3-16. Location of the Paul J. Sutcovoy USARC (CT010) project facility on the Waterbury, Connecticut USGS topographical quadrangle, 7.5 minute series.

Prehistoric Context

Information on archaeological deposits in the Naugatuck River drainage has been gathered mainly from surface finds collected by avocational archaeologists (University of Connecticut/Storrs site files). As a result, few local sites can be accurately dated to a temporal period. An historical account of Waterbury compiled near the turn of the century notes that 32 prehistoric sites were documented within the town (Anderson 1896). CRM surveys have supplemented this record, but surveyed areas have been small and wide-spread, so systematic sampling within the town is lacking.

The archaeological record for the immediate project vicinity is composed almost exclusively of information collected during a survey along the Mad River. An archaeological study for a proposed sewer line was completed parallel to a section of the river less than 1 mile east of the project property (Hoffman 1984).

The earliest period represented in local collections maintained at the Mattatuck Historical Museum is the Middle Archaic. One diagnostic Stark and two Neville points are included, but they come from unprovenienced contexts within the Waterbury area. The points indicate that the area was being utilized by at least the Middle Archaic Period.

Several Late Archaic quartz Small Stemmed projectile points were collected from the "Mill Plain" area, in the general project vicinity (Hoffman 1984). The expanding research base indicates that during this period groups started to expand their habitations from major river drainages near the coast to upland settings along lesser rivers. This shift corresponds to an increase in the use of quartz for a wide variety of tools (Wadleigh 1981; Hoffman 1984). This material was often available in large quantities in veined outcrops in the upland region.

The only dated archaeological deposit in the immediate project vicinity is the Binette Rockshelter Site, which has Late Archaic materials in the artifact assemblage (Thompson 1969). The presence of this indicates that additional deposits dating to this period are likely located in similar environmental settings. Points collected from the Mad River area include Small Stem, Beekman Triangle, and Orient Fishtail, all manufactured from quartz.

The Middle Woodland Period is represented in local collections by a chert Jack's Reef point. A Late Woodland presence is indicated by Levanna projectile points and grit-tempered fabric-impressed aboriginal ceramics. Artifacts that appear to be agricultural tools (i.e., hoes, adzes) are also present in the museum collections; these would most likely have been used during the Late Woodland Period.

Expected Prehistoric Resources

Expected sites types within intact well-drained sandy portions of the Waterbury USARC property are most likely to be small, temporary campsites. Given the topography of the general area, rockshelter sites used for shelter and/or raw materials could also be present at outcrops or ledges within the project property. Sites

where steatite was quarried are also possible. Although prehistoric deposits could range from the Early Archaic through Late Woodland periods, a majority of identified sites in the vicinity date to the Middle Archaic through Middle Woodland periods, and any materials recovered within the project property would most likely fall within this time span.

Historic Context

Native and European cultures first came into contact around 1657. A modern map showing alleged Native American tribal boundaries (ca. 1625) indicates that the Waterbury area was located near the corner of Quinnipiac territory, bordering the land of the Paugussetts and the Tunxis (Hoffman 1984). Historical sources indicate that more than one indigenous group inhabited this area: of the six different purchases of Indian land are recorded in deeds from 1657 to 1714, one reads, "...the Indians above mentioned must free the purchasers from all Claymes by any other Indians." (Bronson 1858:3 cited in Hoffman 1984:16).

The area was known by the indigenous name Mattatuck until 1686, when the town of Waterbury was incorporated. The first European settlers in the town came from Farmington. As early as 1657, families from the center of Farmington obtained Indian deeds to land well outside of the town. The hills of Waterbury were rumored to contain "black lead" (graphite), and land here was thus in high demand by industrious colonists (Rockey 1892). Though the graphite deposits turned out to be less than productive, early settlers took advantage of the abundant water power within the town.

The initial settlement of the Mattatuck Plantation, located on both sides of the Naugatuck River, occurred in 1678. The original proprietors included Edward Scott and his son Edmund, who received land along the "Roaring River," now called Mad River. The 600 acre plantation was divided into 2 or 3-acre parcels and given to each proprietor.

Settlers arrived in large numbers; 1686 the town center was set off and common lands established. An early-eighteenth-century map of the town of Waterbury includes parts of present day Naugatuck, Watertown, and Wolcott (Hoffman 1984). The early settlers had established a sawmill on the Mad River by 1695. Ties to the parent community at Farmington were still strong: the mill was built at the junction of the river and the path to that town. This mill remained in operation until at least 1896 (Hoffman 1984).

Early town histories indicate that the colonists had a number of skirmishes with local Native Americans. For all of the seventeenth and the early part of the eighteenth centuries, Waterbury existed as a frontier town, and thus was subject to attack by many groups. Barber (1838) and Rockey (1892) both discuss the fortification of the town, and also relate accounts of colonists being kidnapped, tortured and murdered. While these histories represent the bias of Anglo interpretation, the population figures for Waterbury during this period do show a decline. Until the 1730s, Waterbury consisted of less of than 200 residents. Rockey (1892) writes that the town's reputation was so bad that large grants of farmland were given to young men who agreed to settle there.

The town did not really grow until the Revolutionary War era. Between 1713 and 1774, the population increased from 180 to 3,536. A slight decline occurred between 1774 and 1840, after which the population rose steadily into the twentieth century (Rockey 1892). The population figures were also affected by the separation of the original town of Waterbury into several smaller towns. In 1780 Watertown was set off; in 1795 Plymouth was created. Other new communities created from colonial Waterbury included Middlebury in 1807, Prospect in 1827, and Naugatuck in 1844. By 1850 Waterbury's population had reached 5,137 individuals (Census of 1850). The major commercial and civil center remained in Waterbury proper, which served as the focus of the smaller communities. In 1853, a city charter was granted to Waterbury, and a new City Hall was built in 1871 to house local government.

The reliance on mill power is evident in the town's manufacturing history. The original sawmill from 1695 was used as a gun factory between 1780 and 1800, then switched to manufacturing buttons until 1830. A leatherworks was in operation throughout most of the nineteenth century. The arrival of the New York and New England Railroad in 1849 put Waterbury on the map as a major manufacturing power (Figure 3-17). The Naugatuck Valley line connected Waterbury to Bridgeport and Hartford, both about 30 miles away. A link to the station in Cromwell, on the Connecticut River, gave Waterbury goods access to water transport as well.

Waterbury maintained a good deal of agricultural income throughout this period of rapid industrial growth. The Mill Plain section on the eastern side of the city remained in use as field and pasture, as well as for suburban housing and social development. Satellite manufacturing areas were started in Plattsville, Simonsville, and Waterville.

Manufacturing interests diversified during the mid to late nineteenth century. Button manufacturing became a major industry during the early part of the century, and the heavy reliance on brass and copper as materials led to an increase in metal processing. Concentrated in the Waterbury valley, copper manufacturing emerged as the leading industry. By the end of the nineteenth century, Waterbury produced more brass than any other East Coast city. In fact, the town's factories produced seventy percent of the country's brass during this period and almost single-handedly supported the local economy (Rockey 1892).

The industry became so diversified that Rockey devotes three pages of his history to the names of metal companies and the goods they produced. In 1892, there were six companies producing buckles, nine producing buttons, one bronze ornaments, five German silver and gilding metal, twelve hardware, and twelve cutlery.

Although modern manufacturing did not rely solely on water power, the importance of the larger rivers to the city is apparent in its history. A major flood along the Mad River in 1955 caused extensive damage, and only after its cleanup did residential development on the eastern banks begin. This period also marked a boom in the construction of suburban homes within Waterbury as agricultural lands were sold and developed.

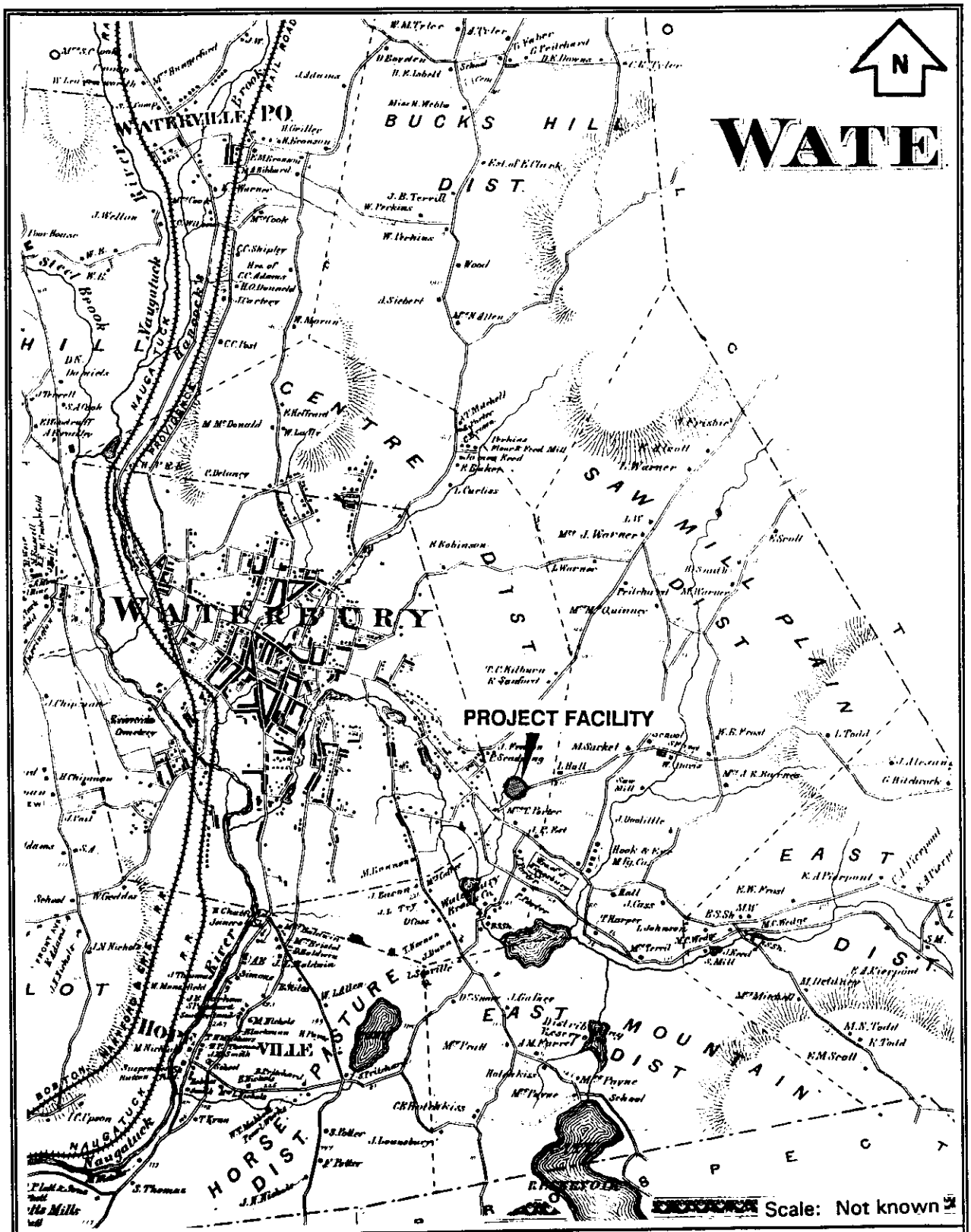


Figure 3-17. 1867 map of Waterbury, Connecticut with the location of the Paul J. Sutcovoy (CT010) project facility (source: Beers, Ellis and Sale, 1867).

Expected Historic Resources

A review of town histories and nineteenth and early-twentieth-century maps of Waterbury (Barber 1838; Irvine 1852; Beers 1867; Rockey 1892; Bureau of Engineers 1943; Hoffman 1984) and facility files indicates an absence of documented historic period sites within the Paul J. Sutcovoy USARC property. However, the project property is located near Native American Contact Period trails and later EuroAmerican Colonial Period settlement. The presence and integrity of any under-documented historic resources within the Paul J. Sutcovoy USARC property is dependent on the degree of ground disturbance related to facility construction and associated earthmoving activity.

Results of Previous Archaeological Studies

The 1979 archaeological survey of the Sutcovoy facility reported that all but 10,000 sq m of the property was disturbed (Hammer 1983). The seven test pits excavated within the possibly undisturbed area yielded no cultural materials and revealed that the surface soils had been striped. Based on these results, further archaeological investigations of the parcel was not recommended.

Results of Validation Survey

The validation survey included a walkover of the facility to reassess the previous determination of low sensitivity and recommendation for no further work. A total of nine shovel turnovers was used to verify the presence of disturbed soils throughout the facility (Figure 3-18). The profiles revealed mottled compact disturbed fill soils throughout the property (see Appendix B). Based on the walkover survey, informant interview, and shovel turnovers, it was determined that a majority of the property has been severely disturbed as a result of construction activities related to the two buildings, paved parking area, underground utilities, contaminated soil clean-up and replacement, and modern dumping and earthmoving (Roy Givens, personal communication). The remaining grounds of the property consist of steep, wooded slope and bedrock outcrops (see Figure 3-18).

Conclusion/Recommendation

Based on the degree of previous disturbance, it was confirmed that this facility possesses a low archaeological sensitivity for intact cultural resources. No further archaeological investigation is recommended.

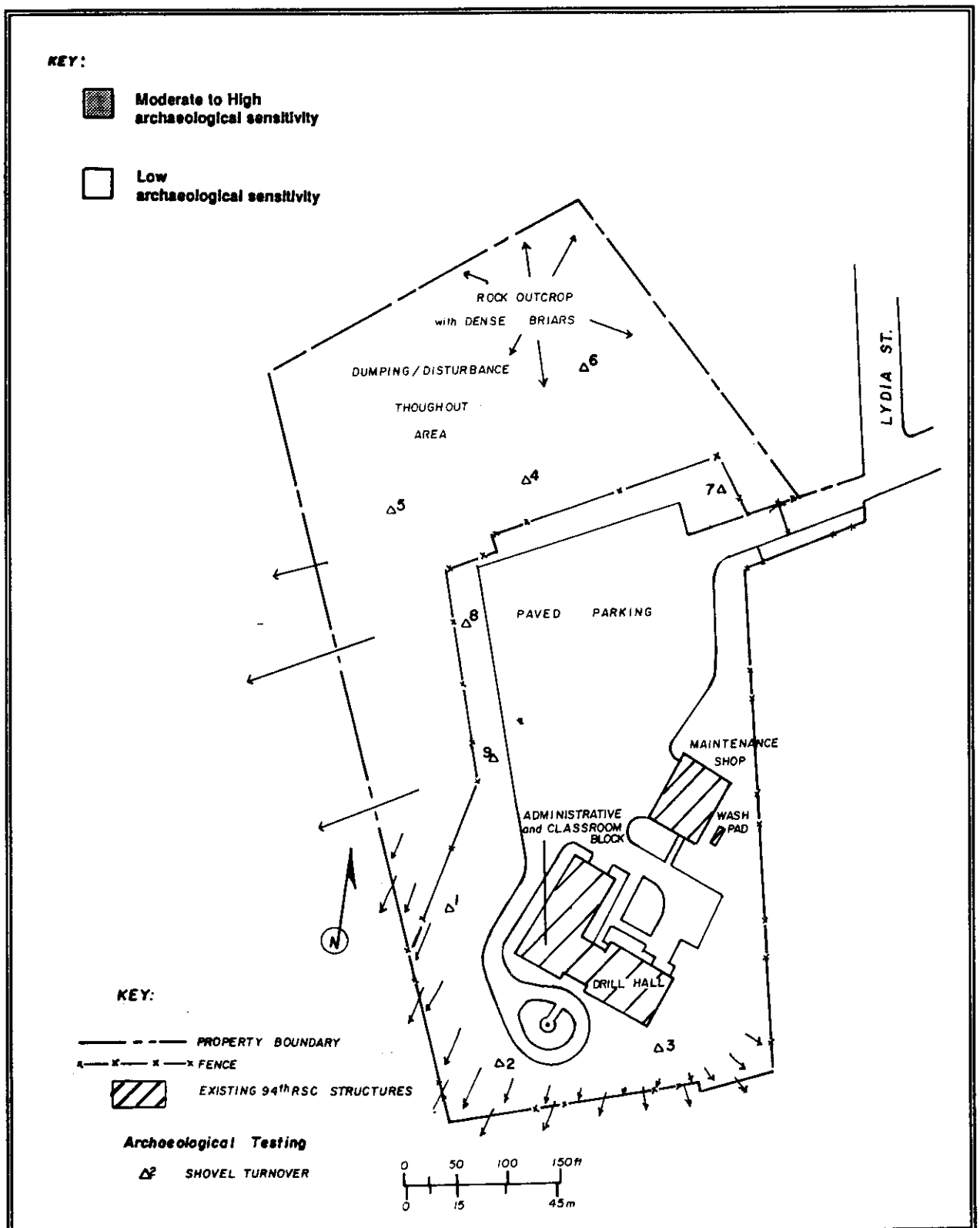


Figure 3-18. Paul J. Sutcovoy USARC (CT010) project facility, showing the location of shovel turnovers and archaeological sensitivity.

FINAL

ASBESTOS SURVEY REPORT
AND OPERATIONS AND MAINTENANCE PLAN
PAUL J. SUTCOVOY ARMY RESERVE CENTER
LYDIA STREET EXTENSION
WATERBURY, CONNECTICUT

CONTRACT NO. DACA33-91-D-0006
DELIVERY ORDER NO. 42

JUNE 1998

ASBESTOS SURVEY REPORT

AND

OPERATIONS AND MAINTENANCE PLAN

PAUL J. SUTCOVOY ARMY RESERVE CENTER

LYDIA STREET EXTENSION

WATERBURY, CONNECTICUT

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ASBESTOS SURVEY REPORT

AND

OPERATIONS AND MAINTENANCE PLAN

PAUL J. SUTCOVOY ARMY RESERVE CENTER

LYDIA STREET EXTENSION

WATERBURY, CONNECTICUT

Conducted for:

Harding Lawson Associates
(formerly ABB Environmental Services, Inc.)
Corporate Place 128
107 Audubon Road
Wakefield, Massachusetts 01880

Surveys Performed by:

Covino Environmental Consultants, Inc.
300 Wildwood Avenue
Woburn, Massachusetts 01801

CEC Project 94.01163.28

CONTENTS

PAGE

Executive Summary 1

Figure 1. Vicinity Map

Figure 2. Site Location Map

Glossary

Introduction 3

1. Site Description 5

2. Sampling Methods 6

3. Laboratory Analytic Methods and Results 9

Table 1. Inventory of Suspect ACBM 11

Table 2. Inventory of ACBM 15

4. Conclusions and Recommendations 17

Table 3. Cost Estimates 18

Appendix A. Results of Bulk Sample Analysis

Appendix B. Drawings Depicting Sample and ACBM Locations

Appendix C. Photographic Documentation

Appendix D. Asbestos Prioritization Forms

Appendix E. Personnel and Laboratory Certificates

Appendix F. Operations and Maintenance Plan

EXECUTIVE SUMMARY

The U.S. Army Corps of Engineers retained ABB Environmental Services, Inc. (ABB-ES) of Wakefield, Massachusetts to perform asbestos surveys of 41 Army Reserve Centers (ARCs) throughout New England during September, October, November, and December, 1994. ABB-ES subcontracted with Covino Environmental Consultants, Inc. (CEC) to accomplish this task.

The objective of this task is twofold. First, the site-specific surveys will provide the Army with information concerning the extent of asbestos-containing building materials (ACBM) at each facility, a hazard assessment, and an operations and maintenance (O&M) plan to properly address potential concerns. Second, the summary reports prepared for each facility will provide the information necessary to plan future remediation efforts at the facilities on a worst-first basis.

The facility surveyed for this report was the Paul J. Sutcovoy ARC, Lydia Street Extension, Waterbury, Connecticut. The facility consists of a Main Building and a Maintenance Building (OMS).

The Main Building at the site is used primarily for offices, classrooms, and an assembly hall. The heating, ventilation, and air conditioning (HVAC) system includes a combination of radiators and air handlers supplied by an oil-fired boiler. The Main Building has 14,000 square feet of floor space. Facility plans indicate the Main Building was constructed in 1953.

The OMS is used for maintenance. The date of construction of the OMS is unknown. The OMS has 2,800 square feet of floor space. The only HVAC in the building are gas-fired, ceiling-mounted blower units.

Timothy Downey and Benjamin Lombard of CEC conducted the survey on September 26, 1994. The CEC inspectors performed visual inspections of all accessible interior areas, exterior areas, and rooftop areas. Observations were made for thermal system insulations, surfacing materials, and miscellaneous materials within mechanical spaces, office areas, classrooms, and maintenance areas. Whenever feasible, the spaces above suspended ceilings, within wall chases, high bay areas, etc., were also inspected. Because inspection was limited in such areas, assumptions about these areas were sometimes based on information contained in as-built drawings. No destructive sampling was conducted as part of this survey.

Representative bulk samples of each type of suspect ACBM observed were collected for laboratory analysis. To determine asbestos content, the samples were analyzed using Polarized Light Microscopy with Dispersion Staining (PLM/DS) in accordance with EPA protocol. Suspect materials were classified as ACBM if the analytical results indicated an asbestos content of greater than one percent. If PLM/DS analytical results of floor tiles or

EXECUTIVE SUMMARY (cont.)

mastic adhesives indicated an asbestos content of one percent or less, additional analysis by Transmission Electron Microscopy (TEM) was performed to more definitively determine the asbestos content of these materials.

Friable ACBM (materials that, when dry, can be reduced to powder by hand pressure) identified at the site include block-type pipe insulation and mudded pipe fittings noted in the women's restrooms and kitchen. Similar insulations may be located in well cavities of locations where access was limited. Nonfriable ACBM included floor tiles and underlying mastic adhesives in the main building and asbestos-cement (transite) board and window caulking in the OMS.

CEC's assessment of the friable mudded piping insulation and block-type pipe insulation is that these materials are accessible and are readily susceptible to disturbance and fiber release. CEC's assessment of the Waterbury site is that the condition of most nonfriable ACBM presents limited potential hazard. A section of damaged floor tiles observed in the basement hallway of the Main Building may, in the near future, be readily susceptible to disturbance and fiber release. Based on the results of the assessment, remedial actions are recommended at this time. To minimize potential hazards, the O&M plan (Appendix F) should be implemented.

For informational purposes only, cost estimates have been provided for removing and replacing ACBM (Table 3). The total estimated cost for removing and replacing friable ACBM is $560. The total estimated cost for removing and replacing nonfriable ACBM is $20,960.

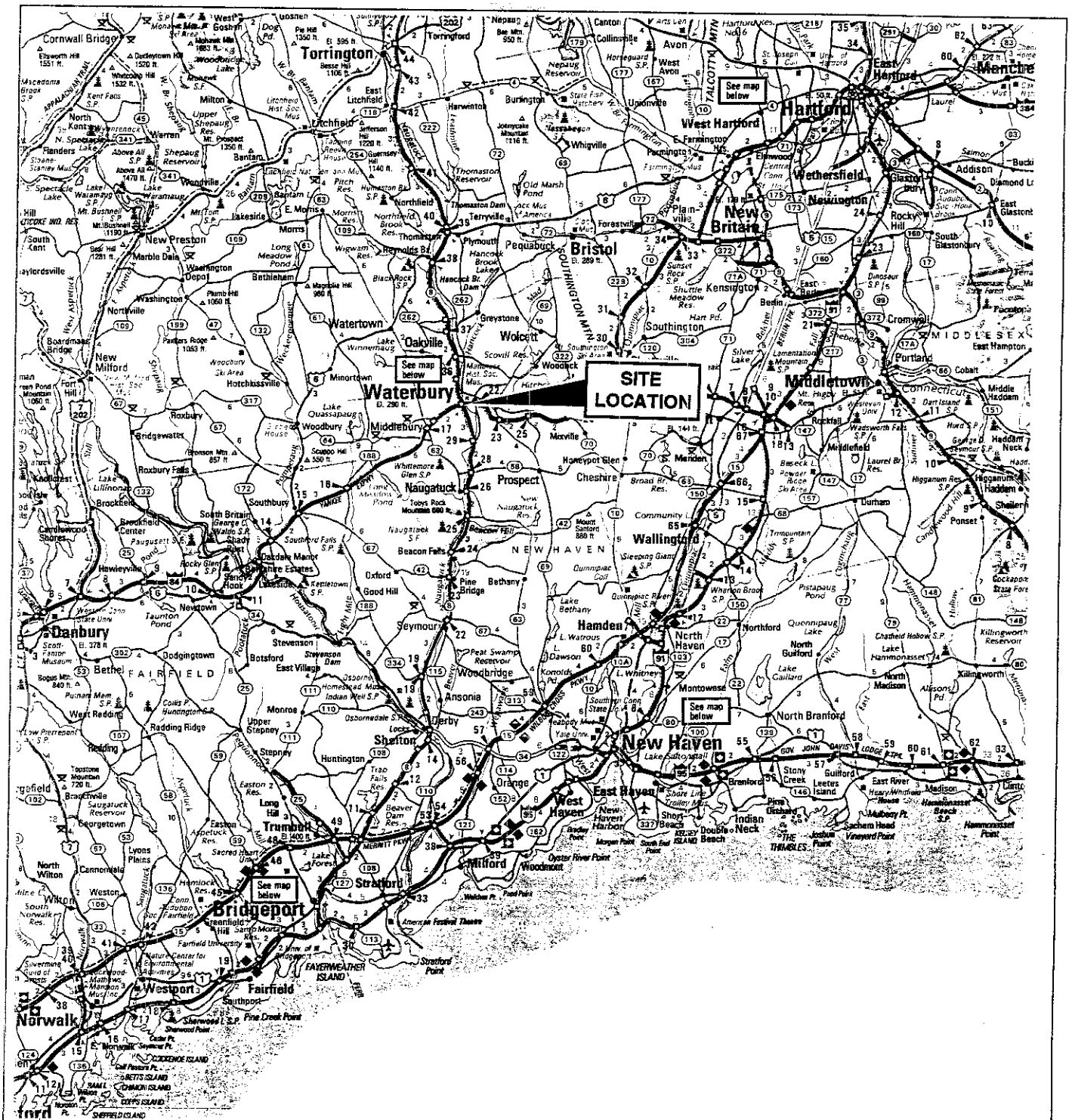
LIMITATIONS

Due to several limitations further survey work will be required if future renovation or maintenance activities occur which result in demolition of any part of the existing building structure. These limitations include:

A. Since no core samples of roofing material were collected, only exposed surfaces of the roof were inspected;

B. Potentially hidden areas, such as wall cavities, the space between fixed ceilings and the ceiling deck, internal equipment and parts, etc. may contain ACBM that was not accessible during the survey; and,

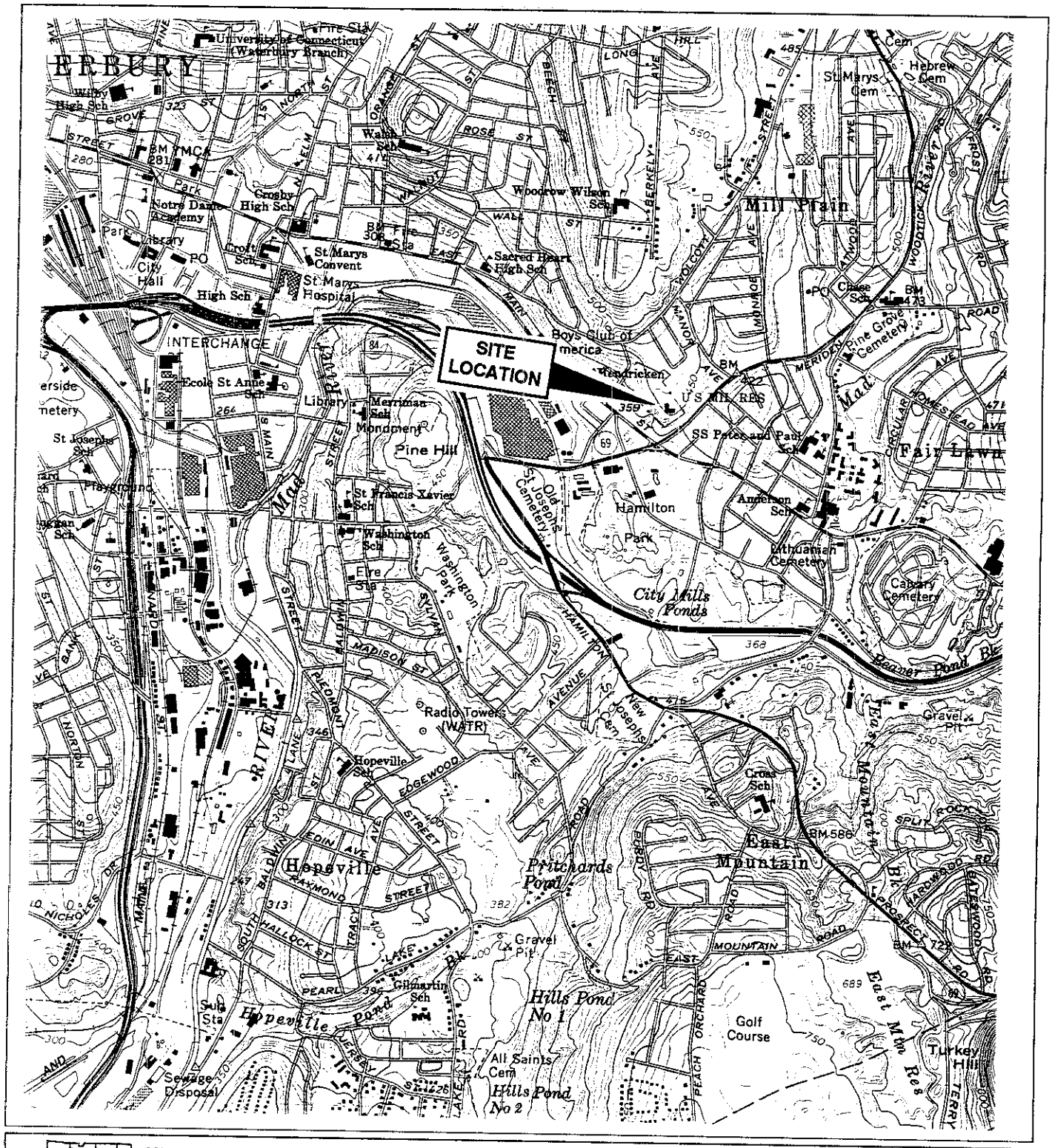
C. The inner cavities of fire doors, which sometimes contains ACBM insulation, were not inspected.

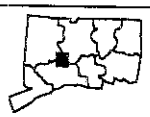


SOURCE: RAND McNALLY

ABB Environmental Services, Inc.

FIGURE 1
VICINITY MAP
ASBESTOS SURVEY REPORT
PAUL J. SUTCOVOY ARMY RESERVE CENTER
LYDIA STREET EXTENSION
WATERBURY, CONNECTICUT





QUADRANGLE LOCATION

SOURCE: U.S.G.S. TOPOGRAPHIC 7.5 MINUTE SERIES: WATERBURY, CT 1968, PH. 1984

SCALE IN MILES 0 .5 1

SCALE IN FEET 0 1,000 2,000

N

ABB Environmental Services, Inc.

FIGURE 2
SITE LOCATION MAP
ASBESTOS SURVEY REPORT
PAUL J. SUTCOVOY ARMY RESERVE CENTER
LYDIA STREET EXTENSION
WATERBURY, CONNECTICUT

GLOSSARY

1. Asbestos - Includes chrysotile, amosite, crocidolite, tremolite asbestos, anthophyllite asbestos, actinolite asbestos, and any of these materials that have been chemically treated and/or altered.

2. Asbestos-Containing Material (ACM) - material composed of asbestos of any type and in any amount greater than 1% by area, either alone or mixed with other fibrous or nonfibrous materials.

3. Asbestos-Containing Building Material (ACBM) - Surfacing ACM, thermal system insulation ACM or miscellaneous ACM that is observed in or on interior structural members or other parts of a building.

4. Asbestos-Contaminated Area - Any surface/area where visibly damaged friable asbestos material is present.

5. Bulk Sample - A small portion of suspect ACM collected and placed into an airtight container for microscopic analysis.

6. Cellulose - Vegetative, plant fibers; paper, cotton, etc.

7. Fibrous Glass - Man made; spun or extruded from a resin.

8. Friable Asbestos Material - Any ACM that can be crumbled, pulverized or reduced to powder when dry, by hand pressure, and which releases asbestos particles to the environment.

9. Homogenous Area - A material that is uniform in texture and appearance, was installed at one time, and is unlikely to consist of more than one type or formulation of material.

10. Miscellaneous ACM - Any ACM which is not categorized as thermal system insulation or surfacing insulation.

11. Nonfriable Asbestos Material - Any ACM that cannot be crumbled, pulverized or reduced to powder when dry, by hand pressure.

12. Point Counting - A microscopic method of bulk sample analysis using a systematic, statistical approach to determine the percentage concentration of asbestos in a friable suspect ACM.

13. Polarized Light Microscopy - An optical microscopic technique used to distinguish between different types of asbestos fibers by their shape and unique optical properties.

GLOSSARY (cont.)

14. Resinously Bound Material - A material which is held together in a resinous matrix (e.g., mastic adhesive, roof flashing, etc.).

15. Surfacing ACM - An ACM which is spray or trowel-applied to a surface for acoustical, decorative or fireproofing purposes

16. Transmission Electron Microscopy (TEM) - A method of microscopic analysis which utilizes an electron beam that is focused onto a thin sample. As the beam penetrates (transmits) through the sample, the difference in densities produces an image on a fluorescent screen from which asbestos structures can be identified and quantified.

17. Thermal System Insulation ACM (TSI) - Any ACM which is applied to heating or mechanical equipment for the purpose of retaining heat or condensation.

18. Transite - An asbestos-cement board product. Typically applied in cooling towers, above heating elements, beneath wood floors, as wall board, etc.

INTRODUCTION

The U.S. Army Corps of Engineers retained ABB Environmental Services, Inc. (ABB-ES) of Wakefield, Massachusetts to perform asbestos surveys of 41 Army Reserve Centers (ARCs) throughout New England during September, October, November, and December, 1994. ABB-ES subcontracted with Covino Environmental Consultants, Inc. (CEC) to accomplish this task.

The purpose of these surveys is to identify, quantify, and assess materials at each site that are suspected of containing asbestos fibers and, when asbestos-containing building materials (ACBM) are identified, to prioritize their need for removal.

On September 26, 1994, two inspectors representing CEC performed an asbestos survey of the Paul J. Sutcovoy ARC located on Lydia Street Extension, Waterbury, Connecticut.

Timothy Downey performed the survey, assisted by Benjamin Lombard. Each inspector is appropriately accredited to perform building inspections through having successfully completed an EPA-approved asbestos inspection training course.

On the day of the inspection, the survey team met with the facility manager, who provided information regarding the site as well as access to the buildings.

This report contains a description of the site (section 1), a discussion of the sampling methods (section 2), a description of the laboratory analytical methods and results (section 3) and conclusions and recommendation (section 4).

The results of the survey are summarized in tabular form (section 3). Table 1, the Inventory of Suspect ACBM, provides a list of all suspect ACBM encountered by the CEC inspectors during the survey, the locations in which the materials were observed, their sample number(s), the materials' friability, and the analytical results for each type of suspect material. A suspect material was classified as an ACBM if PLM/DS analysis of one or more samples indicated the presence of asbestos in quantities greater than one percent.

Table 2, the Inventory of ACBM, presents the list of positively identified ACBM, including material location, condition, and accessibility. The assessment rating for exposure to each type of ACBM is based on the United States Army Environmental Center (USAEC) prioritization criteria.

A floor plan of the Main Building and a hand-drawn sketch of the OMS were used to depict the locations of samples and of ACBM during the inspection.

INTRODUCTION (cont.)

CEC's conclusions and recommendation are stated in the section 4. Table 3 presents CEC's cost estimates for totally removing and replacing ACBM identified during the survey.

Appendices A through F present bulk sample analytical results, drawings depicting locations of samples and of ACBM, photographic documentation, asbestos prioritization forms, personnel and laboratory certifications, and the operations and maintenance plan.

1. SITE DESCRIPTION

The Paul J. Sutcovoy Army Reserve Center in Waterbury, Connecticut consists of a Main Building and a Maintenance Building (OMS). Facility plans indicate that the Main Building was constructed in 1953. No plans are available for the OMS.

The Main Building has a first floor and a basement with a total floor space of 14,000 square feet. The first floor is used primarily for offices and classrooms, and it also contains an assembly hall. The basement contains additional office space, storage rooms and an arms vault. The building is a concrete structure with brick exterior. The first level has a hardwood floor; the basement has a concrete floor. Building finishes include gypsum-board walls and ceilings. Floor finishes were vinyl and ceramic tile.

Heating is supplied in the Main Building by a boiler located in a boiler room in the basement and distributed through forced hot water supply-and-return piping to perimeter radiators.

Both friable and nonfriable ACBM were identified within the Main Building. The friable ACBM includes mudded pipe fitting insulation and block-type pipe insulation in the kitchen and women's restrooms, and the nonfriable ACBM included floor tiles and underlying mastic adhesive located in the first floor vestibule, lobby and kitchen, and in the basement main corridor and locker rooms.

The OMS is a one-story structure used for maintenance work. The building is a concrete and brick structure with 2,800 square feet of floor space. It has concrete block walls and concrete floors. The building is heated by two ceiling-mounted blower units.

Nonfriable ACBM observed in the OMS included white window caulking on the rear windows and transite board on the ceiling above the blower units. No friable ACBM were noted.

2. SAMPLING METHODS

The purpose of the survey was to identify both friable and nonfriable ACBM at the site.

In the course of collecting random bulk samples for laboratory analysis, every effort was made to identify all locations and types of suspect ACBM. All building materials other than wood, plastic, metal, rubber, glass, and most masonry products were considered to be suspect ACBM. Sampling often included multiple samples of the same type of material because inconsistencies in manufacturing processes and installation practices may have resulted in materials of similar construction having varied asbestos content.

Both the interior and exterior of each building were inspected. The survey included observations for the following types of suspect ACBM:

- thermal system insulation on pipes, tanks, boilers, and similar items;
- surfacing materials such as acoustical and decorative plasters, fireproofing on beams, columns, and ceiling decks, and other coatings applied by spray or trowel;
- miscellaneous friable materials such as ceiling tiles, gypsum wallboards, joint compounds, cloth gaskets, blown-in insulations, etc.; and
- miscellaneous nonfriable materials such as floor tiles, adhesives, cementitious wallboards, asphaltic roofing materials, etc.

To prevent the potential for future water leaks, bulk samples of asphaltic roofing materials were collected in such a manner that the integrity of the roofing system was not compromised. This was conducted by only collecting samples of flashings, shingles or the surface layer. Core sampling through the entire thickness of roofing systems was not performed. Asphaltic roofing materials that were not sampled should be assumed to contain asbestos, unless bulk sampling and analysis indicate otherwise.

Some friable building materials, such as fireproofing and most thermal insulations installed in 1980 or later, were not considered to be suspect ACBM. Stored materials (gaskets, brake pads, gloves, etc.) that may contain asbestos but are not building materials were not included in the survey.

Since asbestos content of building materials was to be determined by the laboratory analysis of random bulk samples (RBS), CEC used a sampling protocol based on the following requirements of the Asbestos Hazard Emergency Response Act (AHERA):

2. SAMPLING METHODS (cont.)

A. Surfacing Material

1. At least three (3) RBS per type of material in each homogeneous area less than or equal to one thousand square feet (1,000 ft^2).

2. At least five (5) RBS per type of material in each homogeneous area greater than one thousand square feet (1,000 ft^2), but less than or equal to five thousand square feet (5,000 ft^2).

3. At least seven (7) RBS per type of material in each homogeneous area greater than five thousand square feet (5,000 ft^2).

B. Thermal System Insulation

1. At least three (3) RBS per type of homogeneous material.

2. At least one (1) RBS per type of patched thermal system insulation if the patched section is less than six linear or square feet (6 lf or 6 ft^2).

3. In a manner sufficient to determine whether the material is or is not ACBM, RBS from each mechanical system where cement or plaster is used on fittings such as tees, elbows, or valves.

4. Bulk samples were not collected of materials determined by visual and tactile inspection to be fiberglass, foam glass, rubber, or other materials that, because of their unique textures and colors, may be visually identified as non-ACBM. However, these materials are inspected to determine whether a layer of asbestos may be underneath the top layer of insulating material or whether an external skim coat exists.

C. Miscellaneous Material

Samples were collected in a manner sufficient to determine whether the material is ACBM or non-ACBM. The number of samples collected was influenced by the type and quantity of the suspect material.

2. SAMPLING METHODS (cont.)

Bulk sampling of suspect building materials was performed by collecting a small but representative portion of material into plastic vials with tightly fitting caps that were sealed immediately after sample collection. Insulation and other friable samples were collected using a knife with a lockable blade or a single-use hollow metal coring device. After sample collection, sampling devices were immediately cleaned to prevent cross-contamination of samples. Each sample was assigned a unique number that was recorded on the sample container. The sample number and location were also recorded on field data sheets. The locations from which bulk samples were collected were sealed with duct tape, caulking compound, or other suitable materials. Sample locations were labeled with the date and unique sample number using indelible markers. Samples were then transported and submitted to the CEC laboratory in Woburn, Massachusetts for microscopic analysis.

3. LABORATORY ANALYTIC METHODS AND RESULTS

Laboratory analyses were conducted on October 3, 1994, within ten working days of the site visit.

In order to identify asbestos content, samples were initially analyzed using Polarized Light Microscopy with Dispersion Staining (PLM/DS) in accordance with the United States Environmental Protection Agency's (EPA) Interim Method for the Determination of Asbestos in Bulk Insulation Samples (EPA 600/M4-82-020). A building material was classified as an ACBM if one or more samples indicated a result of greater than one percent (> 1%) asbestos.

In instances where multiple bulk samples were collected from the same homogenous area, if the analytical result of the initial sample indicated the presence of asbestos at a concentration greater than one percent, subsequent bulk samples were not analyzed.

The EPA method is considered sensitive to the presence of asbestos at less than one percent of the overall sample composition for materials (a) that do not contain resinous matrices, and (b) that have asbestos fibers greater than one micrometer in diameter (> 1 μm).

For resinously bound materials, or for materials that may have very thin asbestos fibers (< 1 μm), PLM/DS analysis may yield false negative results due to difficulties in separating suspect fibers from the resins that bind them. False negative results may also occur when the analyst is unable to detect very fine fibers due to the limits of resolution of the microscope used for PLM/DS analysis. Samples of floor tiles and floor tile adhesives are particularly difficult to analyze using PLM/DS. These materials contain resinous matrices, and they also typically contain very thin fibers due to grinding and other shearing processes conducted during manufacture. To positively identify the asbestos content of these types of materials, Transmission Electron Microscopy (TEM) is the preferred method. TEM provides greater resolution along with an elemental analysis of suspect fibers to identify asbestos.

Because of the aforementioned limitations of PLM/DS, samples of floor tiles and floor tile mastics were analyzed by TEM if the initial analytical results indicated an asbestos content of one percent or less. Briggs Associates, Inc. of Atlanta, Georgia conducted the TEM analysis using a semi-quantitative analysis. Results are reported as no asbestos detected, or as a light, moderate or heavy concentration of asbestos. If any asbestos is detected using this method, the material in all probability contains greater than one percent asbestos and is therefore, classified as an ACBM.

The EPA requires that samples of friable materials having an asbestos content of ten percent or less, as determined by visual estimation, be verified by the point-counting technique. Otherwise, the building owner or operator should assume that such materials contain greater than one percent asbestos. Therefore, friable samples with analytical results containing one percent or less asbestos were analyzed by point-counting before disturbing the material. Point-counting is a systematic technique for estimating asbestos concentrations using PLM/DS.

3. LABORATORY ANALYTIC METHODS AND RESULTS (cont.)

A summary of the laboratory results are presented in Table 1, and the complete laboratory results are included in Appendix A.

In addition to identifying asbestos content, the survey quantified and assessed all ACBM identified at the site. Each type of ACBM was individually assessed using the United States Army Environmental Center (USAEC)-ACBM Assessment Checklist in order to determine priorities for remedial action. This checklist evaluates a suspect material based on damage factors and release factors. Damage factors include the physical condition of the materials, water damage, potential for human contact in terms of maintenance activity, type of material, and asbestos content. Release factors include friability, accessibility, activity, air movement, quantity, population potentially affected, and asbestos content. For each assessment factor, a numerical score is given. The numerical scores for both assessment categories have been totaled. In order to determine the Assessment Index (a letter designation from A to F), these totals are compared. "A" indicates a material with the highest priority for remedial action. "F" indicates a material with the lowest priority for remedial action. The results of this assessment/inventory are presented in Table 2.

TABLE 1

INVENTORY OF SUSPECT ACBM

Paul J. Sutcovoy Army Reserve Center
Lydia Street Extension
Waterbury, Connecticut

September 26, 1994

Description of Suspect Material	Material Location	Material Classification	Friability	Sample Number(s)	Asbestos Content and Type
MAIN BUILDING					
Red & white 9" x 9" floor tile and underlying mastic adhesive	Vestibule	M	Nonfriable	28-01-01(tile) 28-02-01(mastic)	03% Chrysotile None detected TEM slight Chrysotile
Brown & white 9" x 9" floor tile and underlying mastic adhesive	Lobby, Basement Hallway and Rooms	M	Nonfriable	28-03-01(tile) 28-04-01(mastic)	03% Chrysotile 01% Chrysotile
Beige, white & brown 9" x 9" floor tile and underlying mastic adhesive	Kitchen	M	Nonfriable	28-05-01(tile) 28-06-01(mastic)	02% Chrysotile None detected TEM slight Chrysotile
Gray mudded fitting insulation on domestic water line	Kitchen	T	Friable	28-1-1 28-1-2	Chrysotile Chrysotile
Tan, white & brown 9" x 9" floor tile and underlying mastic adhesive	Kitchen (under sink only)	M	Nonfriable	28-07-01(tile) 28-08-01(mastic)	None detected TEM none detected < 01% Chrysotile TEM moderate Chrysotile

T = Thermal System Insulation
S = Surfacing Material
M = Miscellaneous Material

TABLE 1

INVENTORY OF SUSPECT ACBM

Paul J. Sutcovoy Army Reserve Center
Lydia Street Extension
Waterbury, Connecticut

September 26, 1994

Description of Suspect Material	Material Location	Material Classification	Friability	Sample Number(s)	Asbestos Content and Type
MAIN BUILDING					
White block-type insulation on heating pipe	Women's restroom first floor & basement	T	Friable	28-2-1 28-2-2	40% Amosite Not analyzed
White fiberglass seam sealant	Assembly Hall, Boiler Room	T	Nonfriable	28-09-01 28-09-02	None detected None detected
Water tank insulation	Boiler Room	T	Friable	28-10-01 28-10-02 28-10-03	None detected None detected None detected
Breeching insulation	Boiler Room	T	Friable	28-11-01 28-11-02 28-11-03	None detected None detected None detected
Gypsum board	Boiler Room	M	Friable	28-12-01 28-12-02	None detected None detected
Ceramic tile grout	Bathrooms	M	Nonfriable	28-13-01	None detected

T = Thermal System Insulation
S = Surfacing Material
M = Miscellaneous Material

TABLE 1

INVENTORY OF SUSPECT ACBM

Paul J. Sutcovoy Army Reserve Center
Lydia Street Extension
Waterbury, Connecticut

September 26, 1994

Description of Suspect Material	Material Location	Material Classification	Friability	Sample Number(s)	Asbestos Content and Type
MAIN BUILDING					
Gypsum board	Learning Center	M	Friable	28-14-01	None detected
Black exterior window caulking	Windows	M	Nonfriable	28-15-01	None detected
Tan compressed paper pipe insulation	Throughout	T	Friable	28-19-01 28-19-02 28-19-03	< 01% Chrysotile None detected None detected
Black asphalt shingle	Roof	M	Nonfriable	28-20-01	None detected

T = Thermal System Insulation
S = Surfacing Material
M = Miscellaneous Material

TABLE 1

INVENTORY OF SUSPECT ACBM

Paul J. Sutcovoy Army Reserve Center
Lydia Street Extension
Waterbury, Connecticut

September 26, 1994

Description of Suspect Material OMS	Material Location	Material Classification	Friability	Sample Number(s)	Asbestos Content and Type
Green cement board	Above two ceiling-mounted heater units	M	Nonfriable	28-16-01	07% Chrysotile
Tan compressed paper pipe insulation	Throughout	T	Friable	28-17-01 28-17-02 28-17-03	None detected None detected None detected
White window caulking	Windows	M	Nonfriable	28-18-01	02% Chrysotile

T = Thermal System Insulation
S = Surfacing Material
M = Miscellaneous Material

TABLE 2

INVENTORY OF ACBM

Paul J. Sutcovoy Army Reserve Center
Lydia Street Extension
Waterbury, Connecticut

September 26, 1994

Description of ACBM	ACBM Location	Material Classification	Approximate Quantity	Condition	Accessibility	Material Exposure Assessment Rating*
MAIN BUILDING						
9" x 9" floor tile and underlying mastic adhesive (various types)	Vestibule, Lobby, Kitchen, Basement hallway & rooms	M	4,000ft^2	Fair	High	D
Gray mudded fitting insulation	Kitchen	T	10 lf	Fair	High	C
White block-type insulation	Women's restrooms	T	18 lf	Fair	High	B

T = Thermal System Insulation
S = Surfacing Material
M = Miscellaneous Material

* Assessment Index: Materials assigned an alphabetical exposure assessment rating from A to F based on damage and fiber release factors, with A representing a material with the highest priority for remedial action and F representing a material with the lowest priority for remedial action (See Appendix D for additional details).

TABLE 2

INVENTORY OF ACBM

Paul J. Sutcovoy Army Reserve Center
Lydia Street Extension
Waterbury, Connecticut

September 26, 1994

Description of ACBM OMS	ACBM Location	Material Classification	Approximate Quantity	Condition	Accessibility	Material Exposure Assessment Rating*
Green transite board	Above two ceiling-mounted heater units	M	$40ft^2$	Good	Low	E
White window caulking	All windows	M	$200ft^2$	Good	Low	E

T = Thermal System Insulation
S = Surfacing Material
M = Miscellaneous Material

* Assessment Index: Materials assigned an alphabetical exposure assessment rating from A to F based on damage and fiber release factors, with A representing a material with the highest priority for remedial action and F representing a material with the lowest priority for remedial action (See Appendix D for additional details).

4. CONCLUSIONS AND RECOMMENDATIONS

On the basis of CEC's inspection of the Main Building and the Maintenance Building of the Paul J. Sutcovoy Army Reserve Center in Waterbury, Connecticut, and of CEC's collection of random bulk samples of friable and nonfriable suspect asbestos-containing building materials and their analyses by CEC's laboratory, CEC concludes that:

(1) Mudded pipe fitting insulation and block-type pipe insulation were identified at the site in the kitchen and women's restrooms.

(2) Because some of these friable materials are damaged and accessible, they are susceptible to disturbance and release of fibers.

(3) No friable ACBM were identified at the site. Nonfriable floor tiles and underlying mastic adhesive in the main building, and nonfriable transite board and window caulking in the OMS were ACBM identified at the site.

(4) Because of their condition and location, these nonfriable materials are not readily susceptible to disturbance and fiber release. However, damaged floor tiles in the basement may become susceptible to fiber release if further damaged or disturbed.

Therefore, CEC recommends that damaged friable materials at this site be removed and replaced, or suitably repaired on a worst-first bases. Nonfriable materials should not be cut, ground, sanded, drilled, or otherwise subject to dust emitting operations.

At the client's request we have prepared cost estimates (Table 3) for the total removal and replacement of ACBM identified during the survey. These estimates are for informational purposes only and are not intended to be compared to actual prices an abatement contractor might estimate for a specific project.

The estimated cost to remove all the ACBM is approximately $14,560. The estimated cost to replace the ACBM with materials that do not contain asbestos is $6,960. The estimated cost for total removal and replacement of ACBM is $21,520.

Unit prices have been estimated based on typical 1994 costs for specific types of ACBM. These prices account for the labor, material, engineering controls, and expected transportation and disposal costs that would be incurred to remove and dispose of the ACBM.

TABLE 3. COST ESTIMATES FOR REMOVAL AND REPLACEMENT OF ACBM

Paul J. Sutcovoy Army Reserve Center
Lydia Street Extension
Waterbury, Connecticut

Type of ACBM	Total Quantity	Unit Cost for Removal	Removal Cost	Unit Cost For Replacement	Replacement Cost
9"x9" floor tiles and underlying mastic adhesive	4,000 ft^2	$3/$ft^2$	$12,000	$1.5/$ft^2$	$6,000
Green transite board	40 ft^2	$7/$ft^2$	$ 280	$ 2/ft^2	$ 80
White window caulking	200 ft	$10/ft	$2,000	$ 3/ft	$ 600
Gray mudded fitting	10 lf	$10/lf	$ 100	$10/lft	$ 100
White block-type insulation	18 lf	$10/lf	$ 180	$10/lft	$ 180
		TOTAL	**$14,560**	**TOTAL**	**$ 6,960**
		TOTAL REMOVAL AND REPLACEMENT COST		**$21,520**	

LOCATION: MAIN BUILDING
PAUL J. SUTCOVOY ARC
LYDIA STREET EXTENSION
WATERBURY, CT

PROJECT : 94.01163.28
PAGE : A-1

ANALYTICAL RESULTS OF BULK SAMPLES

SAMPLE DESCRIPTION	ANALYTICAL RESULTS		
28-01-01 RED AND WHITE 9" X 9" FLOOR TILE FROM FRONT FOYER	ASBESTOS-CHRYSOTILE	:	03%
	CELLULOSE	:	< 01%
	NON-FIBROUS MATERIAL	:	97%
28-02-01 BLACK MASTIC ASSOCIATED WITH SAMPLE #01-01	NO ASBESTOS DETECTED		
	FIBROUS GLASS	:	< 01%
	CELLULOSE	:	02%
	OTHER FIBROUS MATERIAL - SYNTHETIC	:	< 01%
	NON-FIBROUS MATERIAL	:	98%
28-03-01 BROWN AND WHITE 9" X 9" FLOOR TILE FROM FRONT FOYER	ASBESTOS-CHRYSOTILE	:	03%
	CELLULOSE	:	< 01%
	NON-FIBROUS MATERIAL	:	97%
28-04-01 BLACK MASTIC ASSOCIATED WITH SAMPLE #03-01	ASBESTOS-CHRYSOTILE	:	01%
	CELLULOSE	:	01%
	NON-FIBROUS MATERIAL	:	98%
28-05-01 BEIGE, WHITE AND BROWN 9" X 9" FLOOR TILE IN KITCHEN BY RADIATOR	ASBESTOS-CHRYSOTILE	:	02%
	CELLULOSE	:	< 01%
	NON-FIBROUS MATERIAL	:	98%
28-06-01 BLACK MASTIC ASSOCIATED WITH SAMPLE #05-01	NO ASBESTOS DETECTED		
	CELLULOSE	:	01%
	NON-FIBROUS MATERIAL	:	99%
28-07-01 TAN, WHITE AND BROWN 9" X 9" FLOOR TILE IN KITCHEN, BELOW SINK	NO ASBESTOS DETECTED		
	CELLULOSE	:	< 01%
	NON-FIBROUS MATERIAL	:	100%
28-08-01 BLACK MASTIC ASSOCIATED WITH SAMPLE #07-01	ASBESTOS-CHRYSOTILE	:	< 01%
	CELLULOSE	:	< 01%
	NON-FIBROUS MATERIAL	:	100%
28-09-01 WHITE FIBERGLASS SEALANT, 10' TO LEFT OF ENTRANCE INSIDE DRILL HALL	NO ASBESTOS DETECTED		
	FIBROUS GLASS	:	01%
	CELLULOSE	:	< 01%
	NON-FIBROUS MATERIAL	:	99%

LOCATION: **MAIN BUILDING**
PAUL J. SUTCOVOY ARC
LYDIA STREET EXTENSION
WATERBURY, CT

PROJECT : 94.01163.28
PAGE : A-2

ANALYTICAL RESULTS OF BULK SAMPLES

SAMPLE DESCRIPTION	ANALYTICAL RESULTS		
28-09-02 WHITE FIBERGLASS SEALANT, BOILER ROOM BY FEED PUMPS	NO ASBESTOS DETECTED		
	FIBROUS GLASS	:	01%
	CELLULOSE	:	< 01%
	NON-FIBROUS MATERIAL	:	99%
28-10-01 WATER TANK INSULATION, LEFT SIDE OF BOILER ROOM TANK	NO ASBESTOS DETECTED		
	FIBROUS GLASS	:	50%
	CELLULOSE	:	05%
	NON-FIBROUS MATERIAL	:	45%
28-10-02 WATER TANK INSULATION, RIGHT SIDE OF BOILER ROOM TANK	NO ASBESTOS DETECTED		
	FIBROUS GLASS	:	50%
	CELLULOSE	:	05%
	NON-FIBROUS MATERIAL	:	45%
28-10-03 WATER TANK INSULATION, LEFT END OF BOILER ROOM TANK	NO ASBESTOS DETECTED		
	FIBROUS GLASS	:	50%
	CELLULOSE	:	05%
	NON-FIBROUS MATERIAL	:	45%
28-11-01 BREECHING INSULATION FROM VERTICAL STACK BEHIND BOILER IN BOILER ROOM	NO ASBESTOS DETECTED		
	FIBROUS GLASS	:	45%
	CELLULOSE	:	05%
	NON-FIBROUS MATERIAL	:	50%
28-11-02 BREECHING INSULATION FROM HORIZONTAL STACK BEHIND BOILER	NO ASBESTOS DETECTED		
	FIBROUS GLASS	:	45%
	CELLULOSE	:	05%
	NON-FIBROUS MATERIAL	:	50%
28-11-03 BREECHING INSULATION ABOVE HOT WATER HEATER IN BOILER ROOM	NO ASBESTOS DETECTED		
	FIBROUS GLASS	:	45%
	CELLULOSE	:	05%
	NON-FIBROUS MATERIAL	:	50%
28-12-01 GYPSUM BOARD FROM BOILER ROOM CEILING AT DOOR ENTRANCE	NO ASBESTOS DETECTED		
	FIBROUS GLASS	:	< 01%
	CELLULOSE	:	10%
	NON-FIBROUS MATERIAL	:	90%

LOCATION: MAIN BUILDING
PAUL J. SUTCOVOY ARC
LYDIA STREET EXTENSION
WATERBURY, CT

PROJECT : 94.01163.28
PAGE : A-3

ANALYTICAL RESULTS OF BULK SAMPLES

SAMPLE DESCRIPTION	ANALYTICAL RESULTS		
28-12-02 GYPSUM BOARD FROM BOILER ROOM CEILING ABOVE WATER TANK	NO ASBESTOS DETECTED		
	FIBROUS GLASS	:	< 01%
	CELLULOSE	:	10%
	NON-FIBROUS MATERIAL	:	90%
28-13-01 CERAMIC TILE GROUT FROM BASEMENT MEN'S ROOM, 2' TO RIGHT OF DOOR	NO ASBESTOS DETECTED		
	FIBROUS GLASS	:	< 01%
	CELLULOSE	:	< 01%
	NON-FIBROUS MATERIAL	:	100%
28-14-01 GYPSUM BOARD BY CLOCK IN LEARNING CENTER	NO ASBESTOS DETECTED		
	CELLULOSE	:	05%
	NON-FIBROUS MATERIAL	:	95%
28-15-01 BLACK EXTERIOR WINDOW CAULKING FROM COMMANDER'S OFFICE	NO ASBESTOS DETECTED		
	CELLULOSE	:	< 01%
	NON-FIBROUS MATERIAL	:	100%
28-19-01 TAN COMPRESSED PAPER PIPE INSULATION FROM BASEMENT MEN'S ROOM	ASBESTOS-CHRYSOTILE	:	< 01%
	CELLULOSE	:	99%
	NON-FIBROUS MATERIAL	:	01%
28-19-02 TAN COMPRESSED PAPER PIPE INSULATION FROM ABOVE SINK IN KITCHEN	NO ASBESTOS DETECTED		
	CELLULOSE	:	99%
	NON-FIBROUS MATERIAL	:	01%
28-19-03 TAN COMPRESSED PAPER PIPE INSULATION ACROSS FROM OVERHEAD DOOR IN DRILL HALL	NO ASBESTOS DETECTED		
	CELLULOSE	:	100%

LOCATION: OMS
PAUL J. SUTCOVOY ARC
LYDIA STREET EXTENSION
WATERBURY, CT

PROJECT : 94.01163.28
PAGE : A-5

ANALYTICAL RESULTS OF BULK SAMPLES

SAMPLE DESCRIPTION	ANALYTICAL RESULTS		
28-16-01 GREEN CEMENT BOARD ABOVE HEATER IN OMS	ASBESTOS-CHRYSOTILE	:	07%
	FIBROUS GLASS	:	35%
	CELLULOSE	:	< 01%
	NON-FIBROUS MATERIAL	:	58%
28-17-01 TAN COMPRESSED PAPER PIPE INSULATION FROM FRONT RIGHT BAY OF OMS	NO ASBESTOS DETECTED		
	FIBROUS GLASS	:	< 01%
	CELLULOSE	:	90%
	OTHER FIBROUS MATERIAL - SYNTHETIC	:	05%
	NON-FIBROUS MATERIAL	:	05%
28-17-02 TAN COMPRESSED PAPER PIPE INSULATION FROM CENTER CAGE OF OMS	NO ASBESTOS DETECTED		
	FIBROUS GLASS	:	< 01%
	CELLULOSE	:	95%
	OTHER FIBROUS MATERIAL - SYNTHETIC	:	< 01%
	NON-FIBROUS MATERIAL	:	05%
28-17-03 TAN COMPRESSED PAPER PIPE INSULATION FROM CENTER CAGE BY BEAM IN OMS	NO ASBESTOS DETECTED		
	FIBROUS GLASS	:	< 01%
	CELLULOSE	:	95%
	OTHER FIBROUS MATERIAL - SYNTHETIC	:	< 01%
	NON-FIBROUS MATERIAL	:	05%
28-18-01 WHITE WINDOW CAULKING FROM LEFT REAR OF OMS	ASBESTOS-CHRYSOTILE	:	02%
	CELLULOSE	:	< 01%
	NON-FIBROUS MATERIAL	:	98%

ALL SAMPLES ARE STORED AT THE CEC LABORATORY FOR A PERIOD OF THREE MONTHS. FURTHER ANALYSIS OR RETURN OF SAMPLES MUST BE REQUESTED WITHIN THIS THREE MONTH PERIOD TO GUARANTEE THEIR AVAILABILITY.

LABORATORY CERTIFICATION # MA #AA000006

LABORATORY SUPERVISOR

CEC
Covino Environmental Consultants, Inc. 300 Wildwood Avenue Woburn, MA 01801 (617) 933-2555 FAX (617) 932-9402

LOCATION: MAIN BUILDING
PAUL J. SUTCOVOY ARC
LYDIA STREET EXTENSION
WATERBURY, CT

PROJECT : 94.01163.28
PAGE : A-4

ANALYTICAL RESULTS OF BULK SAMPLES

SAMPLE DESCRIPTION	ANALYTICAL RESULTS		
28-20-01 BLACK EXTERIOR ASPHALTIC ROOF SHINGLE ABOVE SIDE ENTRANCE	NO ASBESTOS DETECTED		
	FIBROUS GLASS	:	05%
	CELLULOSE	:	< 01%
	NON-FIBROUS MATERIAL	:	95%

ALL SAMPLES ARE STORED AT THE CEC LABORATORY FOR A PERIOD OF THREE MONTHS. FURTHER ANALYSIS OR RETURN OF SAMPLES MUST BE REQUESTED WITHIN THIS THREE MONTH PERIOD TO GUARANTEE THEIR AVAILABILITY.

LABORATORY CERTIFICATION # MA #AA000006

LABORATORY SUPERVISOR

LOCATION: WATERBURY, CONN

PROJECT : 51542
BATCH : 9607.024
PAGE : A - 1

ANALYTICAL RESULTS OF BULK SAMPLES

SAMPLE DESCRIPTION		ANALYTICAL RESULTS		
001	1-1, GRAY MUD FITTING INSULATION ON DOMESTIC WATER LINE IN KITCHEN	ASBESTOS-CHRYSOTILE	:	15%
		FIBROUS GLASS	:	30%
		CELLULOSE	:	< 01%
		NON-FIBROUS MATERIAL	:	55%
002	1-2, GRAY MUD FITTING INSULATION ON DOMESTIC WATER LINE IN KITCHEN	SAMPLE NOT ANALYZED		
003	2-1, WHITE BLOCK INSULATION ON HEATING PIPE IN LADIE'S BATHROOM, FIRST FLOOR	ASBESTOS-AMOSITE	:	40%
		NON-FIBROUS MATERIAL	:	60%
004	2-2, WHITE BLOCK INSULATION ON HEATING PIPE IN LADIE'S BATHROOM, BASEMENT	SAMPLE NOT ANALYZED		

ANALYSIS METHOD: POLARIZED LIGHT MICROSCOPY WITH DISPERSION STAINING (PLM/DS) BY EPA-600/M4-82-020

LABORATORY CERTIFICATION # MA #AA000006

LABORATORY SUPERVISOR

Tundra Air Consultants 300 Wildwood Avenue, Woburn, MA 01801 (617) 933-2555 Fax (617) 932-9402
A Tundra Corporation Company

Briggs Associates, Inc.

ASBESTOS ANALYSIS BY TRANSMISSION ELECTRON MICROSCOPY (TEM), SELECTED AREA ELECTRON DIFFRACTION (SAED), AND ENERGY DISPERSIVE X-RAY MICROANALYSIS (EDXA)

SAMPLE DATA

CLIENT PROJECT: CEC Job 94.01163

Sample Location: #28,Waterburg,CT

CLIENT: Covino Environmental Consultants, Inc.

DATE RECEIVED: 1/12/95

ANALYSIS: Floor Tile Asbestos Analysis by Modified Chatfield Method (Qualitative)

ANALYTICAL RESULTS

Lab ID No.	Client ID No.	Approximate Asbestos Content	Asbestos Type
1.17862	28-02-01	SA	CHR
2.17863	28-06-01	SA	CHR
3.17864	28-07-01	NAD	
4.17865	28-08-01	MA	CHR

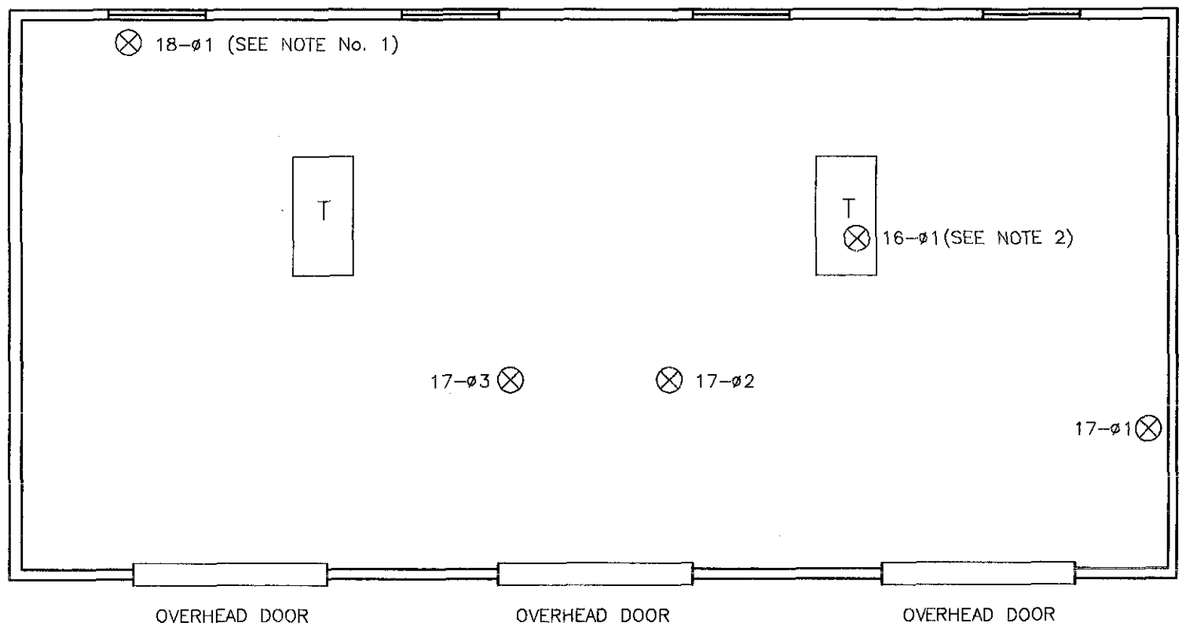
Notes: CHR=Chrysotile, AMP=Amphibole
NAD=No Asbestos Detected
SA=Slight Amount of Asbestos, MA=Moderate Amount of Asbestos, HA=High Amount of Asbestos

Analytical Method: The floor tile samples and their underlying mastic are analyzed in accordance with recommended protocol (modified Chatfield). The TEM analysis was performed using JEOL 100CX II with KEVEX energy dispersive X-ray spectrometer at a magnification of 19,000.

2001 Marietta Road, Atlanta, Georgia 30318
Tel (404) 355-4429 • Fax (404) 355-2339
Markham, ONT • Rockland, MA • Newton Upper Falls, MA • Pawtucket, RI • Columbia, MD • Nashville, TN • Orlando, FL

APPENDIX B

DRAWINGS DEPICTING SAMPLE AND ACBM LOCATIONS



OMS

LEGEND

⊗	BULK SAMPLE LOCATION
NA	NOT ACCESSIBLE
T	TRANSITE
AA-BB	SAMPLE DESCRIPTION: HOMOGENEOUS MATERIAL – SPECIFIC SAMPLE NUMBER
ACBM	ASBESTOS-CONTAINING BUILDING MATERIAL
(X)	NUMBER OF ACBM FITTINGS ON NON-ACBM INSULATED PIPE
△X	LINEAR FEET OF ACBM PIPE INSULATION
⊙	VERTICAL ACBM INSULATED PIPE RISER
	ACBM FLOOR TILE
	ACBM FLOOR TILE & MASTIC
	ACBM MASTIC

DRAWING NOTES

1. WHITE WINDOW CAULKING, 200 SQ. FT., CHRYSOTILE 2%
2. TRANSITE CEMENT BOARD 4ø SQ. FT., 7% CHRYSOTILE

Revisions

Symbol	Descriptions	Date	Approved

COVINO ENVIROMENTAL CONSULTANTS, INC.
3øø WILDWOOD AVENUE
WOBURN, MASSACHUSETTS ø18ø1

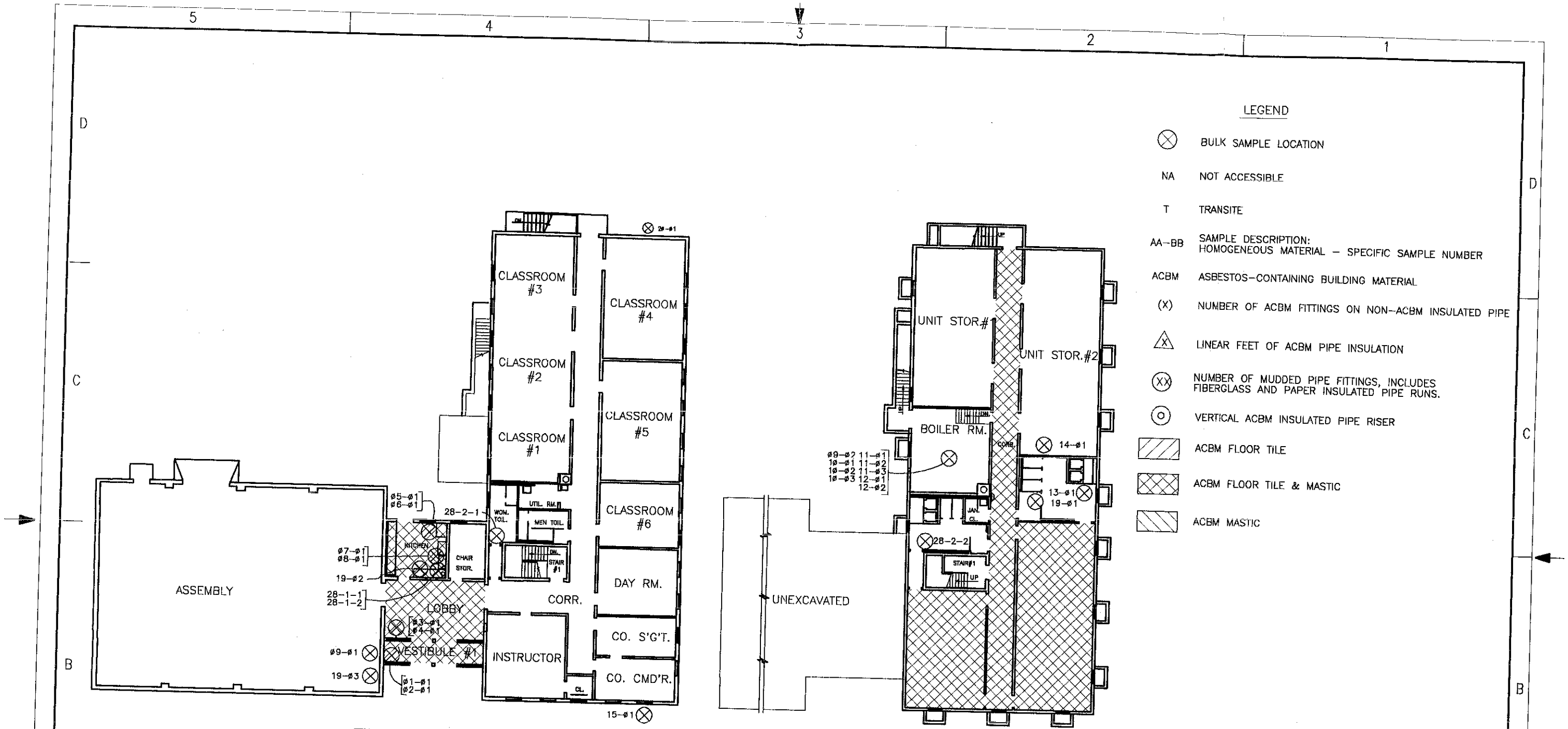
ARMY RESERVE CENTER
WATERBURY, CT

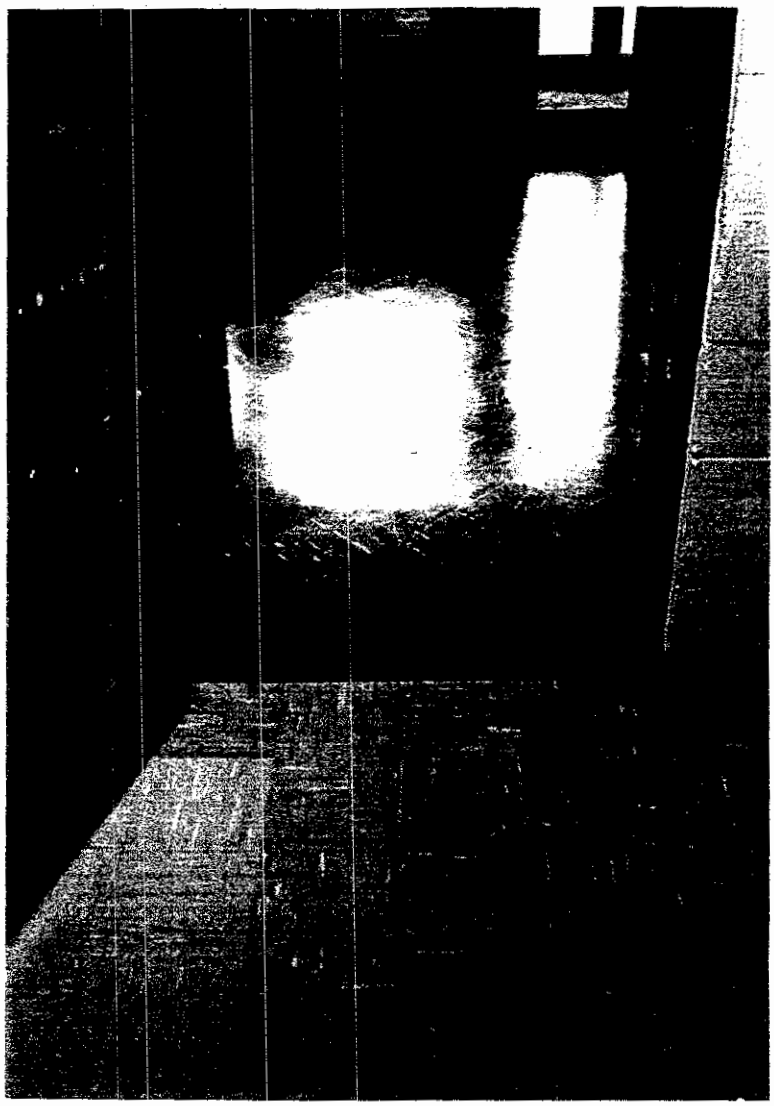
Designed by:
Drawn by:
Checked by:
Reviewed by:
Approved by:

ASBESTOS SURVEY PLAN
PAUL J. SUTCOVOY, USARC
LYDIA STREET EXTENSION
WATERBURY, CONNECTICUT

Scale: NONE
Date: OCT. 1995
Drawing Code:
Sheet reference number:
Sheet ____ of ____

Plot Date:


CLASSROOM #3
CLASSROOM #4
CLASSROOM #2
CLASSROOM #5
CLASSROOM #1
CLASSROOM #6
UTIL. RM.
WOM. TOIL.
MEN TOIL.
DN. STAIR #1
DAY RM.
CORR.
CO. S'G'T.
CO. CMD'R.
INSTRUCTOR
CL.
ASSEMBLY
KITCHEN
CHAIR STOR.
LOBBY
VESTIBULE #1
ø5-ø1
ø6-ø1
28-2-1
ø7-ø1
ø8-ø1
19-ø2
28-1-1
28-1-2
ø3-ø1
ø4-ø1
ø9-ø1
19-ø3
ø1-ø1
ø2-ø1
15-ø1
29-ø1
FIRST FLOOR
UNEXCAVATED
UNIT STOR.#1
UNIT STOR.#2
BOILER RM.
DN.
CONN.
JAN. CL.
STAIR#1
UP
ø9-ø2 11-ø1
1ø-ø1 11-ø2
1ø-ø2 11-ø3
1ø-ø3 12-ø1
12-ø2
14-ø1
13-ø1
19-ø1
28-2-2
BASEMENT
MAIN BUILDING
LEGEND
BULK SAMPLE LOCATION
NA NOT ACCESSIBLE
T TRANSITE
AA-BB SAMPLE DESCRIPTION: HOMOGENEOUS MATERIAL – SPECIFIC SAMPLE NUMBER
ACBM ASBESTOS-CONTAINING BUILDING MATERIAL
(X) NUMBER OF ACBM FITTINGS ON NON-ACBM INSULATED PIPE
X LINEAR FEET OF ACBM PIPE INSULATION
XX NUMBER OF MUDDED PIPE FITTINGS, INCLUDES FIBERGLASS AND PAPER INSULATED PIPE RUNS.
VERTICAL ACBM INSULATED PIPE RISER
ACBM FLOOR TILE
ACBM FLOOR TILE & MASTIC
ACBM MASTIC
Revisions
Symbol
Descriptions
Date
Approved
COVINO ENVIROMENTAL CONSULTANTS, INC.
3ØØ WILDWOOD AVENUE
WOBURN, MASSACHUSETTS Ø1Ø1
ARMY RESERVE CENTER
WATERBURY, CT
Designed by:
Drawn by:
Checked by:
Reviewed by:
Approved by:
ASBESTOS SURVEY PLAN
PAUL J. SUTCOVOY, USARC
LYDIA STREET EXTENSION
WATERBURY, CONNECTICUT
Scale: NONE
Date: OCT. 1995
Drawing Code:
Sheet reference number:
Sheet ___ of ___
Plot Date:



iURE 28-01 Asbestos-containing 9" x 9" floor tiles, kitchen and foyer.

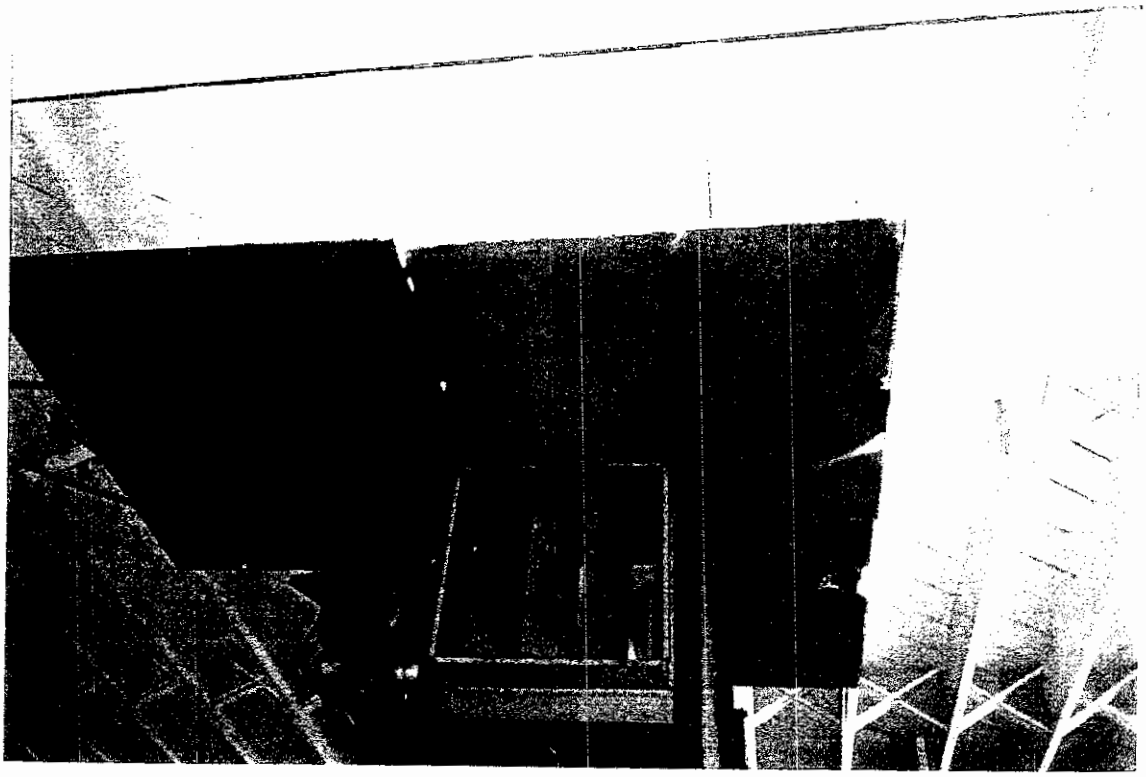


FIGURE 28-02 Transite board above heater, motor vehicle maintenance building.

INSTRUCTIONS FOR COMPLETING USAEC ACBM ASSESSMENT CHECKLIST

1. Complete a separate form for each suspect asbestos-containing building material (SACBM) in a building. If a building has no SACBM, insert "No SACBM Found" in the space labeled "SACBM I.D. No."

2. Complete all remaining items at the top of the form. If a SACBM exists essentially throughout a building, insert "Throughout Building" under "Room(s) or Area(s) Where Found." Otherwise, clearly list the rooms or areas where it was found (e.g., Entire Basement, Rooms 101-120, Attic Only, etc.)

3. To complete Parts I and II, circle the ratings which are appropriate for the particular SACBM. Use the largest circled ratings to calculate the Damage(D) Total and Exposure(E) Total when multiple ratings are circled. These totals represent the sum of the factor ratings for Parts I and II.

4. Note any other relevant observations in the space labeled at the bottom of the form, then determine the "Assessment Index" from the chart shown below.

5. The following provides further descriptions of the different possible scores for certain items. Refer to USAEC Figures 1a and 1b for further information about these items.

PART I: Damage Assessment Factors

A. Physical Damage: Use "0" for non-ACBM, nonfriable ACBM, or ACBM with <1%. Use "1" for less than 10% DAMAGE, or controlled space accessed by maintenance personnel only, or uncontrolled/unoccupied space. "2" = 10-50% damage. "3" = >50-75% damage. "5" = >75% damage.

B. Water Damage: Minor means <10%; major means >10%.

C. Potential Damage due to Routine Maintenance Activities: For sprayed or trowelled-on materials, this means whether the friable ACBM could be damaged by routine maintenance activities occurring at the indicated distances from the ACBM. Assign "3" also when access is required above a lay-in ceiling where surfacing ACBM is located.

D. Type of ACBM: Choose from list over.

E. Percent asbestos.

F. Damage(D) Total: Must be 0 if asbestos content is <1% or the material is nonfriable ACBM in good/fair condition; maximum score is 17.

PART II: Exposure Assessment Factors

A. Material Friability: Defined by USEPA as crumbled, pulverized, or reduced to powder when dry under hand pressure.

B. Occupant Accessibility to ACBM Fibers: Low: Isolated by barriers seldom breached; Moderate: barrier breached by routine maintenance activity; High: routinely accessible to other occupants.

C. Activity/Use: Low = Infrequent maintenance activities only; Moderate = Frequent maintenance activities only; High = Normal occupant activities.

D. Air Stream/Plenum: None means no perceptible air flow in the room or area; use 1 if an air flow is perceived but ACBM is not likely affected; use 2 if ACBM is exposed to perceptible or occasional air streams; use 3 if ACBM present in supply ducts/plenums or recirculated air, subjected to routine turbulence, or abrupt air movement.

E. Area of visible surface or damaged ACBM.

F. Population: Use the following formula to calculate for occupied building rooms/areas:

$$\text{Average Occupancy} = \text{Outside Visitors} \times \frac{\text{Ave. Hours Spent}}{\text{8 Hrs.}} + \text{No. Full-time 8-Hr. Building Occupants}$$

Unoccupied facilities capable of being used are given a worst-case scenario value of "5," plus additional value per the table over. Other unoccupied facilities (bunkers, sheds) will receive "Zero" population value.

G. Exposure(E) Total: Sum maximum scores for about Part II items; maximum score is 26.

H. Assessment Index: Enter the letter code determined from the following matrix:

Damage(D) Score	Exposure(E) Score 26-24	23-15	14-8	7-4	Zero
17-13	A	A	B	C	F
12-9	A	B	C	D	F
8-5	B	C	D	E	F
4-1	C	D	E	F	F
Zero	F	F	F	F	F

I. Other Relevant Observations.

ASBESTOS PRIORITIZATION FORM

SITE CODE: 28
AREA/ROOM: KITCHEN
EVALUATORS: TD / TBL
MATERIAL QUANTITY: 10 lf.
MATERIAL DESCRIPTION: mudded fitting insulation

BUILDING NAME: WATERBURY, CT
SAMPLE NO(S).: 28-1-1 28-1-2
DATE: 11/10/94
THICKNESS/SIZE & COLOR: GRAY

MATERIAL TYPE	COMMENTS
A 2 Friable: H=3, M=2, L=1 Non-friable=0	
B 1 Occupants Accessibility to ACBM Fibers Low = 0, Moderate = 1, High = 4	
C 2 Activity - None - 0, Low = 1, Moderate = 2, High = 3	
D 2 Air Movement/Plenum - None - 0, Low = 1, Moderate = 2, High = 3	
E 1 Amount of Visible Surface Area (ft^2): <10=0: 10 to <100=1: 100 to ≤1,000=2: >1,000=3	
F 2 Population: 1 to 9 or hall = 1: 10 to 200 = 2: 201 to 500 = 3: 501 to 1,000 = 4: > 1,000 = 5	
G 3 No ACBM or < 1% ACBM = 0, Non-friable ACBM in good to fair condition = 1, Non-friable ACBM in poor condition = 2, Friable ACBM in good condition = 3, Friable ACBM with damage = 5	
H 13 Release Factor Total (R) Max = 26: Min = 1 TOTAL R FACTOR = 13	

A 2 Physical: None = 0, Minimal = 1, Low = 2, Moderate = 3, High = 5	
B 1 Water: None = 0, Minor = 1, Major = 2	
C 3 Potential for Contact by Maintenance Activity Low = 0, Moderate = 2, High = 3	
D 2 Type of Material: Surfacing Material = 4, HVAC = 3, Pipe or Boiler = 2, Ceilings/Walls = 1, Other = 0 to 1	
E 1 Asbestos Content (%): < 1% = 0, > 1 to < 30 =1, > 30 to < 50 = 2, > 50 = 3	
F 9 Damage Factor Total (D) Max = 17, Min = 0 TOTAL D FACTOR = 9	G ASSESSMENT INDEX (Priority Ranking Value) = C

ESTABLISHED DAMAGE MATRIX

ASBESTOS PRIORITIZATION FORM

SITE CODE: 28
AREA/ROOM: WOMEN'S RESTROOM
EVALUATORS: TD / BL
MATERIAL QUANTITY: 18 lf
MATERIAL DESCRIPTION: block-type insulation

BUILDING NAME: WATERBURY CT
SAMPLE NO(S).: 28-2-1 28-2-2
DATE: 11/10/94
THICKNESS/SIZE & COLOR: white

MATERIAL TYPE	COMMENTS
A 3 Friable: H=3, M=2, L=1 Non-friable=0	
B 1 Occupants Accessibility to ACBM Fibers Low = 0, Moderate = 1, High = 4	
C 2 Activity - None - 0, Low = 1, Moderate = 2, High = 3	
D 2 Air Movement/Plenum - None - 0, Low = 1, Moderate = 2, High = 3	
E 1 Amount of Visible Surface Area (ft^2): <10=0: 10 to <100=1: 100 to ≤1,000=2: >1,000=3	
F 2 Population: 1 to 9 or hall = 1: 10 to 200 = 2: 201 to 500 = 3: 501 to 1,000 = 4: > 1,000 = 5	
G 5 No ACBM or < 1% ACBM = 0, Non-friable ACBM in good to fair condition = 1, Non-friable ACBM in poor condition = 2, Friable ACBM in good condition = 3, Friable ACBM with damage = 5	
H 16 Release Factor Total (R) Max = 26: Min = 1 TOTAL R FACTOR = 16	

A 2 Physical: None = 0, Minimal = 1, Low = 2, Moderate = 3, High = 5	
B 1 Water: None = 0, Minor = 1, Major = 2	
C 3 Potential for Contact by Maintenance Activity Low = 0, Moderate = 2, High = 3	
D 3 Type of Material: Surfacing Material = 4, HVAC = 3, Pipe or Boiler = 2, Ceilings/Walls = 1, Other = 0 to 1	
E 2 Asbestos Content (%): < 1% = 0, > 1 to < 30 = 1, > 30 to < 50 = 2, > 50 = 3	
F 11 Damage Factor Total (D) Max = 17, Min = 0 TOTAL D FACTOR = ____	G ASSESSMENT INDEX (Priority Ranking Value) = B

ASBESTOS PRIORITIZATION FORM

SITE CODE: 28
AREA/ROOM: Various
EVALUATORS: TDonnery/Blanchard
MATERIAL QUANTITY: 4000 ft²
MATERIAL DESCRIPTION: 9x9" floor tile (red+white) (brown+white) (beige, white+brown) and (tan, white + brown)

BUILDING NAME: Waterbury, CT
SAMPLE NO(S).: 01-01, 03-01, 05-01, 07-01
DATE: 9/26/94
THICKNESS/SIZE & COLOR: 1/8"

MATERIAL TYPE	COMMENTS
RELEASE ASSESSMENT	
A 0 Friable: H=3, M=2, L=1 Non-friable=0	- Kitchen
B 4 Occupants Accessibility to ACBM Fibers Low = 0, Moderate = 1, High = 4	- Lobby
C 1 Activity - None - 0, Low = 1, Moderate = 2, High = 3	- vestibule
D 1 Air Movement/Plenum - None - 0, Low = 1, Moderate = 2, High = 3	
E 3 Amount of Visible Surface Area (ft²): <10=0: 10 to <100=1: 100 to ≤1,000=2: >1,000=3	
F 2 Population: 1 to 9 or hall = 1: 10 to 200 = 2: 201 to 500 = 3: 501 to 1,000 = 4: > 1,000 = 5	
G 1 No ACBM or < 1% ACBM = 0, Non-friable ACBM in good to fair condition = 1, Non-friable ACBM in poor condition = 2, Friable ACBM in good condition = 3, Friable ACBM with damage = 5	
H 12 Release Factor Total (R) Max = 26: Min = 1 TOTAL R FACTOR = 12	
DAMAGE ASSESSMENT	
A 1 Physical: None = 0, Minimal = 1, Low = 2, Moderate = 3, High = 5	Basement
B 1 Water: None = 0, Minor = 1, Major = 2	Basement
C 3 Potential for Contact by Maintenance Activity Low = 0, Moderate = 2, High = 3	
D 1 Type of Material: Surfacing Material = 4, HVAC = 3, Pipe or Boiler = 2, Ceilings/Walls = 1, Other = 0 to 1	
E 1 Asbestos Content (%): < 1% = 0, > 1 to < 30 =1, > 30 to < 50 = 2, > 50 = 3	
F 7 Damage Factor Total (D) Max = 17, Min = 0 TOTAL D FACTOR = 7	G ASSESSMENT INDEX (Priority Ranking Value) = D

ASBESTOS PRIORITIZATION FORM

SITE CODE: 28
AREA/ROOM: Vestibule, Kitchen
EVALUATORS: TDowney/BLambard
MATERIAL QUANTITY: 4000ft²
MATERIAL DESCRIPTION: mastic adhesive beneath 9"x9" floor tiles

BUILDING NAME: Waterbury, CT
SAMPLE NO(S).: 02-01, 06-01, 08-01, 4-01
DATE: 9/26/94
THICKNESS/SIZE & COLOR: 1/16", black

	MATERIAL TYPE	COMMENTS
RELEASE ASSESSMENT	A 0 Friable: H=3, M=2, L=1 Non-friable=0	Basement, Lobby
	B 0 Occupants Accessibility to ACBM Fibers Low = 0, Moderate = 1, High = 4	Basement hall
	C 0 Activity - None - 0, Low = 1, Moderate = 2, High = 3	
	D 0 Air Movement/Plenum - None - 0, Low = 1, Moderate = 2, High = 3	
	E 0 Amount of Visible Surface Area (ft^2): <10=0: 10 to <100=1: 100 to ≤1,000=2: >1,000=3	
	F 2 Population: 1 to 9 or hall = 1: 10 to 200 = 2: 201 to 500 = 3: 501 to 1,000 = 4: > 1,000 = 5	
	G 1 No ACBM or < 1% ACBM = 0, Non-friable ACBM in good to fair condition = 1, Non-friable ACBM in poor condition = 2, Friable ACBM in good condition = 3, Friable ACBM with damage = 5	
	H 3 Release Factor Total (R) Max = 26: Min = 1 TOTAL R FACTOR = 3	

DAMAGE ASSESSMENT	A 0 Physical: None = 0, Minimal = 1, Low = 2, Moderate = 3, High = 5	
	B 0 Water: None = 0, Minor = 1, Major = 2	
	C 0 Potential for Contact by Maintenance Activity Low = 0, Moderate = 2, High = 3	
	D 0 Type of Material: Surfacing Material = 4, HVAC = 3, Pipe or Boiler = 2, Ceilings/Walls = 1, Other = 0 to 1	
	E 1 Asbestos Content (%): < 1% = 0, > 1 to < 30 =1, > 30 to < 50 = 2, > 50 = 3	
	F 1 Damage Factor Total (D) Max = 17, Min = 0 TOTAL D FACTOR = 1	G ASSESSMENT INDEX (Priority Ranking Value) = F

ASBESTOS PRIORITIZATION FORM

SITE CODE: 28
AREA/ROOM: OMS
EVALUATORS: TDowney / Blombard
MATERIAL QUANTITY:
MATERIAL DESCRIPTION: gray cement board

BUILDING NAME: Waterbury, CT
SAMPLE NO(S).: 28-16-01
DATE: 9/26/94
THICKNESS/SIZE & COLOR:

RELEASE ASSESSMENT

MATERIAL TYPE	COMMENTS
A 0 Friable: H=3, M=2, L=1 Non-friable=0	
B 0 Occupants Accessibility to ACBM Fibers Low = 0, Moderate = 1, High = 4	
C 1 Activity - None - 0, Low = 1, Moderate = 2, High = 3	
D 2 Air Movement/Plenum - None - 0, Low = 1, Moderate = 2, High = 3	
E 1 Amount of Visible Surface Area (ft^2): <10=0: 10 to <100=1: 100 to ≤1,000=2: >1,000=3	
F 2 Population: 1 to 9 or hall = 1: 10 to 200 = 2: 201 to 500 = 3: 501 to 1,000 = 4: > 1,000 = 5	
G 1 No ACBM or < 1% ACBM = 0, Non-friable ACBM in good to fair condition = 1, Non-friable ACBM in poor condition = 2, Friable ACBM in good condition = 3, Friable ACBM with damage = 5	
H 7 Release Factor Total (R) Max = 26: Min = 1 TOTAL R FACTOR = 7	

DAMAGE ASSESSMENT

A 1 Physical: None = 0, Minimal = 1, Low = 2, Moderate = 3, High = 5	
B 0 Water: None = 0, Minor = 1, Major = 2	
C 2 Potential for Contact by Maintenance Activity Low = 0, Moderate = 2, High = 3	
D 1 Type of Material: Surfacing Material = 4, HVAC = 3, Pipe or Boiler = 2, Ceilings/Walls = 1, Other = 0 to 1	
E 1 Asbestos Content (%): < 1% = 0, > 1 to < 30 = 1, > 30 to < 50 = 2, > 50 = 3	
F 5 Damage Factor Total (D) Max = 17, Min = 0 TOTAL D FACTOR = 5	G ASSESSMENT INDEX (Priority Ranking Value) = 7

ASBESTOS PRIORITIZATION FORM

SITE CODE: 28
AREA/ROOM: CMS
EVALUATORS: Downey/Blanchard
MATERIAL QUANTITY: 200 LF
MATERIAL DESCRIPTION: white window caulking

BUILDING NAME: Waterbury, CT
SAMPLE NO(S).: 1801
DATE: 9/26/94
THICKNESS/SIZE & COLOR: 1/2" - white

	MATERIAL TYPE	COMMENTS
RELEASE ASSESSMENT	A 12 Friable: H=3, M=2, L=1 Non-friable=0	
	B 0 Occupants Accessibility to ACBM Fibers Low = 0, Moderate = 1, High = 4	
	C 1 Activity - None - 0, Low = 1, Moderate = 2, High = 3	
	D 3 Air Movement/Plenum - None - 0, Low = 1, Moderate = 2, High = 3	
	E 1 Amount of Visible Surface Area (ft^2): <10=0: 10 to <100=1: 100 to ≤1,000=2: >1,000=3	
	F 2 Population: 1 to 9 or hall = 1: 10 to 200 = 2: 201 to 500 = 3: 501 to 1,000 = 4: > 1,000 = 5	
	G 1 No ACBM or < 1% ACBM = 0, Non-friable ACBM in good to fair condition = 1, Non-friable ACBM in poor condition = 2, Friable ACBM in good condition = 3, Friable ACBM with damage = 5	
	H 9 Release Factor Total (R) Max = 26: Min = 1 TOTAL R FACTOR = ____	
DAMAGE ASSESSMENT	A 0 Physical: None = 0, Minimal = 1, Low = 2, Moderate = 3, High = 5	
	B 0 Water: None = 0, Minor = 1, Major = 2	
	C 2 Potential for Contact by Maintenance Activity Low = 0, Moderate = 2, High = 3	
	D 1 Type of Material: Surfacing Material = 4, HVAC = 3, Pipe or Boiler = 2, Ceilings/Walls = 1, Other = 0 to 1	
	E 1 Asbestos Content (%): < 1% = 0, > 1 to < 30 = 1, > 30 to < 50 = 2, > 50 = 3	
	F 4 Damage Factor Total (D) Max = 17, Min = 0 TOTAL D FACTOR = ____	G ASSESSMENT INDEX (Priority Ranking Value) = F

APPENDIX E

PERSONNEL AND LABORATORY CERTIFICATES

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

ISO/IEC GUIDE 25:1990
ISO/IEC GUIDE 58:1993
ISO 9002:1994

Certificate of Accreditation

DEPARTMENT OF COMMERCE ★ UNITED STATES OF AMERICA ★

COVINO ENVIRONMENTAL CONSULTANTS, INC.

WOBURN, MA

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

BULK ASBESTOS FIBER ANALYSIS

July 1, 1995

Effective until

For the National Institute of Standards and Technology

NVLAP LAB CODE: 1781

IEE

INSTITUTE FOR ENVIRONMENTAL EDUCATION, INC.
52B Cummings Park, Suite 315, Woburn, MA 01801
(617) 935-7370

Timothy M Downey

has successfully completed the 8 hour course

Asbestos Inspector/Management Planner Annual Refresher

February 24, 1994	February 24, 1994
Course Date	Examination Date
94-184-136-113	February 24, 1995
Certificate Number	Expiration Date
027-58-6940	
Social Security Number	President / Director of Training

IEE

INSTITUTE FOR ENVIRONMENTAL EDUCATION, INC.
52B Cummings Park, Suite 315, Woburn, MA 01801
(617) 935-7370

Benjamin Lombard

has successfully completed the 24 hour course

Asbestos Inspection Training

November 8-10, 1993
Course Date (s)

93-077-102-110
Certificate Number

019-54-5422
Social Security Number

November 10, 1993
Examination Date

November 10, 1994
Expiration Date

President / Director of Training

OPERATIONS AND MAINTENANCE PROGRAM

FOR

ASBESTOS-CONTAINING MATERIALS

AT THE

PAUL J. SUTCOVOY ARMY RESERVE CENTER

LYDIA STREET EXTENSION

WATERBURY, CONNECTICUT

TABLE OF CONTENTS

PAGE

1. Introduction 1

2. Notification 2

3. Employee Training and Contractor Training and Notification 3

4. Operations and Maintenance Activities 6

5. Periodic Reinspection 10

6. Recordkeeping 12

1. INTRODUCTION

The purpose of the Operations and Maintenance (O & M) Program is to minimize the exposure of all building occupants and visitors to airborne asbestos fibers. To accomplish this goal, the O & M Program contains information for cleaning already released asbestos fibers from surfaces, preventing future release by minimizing disturbance of and damage to asbestos-containing building materials (ACBM), and monitoring ACBM conditions throughout the building. Important O & M Program elements include alerting building occupants about the locations of ACBM, training maintenance staff in special procedures for cleaning and handling ACBM, establishing a process that assures that ACBM are not disturbed during facility repairs and renovations, and periodically reinspecting areas containing ACBM. The O & M Program also establishes a recordkeeping system that documents employee training, O & M activities, abatement of ACBM, and the results of periodic reinspections. All records generated as a result of implementing this O & M Program, as well as this document, shall be kept by a designated Asbestos Program Manager.

This O&M Plan, to a large extent is modeled upon the requirements of 40 CFR Part 763, the Asbestos Hazard Emergency Response Act (AHERA). Although the requirements for implementing an O&M Plan is only required for schools under the AHERA regulation, the EPA recommends in their Green Book inclusion of the O&M requirements in any building that has ACBM. Also, OSHA's recently reissued asbestos standard (29 CFR 1926.1101) has several O&M related provisions, including housekeeping and labeling requirements.

LIMITATIONS

Due to several limitations further survey work will be required if future renovation or maintenance activities occur which result in demolition of any part of the existing building structure. These limitations include:

A. Since no core samples of roofing material were collected, only exposed surfaces of the roof were inspected;

B. Potentially hidden areas, such as wall cavities, the space between fixed ceilings and the ceiling deck, internal equipment and parts, etc. may contain ACBM that was not accessible during the survey; and,

C. The inner cavity of fire doors, which sometimes contains ACBM insulation, were not inspected.

2. NOTIFICATION

The Asbestos Program Manager shall establish a procedure for labeling ACBM identified in the building survey. Accessible materials in service areas identified as ACBM shall be marked with the following label:

DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND LUNG DISEASE HAZARD

Labels shall be prominently displayed in readily visible locations in the service areas and shall remain posted until the labeled ACBM are removed.

Additionally, maintenance staff who may work closely with or otherwise encounter ACBM throughout the facility shall be notified of the locations of all ACBM. These employees shall be made aware of the results of the building survey so that they may be familiar with the types and locations of identified ACBM. These employees shall also be instructed to immediately report to the Asbestos Program Manager any evidence of disturbance or damage of ACBM, or any dust or debris that apparently originates from ACBM. All employees who may encounter ACBM as part of their work must have access to a list of "Emergency Contact Phone Numbers" (fig. 2-1).

Figure 2 - 1

EMERGENCY CONTACT PHONE NUMBERS

Asbestos Program Manager _____

Office Phone # _____

Home Phone # _____

Beeper # _____

Asbestos Abatement Contractor _____

Phone # _____ Fax # _____

Contacts	Home Phone #	Beeper #
_____	_____	_____
_____	_____	_____

Industrial Hygiene Consultant _____

Phone # _____ Fax # _____

Contacts	Home Phone #	Beeper #
_____	_____	_____
_____	_____	_____

Building Security _____

Police _____

Fire _____

Medical Emergency _____

3. EMPLOYEE TRAINING

A. Training of Workers in the Trades (16 hours)

All staff members who work in the skilled trades (carpenters, electricians, plumbers, etc.) and who conduct activities that will result in the disturbance of ACBM shall receive training. Activities that have a high likelihood of disturbing ACBM include routine cleaning in areas where friable ACBM are located; small-scale projects of short duration (i.e., repair or removal of less than three (3) linear or square feet of ACBM); and plumbing, heating and air conditioning, electrical, and other maintenance activities in locations adjacent to ACBM. Training shall be provided before workers are assigned to activities that may disturb ACBM. The training course shall be a minimum of sixteen (16) hours in duration. The content of the training course shall include, but not be limited to, the following elements:

1. Information regarding types of ACBM and its various uses and forms.
2. Information on the health effects associated with asbestos exposure.
3. Descriptions of the proper methods of handling ACBM and activities that could result in exposure of the employee to asbestos.
4. Information on the use of High Efficiency Particulate Air (HEPA) filter-equipped dual-cartridge respirators and other personal protection during maintenance activities.
5. Hands-on training in the use of respiratory protection, other personal protective measures, good work practices, and engineering controls.
6. Information on the asbestos program requirements for medical surveillance.
7. Recognition of damage, deterioration, and delamination of asbestos materials.
8. Relevant federal, state, and local requirements.

B. Awareness Training for Custodial Workers (2 hours)

All employees who perform custodial or maintenance tasks that may involve the accidental disturbance of ACBM, and all persons who perform work in the immediate vicinity of ACBM, shall receive awareness training. This awareness training course shall be a minimum of two (2) hours in duration. The content of the awareness training course shall include, but not be limited to, the following elements:

1. Background information on asbestos, including its uses and forms.
2. Health effects of exposure to asbestos.
3. Worker protection programs, including the use of respirators and other personal protective equipment.
4. How to recognize ACBM and how to avoid disturbing it.
5. Recognition of ACBM damage and deterioration.
6. Proper response to fiber-release episodes.

3. EMPLOYEE TRAINING (cont.)

C. Training Concerning Prohibited Activities

All facility employees shall be made familiar with the locations of all ACBM identified at the facility. Certain routine maintenance activities shall be prohibited when ACBM are involved. Specifically, they shall also be instructed that:

1. No holes shall be drilled in ACBM.
2. No plants or pictures shall be hung on structures covered with ACBM.
3. No ACBM floor tile shall be sanded or buffed using high-speed (≥300 rpm) equipment in accordance with 29 CFR 1926.1101 (L) (3)(ii).
4. While moving furniture or other objects, employees shall not damage ACBM.
5. No curtains, drapes, or other dividers shall be installed in such a way that they damage ACBM.
6. Floors, ceilings, moldings or other surfaces in asbestos-contaminated environments shall not be dusted with a dry brush or swept with a dry broom.
7. No ordinary vacuuming equipment shall be used to clean up asbestos-containing debris.
8. Ceiling tiles below ACBM shall not be removed unless the employee wears the proper respirator protection, clears the area of other people, and observes proper disposal procedures for removing asbestos waste.
9. No ventilation system filters shall be removed unless the filters are wetted.
10. No ventilation system filters shall be shaken out.

D. Refresher Training

A refresher training course shall be required every two years for all employees who are involved in Operations and Maintenance activities and who have completed the 16-hour training. The refresher training course shall be a minimum of one day (8 hours) in duration and shall include:

1. Review and discussion of changes in and interpretation of applicable state and federal laws, regulations, policies, and guidelines.
2. A discussion of developments or changes in state-of-the-art procedures and equipment.
3. Review of key areas of initial training specific to Operations and Maintenance workers.

3. EMPLOYEE TRAINING (cont.)

E. Verifying Competence of Outside Contractors

The Asbestos Program Manager shall be required to verify that all outside contractors performing work in the facility that may involve disturbance or damage of ACBM have received the training appropriate to the work they are to perform (as outlined in Parts 3(A), (B), (C), and (D) above). The Asbestos Program Manager shall also require all outside contractors to sign a certificate of acknowledgment (fig. 3-1) that they have been informed about the location of all ACBM in the facility. All outside contractors must have access to the list of "Emergency Contact Phone Numbers" shown in Figure 2-1.

Figure 3 - 1

CONTRACTOR'S ASBESTOS NOTIFICATION AND ACKNOWLEDGMENT FORM

for _____ (Project)

On behalf of _____, the undersigned hereby acknowledges the presence and location of asbestos-containing material (ACM) within the buildings located at the Paul J. Sutcovoy Army Reserve Center located in Waterbury, Connecticut as further described herein. The undersigned agrees to avoid any contact with, or disturbance, of ACBM and to inform, and require, the same of all employees of the above-named company accordingly before they start any work at the building.

Based on sample testing conducted by the Army Corps of Engineers, ACBM have been identified at the site as described below:

A. **Main Building**

1. White block-type pipe insulation in women's restrooms.
2. Mudded fitting insulations in kitchen.
3. 9"x9" floor tiles and underlying mastic adhesive in Kitchen, Lobby, Vestibule, basement hall and Locker rooms.

B. **Maintenance Building (OMS)**

1. Transite cement board above ceiling heaters.
2. White window caulking.

Any activities that could potentially disturb these materials, including but not necessarily limited to sanding, scraping, coring, drilling, hammering, removal, or anchoring are prohibited.

If you encounter any material that you suspect is ACM, or if you disturb any ACM in the course of your work, you agree to immediately stop all work and contact the project superintendent and the Asbestos Program Manager.

If you have any questions concerning this notice or the presence of ACM in the building, you shall contact the Asbestos Program Manager.

The return of one signed copy of this Notice constitutes your receipt of the above information and your agreement with the requirements contained herein.

Receipt Acknowledged by (Type or Print Name)_____

Signature _____ Date: _____

Title (Type or Print) _____

Company Name (Type or Print) _____

Company Address (Type or Print) _____

Company Telephone Number (Type or Print) _____

4. OPERATIONS AND MAINTENANCE ACTIVITIES

The O & M activities to be conducted at the facility shall include routine and emergency cleaning of areas and surfaces that are potentially asbestos-contaminated (i.e., areas where visibly damaged friable ACBM exists on floors, on equipment, or on other surfaces), small-scale projects of short duration for removal or repair of ACBM, and periodic reinspection of locations within the facility where ACBM have been identified. Employees involved in O & M activities shall be required to complete the O & M training specified in Part 3 of this O & M Program.

The following O & M activities are to be carried out only by employees with appropriate training:

1. Specific work practices for spot repairs of ACBM, and routine cleaning of visibly asbestos- contaminated areas or surfaces.

    a. All persons other than those involved in the O & M activity shall be restricted from entry to the area by physically isolating the area. For spot repairs, airtight barriers shall be constructed to insure that asbestos fibers released during abatement activities are contained within the work area. The use of glovebags will be permitted in place of a barrier for repair of ACBM located on pipes.

    b. Warning signs shall be posted at the entrance to each work area. The warning sign shall read as follows:

DANGER
ASBESTOS
CANCER AND LUNG DISEASE HAZARD
AUTHORIZED PERSONNEL ONLY
RESPIRATORS AND PROTECTIVE CLOTHING
ARE REQUIRED IN THIS AREA

    c. Air handling systems shall be shut off or temporarily modified to prevent entry of air from the work area into other parts of the building and to restrict other sources of air movement.

    d. All personnel within work areas shall be required to wear personal protective equipment. Full-body disposable fiber-resistant suits with foot coverings and hoods shall be worn over clothing while personnel remain within work areas. In addition, respirators shall be worn in accordance with the OSHA requirements for respiratory protection. At a minimum, half-mask dual-cartridge respirators equipped with HEPA filters shall be worn while remaining in each work area.

4. OPERATIONS AND MAINTENANCE ACTIVITIES (cont.)

e. When cleaning asbestos-contaminated floors or surfaces, personnel shall use proper work practices. Floors shall be cleaned by wet mopping, steam cleaning, and/or HEPA vacuuming. Other surfaces shall be cleaned by wet cleaning/wiping or by HEPA vacuuming. Vacuums without HEPA filtration shall not be used to clean asbestos-contaminated surfaces. Creating dust shall be avoided. All wet cloths, rags, or mops used to clean asbestos-contaminated surfaces shall be disposed of as described in Part 4.(4) below.

f. Spot repair shall be performed only on less than 3 linear feet or 3 square feet of insulation, and shall be conducted only in instances where asbestos abatement is not the principal purpose of the operation. Spot repairs of pipe, tank, or other thermal system insulation shall be conducted by patching sections of insulation using patching compounds of nonasbestos cement to fill in large gouges or missing sections of insulation. The insulation surfaces thus patched shall then be covered with fiberglass cloth impregnated with plaster. The fiberglass cloth shall be applied as follows:

i. Cut a sufficiently large section of fiberglass cloth to cover the affected areas of insulation. This cloth shall be wrapped around the entire diameter of the affected pipe.

ii. The fiberglass cloth shall be dipped in a bucket of water and carefully placed over the damaged section of insulation without creating dust or debris. The cloth shall be smoothed by hand so that the cloth remains firmly attached to the insulation.

iii. Any dust or debris created by this operation shall be cleaned by wet cleaning or HEPA vacuuming.

g. Documentation of all spot repairs shall be maintained with the permanent building records. This documentation shall include, as a minimum, the identity of the skilled trades worker performing the spot repair, the date the spot repair was performed, the specific location of the repair, the methods used, the quantity of the asbestos involved, and receipts for the disposal of any asbestos waste.

2. Specific work practices for spot removal of ACBM by glovebag technique.

a. Glovebag operations shall be conducted in conformance with the work practices set forth in Appendix C of the Occupational Safety and Health Administration (OSHA) Asbestos Regulation for Construction (29 CFR 1926.58). A glovebag is a single-use device that shall be disposed of after removal of a single section of ACBM pipe insulation.

4. OPERATIONS AND MAINTENANCE ACTIVITIES (cont.)

b. Glovebag operations shall be allowed only for removing less than three (3) linear feet of pipe insulation for operations where the principal purpose is not asbestos abatement. No ACBM insulation shall be removed without prior approval of the Asbestos Program Manager.

c. All requirements outlined in this Part 4 (1) (a), (b), (c), and (d) shall be adhered to when performing glovebag operations.

d. Glovebags shall be installed so that they completely cover the pipe in such a manner as to prevent leakage of air or asbestos fibers. The arms, open edges, and other openings in the glovebag shall be sealed with duct tape.

e. The ACBM shall be wetted before its removal and shall be maintained in a wet condition inside the glovebag.

f. The upper portion of the glovebag and surfaces from which asbestos has been removed shall be cleaned by wet wiping until no visible material remains.

g. Removed ACBM shall be deposited in the bottom of the glovebag. A HEPA vacuum shall be employed to exhaust excess air from the bag. NOTE: Do not use vacuums without HEPA filtration to exhaust excess air from the glovebag. The glovebag and its contents shall be removed from the pipe and immediately containerized in a second, labeled, 6-mil thick polyethylene bag before disposal.

3. Maintenance activities other than small-scale projects of short duration. NOTE: All fiber release episodes, major or minor, shall be immediately reported to the Asbestos Program Manager.

a. Minor fiber-release episode (i.e., the falling or dislodging of three (3) square or linear feet or less of friable ACBM).

i. Thoroughly saturate the debris using wet methods in such a manner as to minimize disturbance of fibers.

ii. Place the asbestos debris in a sealed, leak-proof container.

iii. Clean the area by HEPA vacuuming and wet wiping/mopping of all visible debris in the area. NOTE: Do not use vacuums without HEPA filtration to clean asbestos- contaminated surfaces. All wet cloths, rags, or mops used to clean asbestos debris shall be disposed of as described in Part 4.(4) below.

iv. Repair the area of damaged ACBM with materials such as asbestos-free spackling, plaster, cement, or insulation, or seal with latex paint or an encapsulant.

v. Only employees who have received appropriate O & M training shall perform this work.

4. OPERATIONS AND MAINTENANCE ACTIVITIES (cont.)

b. Major fiber-release episode (i.e., the falling or dislodging of more than three (3) square or linear feet of friable ACBM).

i. Immediately restrict entry into the area and post signs to prevent entry into the area by persons other than those necessary to perform the response action.

ii. Shut off or temporarily modify the air handling system to prevent the distribution of fibers to other areas in the building.

iii. Contact the area supervisor.

iv. Only a licensed Asbestos Abatement Contractor shall conduct the response action for any major fiber-release episode and only after the appropriate regulatory agencies are notified.

4. Waste disposal procedures

a. Wastes include process wastes, housekeeping wastes, removal job wastes, contaminated disposable protective clothing, and filters.

b. Vacuum bags and filters shall not be cleaned. Instead, they shall be sprayed with a fine water mist and placed into a labeled waste container.

c. Process and housekeeping wastes shall be wetted with water or a mixture of water and wetting agent (penetrating-type fluid) before packaging them in disposable containers.

d. ACBM from removal jobs shall be disposed of in leak-proof, double 6-mil thickness plastic bags, plastic-lined cardboard containers, or plastic-lined metal containers. These wastes, which shall be wet when removed, shall be sealed in containers before they dry out in order to minimize fiber release during handling.

e. All asbestos wastes generated at the facility shall be placed in a designated storage area(s). The asbestos waste shall be labeled, transported, and disposed of according to the United States Environmental Protection Agency (U.S. EPA) regulation Title 40 CFR Part 61.

5. PERIODIC REINSPECTION

At least once every six months, each building that contains ACBM or is assumed to contain ACBM shall be reinspected. The inspection shall be conducted by individuals familiar with the building and the locations of ACBM. Those individuals shall have been trained to perform O & M tasks or trained as Asbestos Inspectors. The findings of the reinspections shall be reported to the Asbestos Program Manager, and they shall be kept on file.

At a minimum, the following activities shall be performed during the reinspection:

1. Visually inspect all areas that are identified in the survey report as containing ACBM or as assumed to contain ACBM.
2. Record the date of the reinspection, name of the inspector, and changes in the condition of the materials, including damage due to water, contact, and other damage. Changes in building use that may have an impact on ACBM, such as installation of new equipment, shall be recorded.
3. Submit the information identified in the reinspection for inclusion in the survey report.

A checklist similar to the one in Figure 5-1 shall be used for the periodic reinspections.

In addition, air monitoring to detect airborne asbestos fibers in the building may be used to provide supplemental information during the physical and visual reinspection. Increases in airborne fiber concentrations from earlier levels may indicate unseen damage or disturbance to ACBM and may provide early warning of a potential problem to the Asbestos Program Manager.

Figure 5-1

CHECKLIST FOR
PERIODIC REINSPECTION
OF
ASBESTOS-CONTAINING BUILDING MATERIALS (ACBM)

Paul J. Sutcovoy Army Reserve Center
Lydia Street Extension
Waterbury, Connecticut

Checklist

Name of Inspector _____

Date of Inspection _____

ACBM	LOCATION	CHANGE	No CHANGE	COMMENTS
Main Building				
White block-type pipe insulation	Women's restrooms			
Mudded fitting insulation	Kitchen			
9"x9" floor tiles and underlying mastic adhesive	Kitchen, Vestibule, Lobby, Basement hall, Locker rooms			
OMS				
Green transite board	Above ceiling heaters			
White window caulking				

6. RECORDKEEPING

The facility shall maintain records on employee training, personal air monitoring, medical surveillance, reinspection results, cleaning and other Operations and Maintenance activities, and asbestos abatement performed at the facility. In addition, minor and major fiber- release episodes shall be recorded and kept with this O & M Program.

Employee records concerning personal air monitoring and medical surveillance shall be maintained as outlined in OSHA Regulation 1910.1001. This regulation requires that these records be kept on file for at least thirty (30) years.

For each preventive measure and response action taken for ACBM, the facility shall keep records of the following:

1. A detailed written description of the measure or action, including methods used, the location where the measure or action was taken, reasons for selecting the measure or action, starting and completion dates of the work, names and addresses of all contractors involved, and, if ACBM are removed, the name and location of the storage or disposal site of the ACBM. Refer to Appendix M for detailed procedures for each type of response action.

2. The name and signature of any person collecting any air sample, the locations where samples were collected, date of collection, the name and address of the laboratory analyzing the samples, the date of analysis, and the method of analysis.

3. A record of the periodic reinspection required every six (6) months; the name of the inspector, the date, and changes in the conditions of materials noted during the periodic inspection.

4. A description of Operations and Maintenance activities, the name of each person performing these activities, the start and completion dates of the activities, the locations where such activities occurred, a description of the activities used, including preventive measures, and, if ACBM are removed, the name and location of the storage or disposal site of the ACBM.

5. A description of each fiber-release episode, the date and location of the episode, the method of repair, preventive measures or response action taken, the name of each person performing the work, and, if ACBM are removed, the name and location of the storage or disposal site of the ACBM.

CT 010

HISTORIC RESOURCES INVENTORY

BUILDINGS AND STRUCTURES

HIST-6 REV 6/83

STATE OF CONNECTICUT
CONNECTICUT HISTORICAL COMMISSION
59 SOUTH PROSPECT STREET, HARTFORD, CONNECTICUT 06106
(203) 566-3005

FOR OFFICE USE ONLY	
Town No.:	Site No.:
UTM	
QUAD:	
DISTRICT: ☐ S ☐ NR	IF NR, SPECIFY: ☐ Actual ☐ Potential

IDENTIFICATION

1. BUILDING NAME (Common): Paul J. Sutcovoy U. S. Army Reserve Center (Historic):
2. TOWN / CITY: Waterbury | VILLAGE: | COUNTY:
3. STREET AND NUMBER (and / or location): Lydia Street Extension
4. OWNER(S): U. S. 94th Army Reserve Command (94th ARCOM) Military ☐ Public ☐ Private
5. USE (Present): Defense - military training (Historic):
6. ACCESSIBILITY TO PUBLIC: limited | EXTERIOR VISIBLE FROM PUBLIC ROAD: [X] Yes ☐ No | INTERIOR ACCESSIBLE: [X] Yes ☐ No | IF YES, EXPLAIN: active military facility - permission required

DESCRIPTION

7. STYLE OF BUILDING: Contemporary - American International | DATE OF CONSTRUCTION: 1957
8. MATERIAL(S) (Indicate use or location when appropriate)
   - ☐ Clapboard ☐ Asbestos siding [X] Brick ☐ Other (Specify)
   - ☐ Wood shingle ☐ Asphalt siding ☐ Fieldstone
   - ☐ Board & batten ☐ Stucco ☐ Cobblestone
   - ☐ Aluminum siding ☐ Concrete Type: ☐ Cut stone Type:
9. STRUCTURAL SYSTEM
   - ☐ Wood frame ☐ Post and beam ☐ Balloon
   - [X] Load-bearing masonry ☐ Structural iron or steel
   - ☐ Other (Specify)
10. ROOF (Type)
    - ☐ Gable ☐ Flat ☐ Mansard ☐ Monitor ☐ Sawtooth
    - ☐ Gambrel ☐ Shed [X] Hip ☐ Round ☐ Other (Specify)
    - (Material)
    - ☐ Wood shingle ☐ Roll asphalt ☐ Tin ☐ Slate
    - [X] Asphalt shingle ☐ Built up ☐ Tile ☐ Other (Specify)
11. NUMBER OF STORIES: One | APPROXIMATE DIMENSIONS: 145' x 114'
12. CONDITION (Structural): ☐ Excellent [X] Good ☐ Fair ☐ Deteriorated | (Exterior): ☐ Excellent [X] Good ☐ Fair ☐ Deteriorated
13. INTEGRITY (Location): [X] On original site ☐ Moved | WHEN? | ALTERATIONS: [X] Yes ☐ No | IF YES, EXPLAIN: hip roofs built over original flat roofs
14. RELATED OUTBUILDINGS OR LANDSCAPE FEATURES
    - ☐ Barn ☐ Shed [X] Garage ☐ Other landscape features or buildings (Specify)
    - ☐ Carriage house ☐ Shop ☐ Garden
    - three-bay maintenance shop (MS) garage
15. SURROUNDING ENVIRONMENT
    - ☐ Open land [X] Woodland [X] Residential ☐ Scattered buildings visible from site
    - ☐ Commercial ☐ Industrial ☐ Rural ☐ High building density
16. INTERRELATIONSHIP OF BUILDING AND SURROUNDINGS

Fenced reserve facility overlooking Waterbury from a wooded terrace.

(OVER)

17. OTHER NOTABLE FEATURES OF BUILDING OR SITE (Interior and/or exterior)

DESCRIPT (Continued)

18 ARCHITECT

Reisner & Urbahn

BUILDER

19. HISTORICAL OR ARCHITECTURAL IMPORTANCE

SIGNIFICANCE

See attached architectural description and historical significance statement.

SOURCES

Fort Devens Real Property Office Records
Facility Records

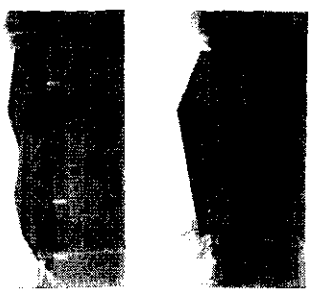
PHOTO

PHOTOGRAPHER: Kirk Van Dyke

DATE: March 31, 1995

VIEW: Looking southeast R3 F21,23

NEGATIVE ON FILE: 94th ARCOM HQ, Fort Devens, MA



COMPILED BY

NAME: Matt Kierstead

DATE: August 8, 1995

ORGANIZATION: The Public Archaeology Laboratory, Inc.

ADDRESS: 210 Lonsdale Avenue, Pawtucket, Rhode Island 02860

20 SUBSEQUENT FIELD EVALUATIONS

21 THREATS TO BUILDING OR SITE

☐ None known ☐ Highways ☐ Vandalism ☒ Developers ☒ Other

☐ Renewal ☐ Private ☐ Deterioration ☐ Zoning Explanation

Community: Waterbury
Property Address: Lydia Street Extension

ARCHITECTURAL DESCRIPTION ***(continued)***

The Private First Class Paul J. Sutcovoy United States Army Reserve Center, designed by Reisner & Urbahn and built in 1957 as a 400-man center, is an L-shaped, one-story structure, with a 114-foot by 48-foot administrative and classroom block, and a 72-foot by 52-foot drill hall wing. The drill hall is connected to the main block at the southeast corner by a 25-foot long corridor, which also serves as the front (south) entrance to the center. The front doors are metal-framed with plate glass windows. All walls are concrete block with exterior brick veneer. The main block and the drill hall both originally had flat roofs, which were altered to asphalt-shingled, low-pitch hip roofs with ridges in a late 1980s renovation. The main block is a long, low building, with overhanging eaves, and a thin concrete string course above the windows. The long, west elevation contains thirteen recessed, metal-sash replacement windows with two vertical panes on slightly protruding concrete sills. This type of window also appears on the north and west elevations. These windows replaced the original four- and six-pane, metal-sash windows. The ground line is punctuated by cast concrete basement light wells located at ten-foot intervals. Interior features include administrative offices and classrooms arranged along a double-loaded corridor, a kitchen, locker rooms, boiler room, weapons vault, and equipment storage. The drill hall is a taller, 22-foot high structure, lit by six-foot high bands of replacement, metal sash windows which span the length of the tops of the long, north and south side walls. Each window bay has a slightly protruding concrete sill. The walls are divided into four wide bays which express the location of the three I-beams which support the diagonally-braced, open-web steel roof joists. The north wall of the drill hall contains a roll-type garage door for vehicle access. The drill hall floor is a thick concrete slab to support the weight of heavy military vehicles. The east and west end walls of the drill hall are unfenestrated brick.

One related outbuilding, the Maintenance Shop (MS), is located approximately 65 feet north of the main block. The maintenance shop, also designed by Reisner & Urbahn, and built in 1957, is a 70-foot by 53-foot, three-bay, one-story, brick vehicle garage, with a slightly pitched, built-up roof, capped with wide metal coping. Three large roll-type garage doors with small oval windows fill the front (west) bays, and the east and west side walls are divided into three bays by brick pilasters which support the roof beams. Personnel access doors are located in the north and south walls of the building. The maintenance shop is lit by a band of windows high on the rear (east) elevation.

The Pfc. Paul J. Sutcovoy Reserve Center is located on a 6.9-acre graded lot at the southwest end of Lydia Street Extension. The reserve center lot is flat and bordered on the east, west, and south sides by steep, wooded ground. The property is surrounded by a perimeter fence. A gated driveway leads to parking areas west and north of the main building and to the maintenance shop. Landscaping is minimal, consisting of open, mown lawns, trimmed yews, and a few small trees.

The Pfc. Paul J. Sutcovoy Reserve Center is an altered example of the main design phase of a series of similar reserve centers constructed across the United States from the early 1950s to the early 1960s. These spartan buildings were designed according to an architectural program developed by the U.S. Army Corps of Engineers and the New York architectural firm of Reisner & Urbahn, and a later incarnation, Urbahn, Brayton & Burrows. The reserve centers were built from a set of master plans, which were adapted as necessary to conform to military capacity requirements, and modified to conform to specific site configurations. The reserve center design program combined the need for low cost, easy expansion, and uniformity with Contemporary, International Style-derived architectural features such as hard-edged rectangular massing, flat roofs, lack of ornamentation, and emphasis on simple materials and regular rhythms of fenestration. The use of the Contemporary Style, combined

with the function and interior layout of the reserve centers, resulted in a building type which resembles primary school architecture, as well as corporate and municipal buildings of the period. The addition of the hipped, asphalt-shingled roofs has altered the original appearance and architectural integrity of the Pfc. Paul J. Sutcovoy Reserve Center.

HISTORICAL SIGNIFICANCE *(continued)*

The United States Army Reserve (USAR) is a Federal military organization distinct from the full-time, professional Regular Army and the state National Guard. The USAR is maintained as a source of personnel to rapidly support the Regular Army in the event of conflict. The USAR is composed of "citizen-soldiers," civilians committed to a period of duty in exchange for benefits and pay. The history of the USAR has been characterized by conflict between the Regular Army, U.S. Presidents, and Congress over the combat role and funding of the USAR. This conflict resulted in early difficulties in reaching projected goals for equipment, facilities, and utilization. The USAR has its origins in the Colonial state militia, informally trained citizens organized against the British Army during the Revolution. The modern USAR has its roots in the Medical Act of 1908, which started a reserve force of medical officers. Distinct organizations of reserve officers and regulars participated in World War I. During the 1930s, the Works Projects Administration provided reserve officers with the opportunity to run Civilian Conservation Corps camps.

The USAR also sent soldiers into combat during World War II. The postwar period was a time of change for the USAR, as emerging Cold War defense philosophy called for a larger reserve force to augment the Regular Army. Reliance on nuclear detente during the Cold War drew attention away from the development of the USAR, and reduced its effectiveness in the Korean Conflict. The USAR was not a major participant in the Vietnam War, as President Lyndon Johnson anticipated the negative political implications of USAR mobilization for an unpopular war. Under Nixon's 1970 Total Force policy, the USAR was made an all-volunteer force with an increased combat role and increased benefits and pay. Overall, USAR equipment and facilities have been increased since World War II. These gains have been vital for USAR units in reaching unit size and readiness requirements.

The USAR remains an active element in the U.S. military establishment. In the event of mobilization, USAR units are assimilated into the Regular Army to provide service and support. Army reservists today are required to attend forty-eight 4-hour drills per year at a Reserve Center, where Army training staff instruct them in procedure and the use of equipment, and one 15-day intensive summer training camp. Military training personnel of the 98th Training Division are stationed at New England reserve centers to provide instruction. USAR activities in New England and New York are controlled by the 94th Regional Support Command (RSC) headquartered at Fort Devens, Massachusetts.

Prior to the end of World War II, defense policy makers were already planning for the Cold War. Defense plans called for an increased role for the Army Reserve, which was to augment the Regular Army in times of national emergency. The Army Reserve lacked proper facilities for training and equipment after World War II, and reserve units could not be activated without them. The War Department recommended that the Federal Government appropriate funds for armory (reserve center) land purchases and construction. This appropriation required Congressional approval, and in May 1946, H.R. 5762, a bill for armory construction funds was introduced into Congress. This bill failed due to disagreements over funding allocation and property ownership, as did six other pieces of legislation introduced over four years. On September 11, 1950, the 81st Congress passed H.R. 8594, the National Defense Facilities Act, which gave the reserve components $250 million for construction over five years. This bill was amended in 1955, allocating another $25 million for reserve construction.

During this period the reserve components were developing the new reserve center concept. Proposed facility criteria and specifications were collected from numerous military agencies, and approved by the Secretary of Defense. From this information sketches and models were made by the Corps of Engineers, and reviewed by the parties involved. From the resulting comments the Corps of Engineers developed construction criteria, and finished drawings were made by selected outside architects and engineers such as Reisner & Urbahn. Reisner & Urbahn were known by the Corps of Engineers for successful work with National Guard armory design, and were awarded the commission for the New England reserve centers after funding was insured by passage of the National Defense Facilities Act. Due to similar facility needs the reserve center program was overseen by the National Guard Bureau. Designers recognized that due to changing military tactics and technology, instruction space would take precedence over the traditional drill hall in the new architectural environment they were designing. Other requirements included storage space and offices. The reserve centers were typically constructed using inexpensive materials, were devoid of ornamentation, and were designed to blend into their architectural surroundings. Standardization was important for construction efficiency and was key to facilitating the expansible nature of the design, which allowed for additional wings to be added to increase the capacity of the reserve center. The bulk of the Reisner & Urbahn reserve centers were constructed in the mid-1950s, particularly after the additional funds acquired by the amendment of the National Defense Facilities Act in 1955. The Reisner & Urbahn New England reserve center campaign ended in 1964, with 23 reserve centers constructed. After this large commission, reserve facility policy shifted to the utilization of existing defense facilities. This facility was built on 6.9 acres purchased from Max R. Taurig for $27,600 on February 21, 1957.

The function of this reserve center is to provide administrative, classroom, maintenance, and storage space to Army Reserve personnel and assigned Army Reserve units. The reserve center serves as a base of operations for specialized units that can be mobilized and assimilated into the Regular Army when required. At the reserve center, assigned Army Reserve units receive advanced individual training in the use of military equipment, weapons, tactics, and vehicles. In the event of mobilization with a draft, U.S. Army training instructors stationed at the reserve center are deployed to conduct basic training of draftees. Military instruction at the reserve center takes place in the classrooms and in the drill hall, which is used for general assemblies and drill practice and can accommodate large military vehicles. A kitchen is also associated with the drill hall. Administrative office space is provided for full-time unit support personnel, including the Facility Manager, who is responsible for the day-to-day operation and maintenance of the facility; and the Unit Administrator, who is responsible for unit personnel, pay, promotion, and supply. In the event that the assigned reserve units are mobilized, the reserve center also provides home support for the units. The reserve center also serves as an Army Reserve recruiting center.

This maintenance shop is a motor vehicle garage used by reserve center personnel for routine periodic maintenance and storage of smaller assigned unit vehicles. Tasks performed at the maintenance shop include oil changes, lubrication, battery filling, light running repairs, and minor maintenance such as tire changing, replacement of light bulbs, and minor painting, tuning and washing. Heavier repairs are performed at a centralized regional Area Maintenance Support Activity (AMSA) facility which is discussed on a separate form. The maintenance shop is now also used for unit equipment storage, with most assigned unit vehicles stored outdoors.

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National Archives and Records Administration, Washington, DC and College Park, MD
Record Groups 168, 319, and 407

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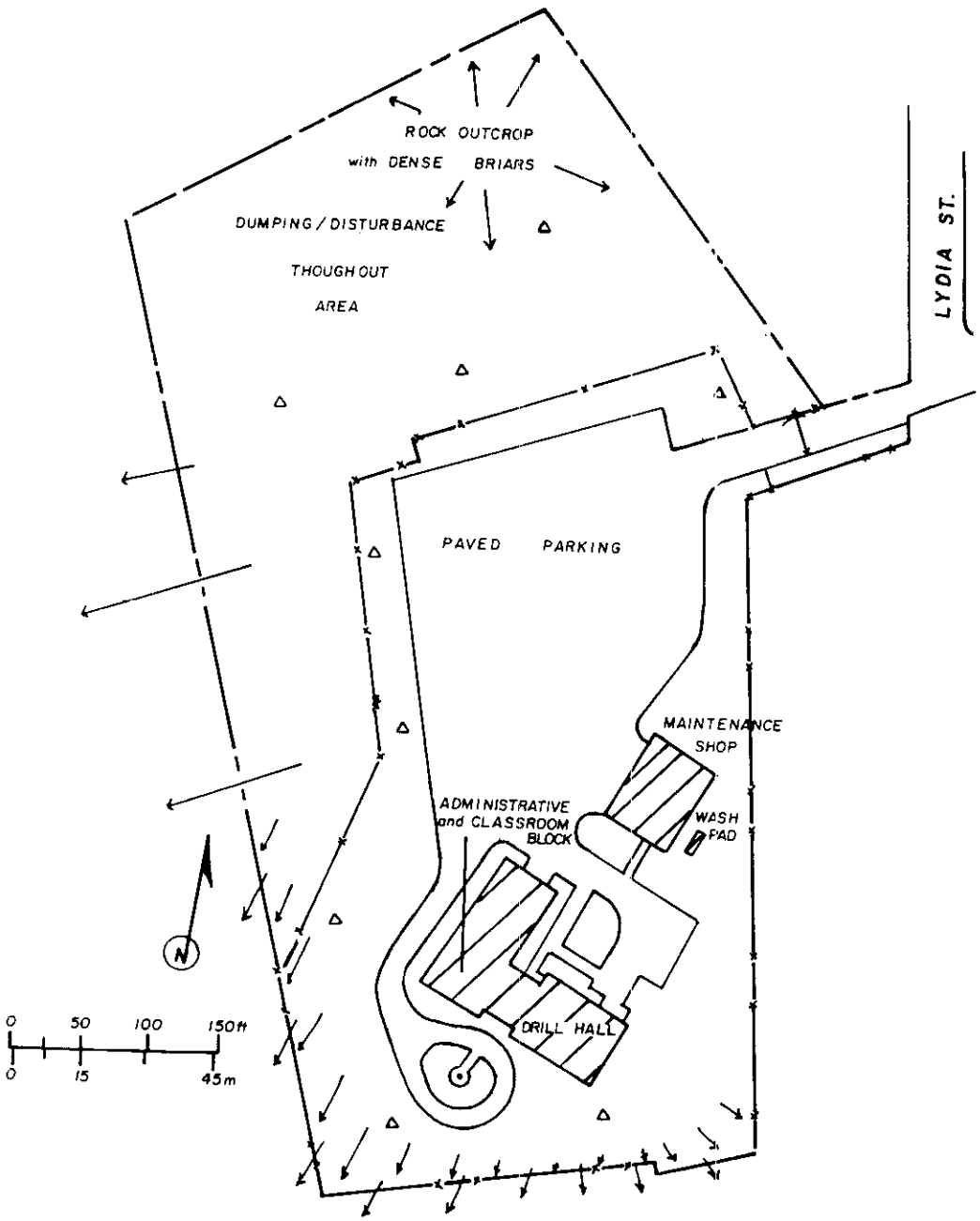
1995 Facility Files

Urbahn, Max
1995 Interview with Matt Kierstead, Pawtucket, Rhode Island, May 17, 1995.

SITE PLAN OF THE PRIVATE FIRST CLASS PAUL J. SUTCOVOY USARC



CleanHarbors
ENVIRONMENTAL ENGINEERING CORPORATION
325 WOOD ROAD, BRAINTREE, MA 02184
(617) 849-1200

October 18, 1990

Ms. Claudia Johnson
Contract Administrator
U.S. Department of the Army
Headquarters-Fort Devens
Fort Devens, MA 01433

Re: Underground Storage Tank Removal and Replacement
U.S.A.R.C. Lydia Street Extension
Waterbury, Connecticut (the site), CHEE Job File No. E-2955

Dear Ms. Johnson:

Clean Harbors Environmental Engineering, Inc. (CHEE) is pleased to present the following letter report detailing the removal and replacement of two underground storage tanks.

The first of these tanks to be replaced was a 1,000-gallon underground #2 fuel oil tank located at the east side of the maintenance shop at the site. This work was performed by Clean Harbors of Kingston, Inc. Connecticut Division (CHI-CT). Prior to removal of the tank, the remaining product was transferred to a 275-gallon tank to temporarily supply the furnace. The tank was then cleaned, removed, and inspected. The integrity of the tank appeared good with very little rust and pitting. The tank was then removed from the site by Shire Corporation for disposal.

Disposal cost ?

Following removal of the tank, a total of thirteen samples were taken from the excavation and the stockpiled soils. These samples were collected in glass jars, shaken, and allowed to equilibrate and then screened with a portable photoionization detector (an HNU meter). The approximate sampling locations are presented on the site plan presented as Figure 1. Field screening of the soil samples (designated as "A" through "J") resulted in non-detectable levels of contamination. Four of these samples, (A, B, C, & G) were composited and transported to Clean Harbors Analytical Services in Braintree, Massachusetts. The parameters for which these samples were analyzed consisted of Total and Petroleum Hydrocarbon Oil and Grease by Infrared Spectroscopy (IR), 8 metals E.P. Toxicity, Poly Chlorinated Biphenals (PCB's) and Volatile Organic Compounds (by E.P.A. Method 8240). Results of these analyses indicated non-detectable levels of contamination. The Laboratory Reports of Analysis for soil samples collected during tank removal procedures are presented in Appendix A.

The excavated soil was stockpiled on site and later removed from the site by Wilcox Trucking Company. Tank disposal was handled by Shire Corporation of North Franklin, Connecticut. Installation of the new 1,000-gallon double wall fiberglass tank began on March 29, 1990 and was completed on April 10, 1990.

On June 13, 1990, removal of a 10,000-gallon #2 fuel oil tank began with the transfer of approximately 1,000-gallons of product to a temporary tank to supply the furnace. The existing tank was then cleaned and the petroleum contaminated solids were transported to Clean Harbors of

Kingston, Massachusetts for disposal as were the solids from the 1,000-gallon tank removal. The tank was then removed from the ground. Inspection of the tank revealed very little rust or corrosion as the majority of the tank coating remained intact.

On June 15, 1990, CHI-CT collected a total of twelve soil samples from the excavation at a depth of approximately 9-feet below the ground surface. These samples were also field screened with an HNU, using the same procedures followed for the previous tank. Hnu field screening resulted in elevated volatile organic compound concentrations at the west side of the excavation. The approximate sampling locations are included on the Site Plan and HNU field screening results are listed below.

HNU Field Screening Results
Parts per Million (PPM)

S - 1 = 45	S - 7 = ND
S - 2 = 11.5	S - 8 = ND
S - 3 = 18	S - 9 = ND
S -4 = 26	S -10 =ND
S - 5 = 9	S -11 =ND
S - 6 = 5	S -12 =ND

Since the tank was inspected and found to be structurally sound, CHI-CT feels that the relatively low level of soil contamination detected during field screening, is likely due to spillage and overflow during tank refilling. Approximately one cubic yard of contaminated soil were removed during excavation activities. This soil was drummed and transported to Clean Harbors of Braintree, Inc. for disposal, along with the petroleum contaminated solids. Disposal Manifests are included as Appendix B.

Once field screening of the soil samples was completed, the samples were composited and transported to Clean Harbors Analytical Services in Braintree, Massachusetts. These samples were analyzed consisted of Total and Petroleum Hydrocarbon Oil and Grease by Infrared Spectroscopy (IR), 8 metals E.P. Toxicity, Poly Chlorinated Biphenals (PCB's) and Volatile Organic Compounds (by E.P.A. Method 8240).

Laboratory analysis conducted on the composite samples resulted in non-detectable to acceptable levels of contamination with the exception of elevated petroleum hydrocarbon contamination (220ppm) in one of the two samples which as stated earlier, CHEE believes was due to over fills and spillage. The Chain-of-Custody and Laboratory Reports of Analysis for the 10,000-gallon and the 1,000-gallon tank removal are presented in Appendix A.

The 10,000-gallon steel tank was replaced with a double wall fiberglas unit of the same size. This installation was completed along with all finish site work on August 30, 1990.

Thank you for allowing us the opportunity to serve you. If there are any questions or comments regarding this infomation, please feel free to contact this office.

Sincerely,

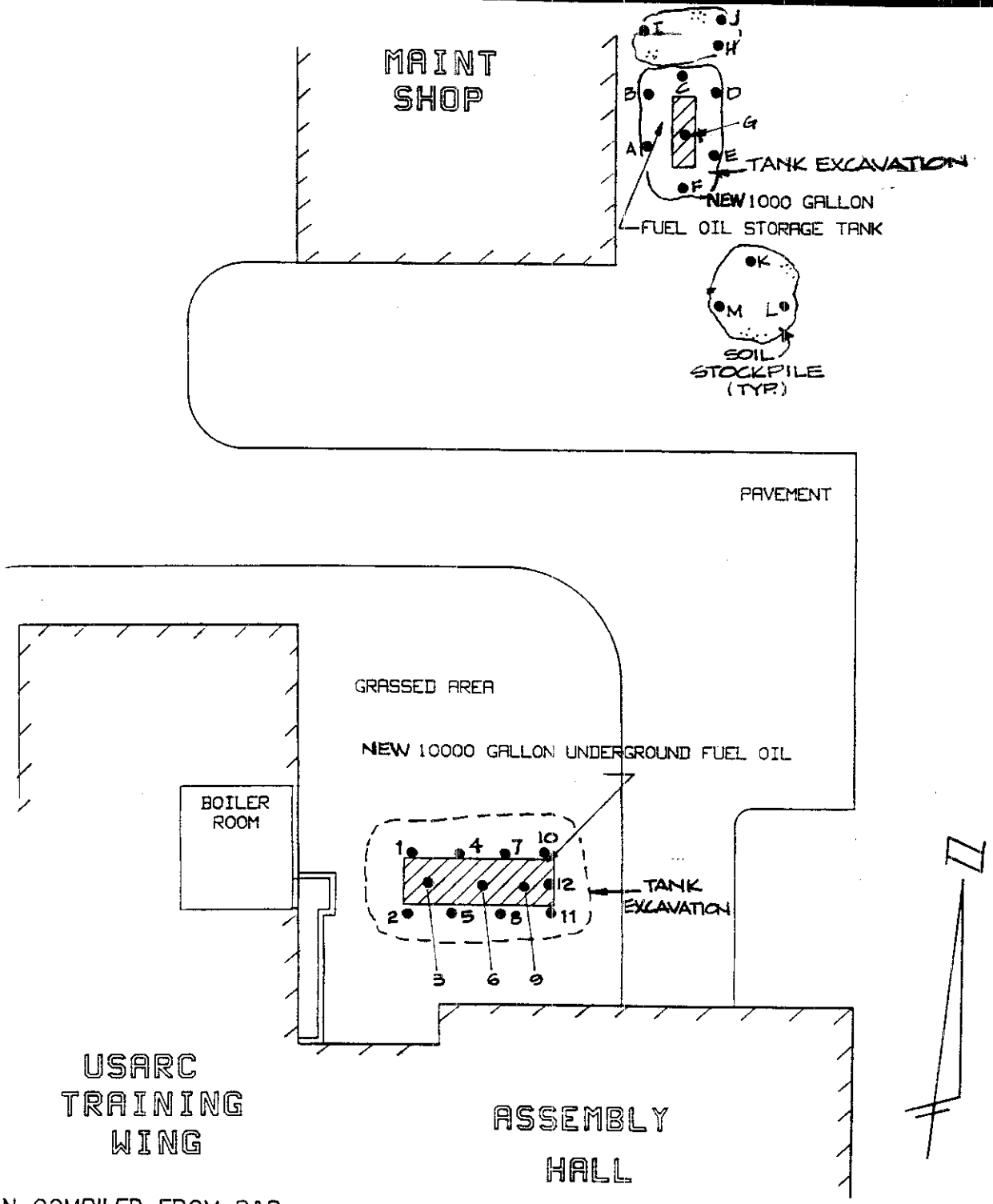
Connie Hubbard Cullen
General Manager

David Gworek P.E.
Operations Manager

Daniel G. Gailor
Senior Engineering Assistant

DGG/jmh

USARC Tank Removal/Misc. Ltrs



NOTE:
INFORMATION COMPILED FROM R&R UNDERGROUND FUEL STORAGE TANK PLANS DATED JUNE 16, 1989 BY U.S. DEPARTMENT OF THE ARMY.

ISSUE	DESCRIPTION	DRWN.	CHKD.	APPR.	DATE
A	PRELIMINARY	DGG			

CleanHarbors
ENVIRONMENTAL ENGINEERING, INC.
325 Wood Road
Braintree, Massachusetts 02184
Telephone (617) 849-1200/1800

U.S.A.R.C.
MERIDAN STREET
WATERBURY, CONNECTICUT

SITE PLAN

PROJECT NO. E-2955
SCALE NONE
DWG. NO. 2955-C-01

CleanHarbors
ANALYTICAL SERVICES
325 WOOD ROAD, BRAINTREE, MA 02184
(617) 849-6070

REPORT OF ANALYSIS

Clean Harbors of Connecticut
60 Peter Court
New Britain, CT 06051

Project: WATERBURY USARC
P.O. #: C-3967

Date Received: 06/20/90
CHAS Lab #: 9006167

Attn: Mr. Dave Gworek

Enclosed are the results for the sample(s) delivered to our laboratory on the date indicated above.

The methods listed represent those methodologies which were used to develop the best analytical techniques. Analytical results and quality assurance protocols are based on these guidelines. These meet the requirements for the reporting of results under the RCRA, NPDES and Safe Drinking Water Act regulations.

Clean Harbors Analytical Services has an active program of quality assurance and quality control. The program closely follows the guidance provided in the EPA Contract Laboratory Program Statement of Work (organic - 7/87 and inorganic - 7/85), the guidance provided in SW-846, and many other pertinent documents.

Should you have any questions concerning this work, please do not hesitate to contact me.

The information contained in this report is, to the best of my knowledge, accurate and complete.

Per/Date: _____ 13 July 199

Robert E. Bentley
Laboratory Manager

Client: Clean Harbors of Connecticut
Sample I.D.: 24581112
Sample Type: Soil

CHAS Lab #: 9006167-01A
Date Received: 06/20/90

Volatile Organic Analysis - System: #1
by EPA Method 8240(ref. c)

Analysis Date: 06/21/90

Parameter	MDL*	Conc.*
Priority Pollutant Compounds:		
Chloromethane	19	ND
Bromomethane	19	ND
Vinyl Chloride	19	ND
Chloroethane	19	ND
Methylene Chloride	9	ND
Trichlorofluoromethane	9	ND
1,1-Dichloroethene	9	ND
1,1-Dichloroethane	9	ND
trans-1,2-Dichloroethene	9	ND
Chloroform	9	ND
1,2-Dichloroethane	9	ND
1,1,1-Trichloroethane	9	ND
Carbon Tetrachloride	9	ND
Bromodichloromethane	9	ND
1,2-Dichloropropane	9	ND
cis-1,3-Dichloropropene	9	ND
Trichloroethene	9	ND
Benzene	9	ND
Dibromochloromethane	9	ND
1,1,2-Trichloroethane	9	ND
trans-1,3-Dichloropropene	9	ND
2-Chloroethylvinyl Ether	19	ND
Bromoform	9	ND
1,1,2,2-Tetrachloroethane	9	ND
Tetrachloroethene	9	ND
Toluene	9	ND
Chlorobenzene	9	ND
Ethylbenzene	9	ND
Hazardous Substance List Compounds:		
Acetone	37	ND
Carbon Disulfide	19	ND
2-Butanone	37	ND
Vinyl Acetate	19	ND
4-Methyl-2-Pentanone	9	ND
2-Hexanone	9	ND
Styrene	9	ND
Total Xylenes	9	ND
Additional Compounds:		
Dibromoethane(EDB)	9	ND
Methyl-t-Butylether(MTBE)	19	ND

Notes ND = Below minimum detectable level (MDL)
TR = Trace amount present but below MDL
* = ug/kg

No additional peaks observed in sample

QA/QC	Surrogate Recoveries:	Acceptance Criteria: Water	Soil
	d4-1,2-Dichloroethane: 103 %	76-114	70-121
	d8-Toluene: 101 %	88-110	84-138
	p-Bromofluorobenzene: 99 %	86-115	59-113

Client: Clean Harbors of Connecticut
Sample I.D.: 24581112
Sample Type: Soil

CHAS Lab #: 9006167-01M
Date Received: 06/20/90

Polychlorinated Biphenyls (PCB's)
by EPA Method 3540/8080

Extraction Date: 06/21/90
Analysis Date: 06/23/90

Parameter	MDL	Concentration	Units
PCB - Aroclor 1016	0.1	ND	mg/kg
PCB - Aroclor 1221	0.1	ND	mg/kg
PCB - Aroclor 1232	0.1	ND	mg/kg
PCB - Aroclor 1242	0.1	ND	mg/kg
PCB - Aroclor 1248	0.1	ND	mg/kg
PCB - Aroclor 1254	0.1	ND	mg/kg
PCB - Aroclor 1260	0.1	ND	mg/kg

Notes: ND = Below minimum detectable level (MDL)
Soil/solid sample results based on sample dry weight

QA/QC Surrogate Recovery:	Acceptance Criteria:	Soil (EPA 3540)
Hexabromobenzene: 100%		78-148%

Client: Clean Harbors of Connecticut
Sample I.D.: 24581112
Sample Type: Soil

CHAS Lab #: 9006167-01M
Date Received: 06/20/90

Parameter	MDL	Result	Units	Analysis Date	Method Number and Reference
Petroleum Hydrocarbon Oil & Grease by IR	10	220	mg/kg	06/22/90	503D/503E-B(b)
Total Solids	--	90.8	%	06/21/90	209F(b)

Notes: ND = Below minimum detectable level (MDL)
Soil/solid samples based on sample dry weight.
Oil & Grease Extraction Date: 06/21/90

Client: Clean Harbors of Connecticut
Sample I.D.: 24581112
Sample Type: Soil

CHAS Lab #: 9006167-01M
Date Received: 06/20/90

Parameter	MDL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Arsenic - EP Toxicity (1)	0.2	ND	06/25/90	06/28/90	3010/6010(c)
Barium - EP Toxicity (1)	0.05	0.08	06/25/90	06/28/90	3010/6010(c)
Cadmium - EP Toxicity (1)	0.005	ND	06/25/90	06/28/90	3010/6010(c)
Chromium - EP Toxicity (1)	0.01	ND	06/25/90	06/28/90	3010/6010(c)
Lead - EP Toxicity (1)	0.1	ND	06/25/90	06/28/90	3010/6010(c)
Mercury - EP Toxicity (1)	0.0002	ND	06/25/90	06/26/90	7470(c)
Selenium - EP Toxicity (1)	0.2	ND	06/25/90	06/28/90	3010/6010(c)
Silver - EP Toxicity (1)	0.02	ND	06/25/90	06/29/90	3005/6010(c)

Sample extracted on 06/21/90

Notes: ND = Below minimum detectable level (MDL)
* = mg/l
Soil/solid samples based on sample dry weight.

(1) Sample was evaluated by EPA Method 1310, EP Toxicity, as described in reference (c).

Client: Clean Harbors of Connecticut
Sample I.D.: 1367910
Sample Type: Soil

CHAS Lab #: 9006167-02A
Date Received: 06/20/90

Volatile Organic Analysis - System: #1
by EPA Method 8240(ref. c)

Analysis Date: 06/21/90

Parameter	MDL*	Conc.*
Priority Pollutant Compounds:		
Chloromethane	18	ND
Bromomethane	18	ND
Vinyl Chloride	18	ND
Chloroethane	18	ND
Methylene Chloride	9	ND
Trichlorofluoromethane	9	ND
1,1-Dichloroethene	9	ND
1,1-Dichloroethane	9	ND
trans-1,2-Dichloroethene	9	ND
Chloroform	9	ND
1,2-Dichloroethane	9	ND
1,1,1-Trichloroethane	9	ND
Carbon Tetrachloride	9	ND
Bromodichloromethane	9	ND
1,2-Dichloropropane	9	ND
cis-1,3-Dichloropropene	9	ND
Trichloroethene	9	ND
Benzene	9	ND
Dibromochloromethane	9	ND
1,1,2-Trichloroethane	9	ND
trans-1,3-Dichloropropene	9	ND
2-Chloroethylvinyl Ether	18	ND
Bromoform	9	ND
1,1,2,2-Tetrachloroethane	9	ND
Tetrachloroethene	9	ND
Toluene	9	ND
Chlorobenzene	9	ND
Ethylbenzene	9	ND
Hazardous Substance List Compounds:		
Acetone	37	ND
Carbon Disulfide	18	ND
2-Butanone	37	ND
Vinyl Acetate	18	ND
4-Methyl-2-Pentanone	9	ND
2-Hexanone	9	ND
Styrene	9	ND
Total Xylenes	9	ND
Additional Compounds:		
Dibromoethane(EDB)	9	ND
Methyl-t-Butylether(MTBE)	18	ND

Notes ND = Below minimum detectable level (MDL)
TR = Trace amount present but below MDL
* = ug/kg

No additional peaks observed in sample

QA/QC	Surrogate Recoveries:	Acceptance Criteria: Water	Soil
	d4-1,2-Dichloroethane: 96 %	76-114	70-121
	d8-Toluene: 95 %	88-110	84-138
	p-Bromofluorobenzene: 96 %	86-115	59-113

Client: Clean Harbors of Connecticut
Sample I.D.: 1367910
Sample Type: Soil

CHAS Lab #: 9006167-02M
Date Received: 06/20/90

Polychlorinated Biphenyls (PCB's)
by EPA Method 3540/8080

Extraction Date: 06/21/90
Analysis Date: 06/23/90

Parameter	MDL	Concentration	Units
PCB - Aroclor 1016	0.1	ND	mg/kg
PCB - Aroclor 1221	0.1	ND	mg/kg
PCB - Aroclor 1232	0.1	ND	mg/kg
PCB - Aroclor 1242	0.1	ND	mg/kg
PCB - Aroclor 1248	0.1	ND	mg/kg
PCB - Aroclor 1254	0.1	ND	mg/kg
PCB - Aroclor 1260	0.1	ND	mg/kg

Notes: ND = Below minimum detectable level (MDL)
Soil/solid sample results based on sample dry weight

QA/QC Surrogate Recovery:	Acceptance Criteria:	Soil (EPA 3540)
Hexabromobenzene: 101%		78-148%

Client: Clean Harbors of Connecticut
Sample I.D.: 1367910
Sample Type: Soil

CHAS Lab #: 9006167-02M
Date Received: 06/20/90

Parameter	MDL	Result	Units	Analysis Date	Method Number and Reference
Petroleum Hydrocarbon Oil & Grease by IR	10	91	mg/kg	06/22/90	503D/503E-B(b)
Total Solids	--	91.1	%	06/21/90	209F(b)

Notes: ND = Below minimum detectable level (MDL)
Soil/solid samples based on sample dry weight.
Oil & Grease Extraction Date: 06/21/90

Client: Clean Harbors of Connecticut
Sample I.D.: 1367910
Sample Type: Soil

CHAS Lab #: 9006167-02M
Date Received: 06/20/90

Parameter	MDL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Arsenic - EP Toxicity (1)	0.2	ND	06/25/90	06/28/90	3010/6010(c)
Barium - EP Toxicity (1)	0.05	0.06	06/25/90	06/28/90	3010/6010(c)
Cadmium - EP Toxicity (1)	0.005	ND	06/25/90	06/28/90	3010/6010(c)
Chromium - EP Toxicity (1)	0.01	ND	06/25/90	06/28/90	3010/6010(c)
Lead - EP Toxicity (1)	0.1	ND	06/25/90	06/28/90	3010/6010(c)
Mercury - EP Toxicity (1)	0.0002	ND	06/25/90	06/26/90	7470(c)
Selenium - EP Toxicity (1)	0.2	ND	06/25/90	06/28/90	3010/6010(c)
Silver - EP Toxicity (1)	0.02	0.03	06/25/90	06/29/90	3005/6010(c)

Sample extracted on 06/21/90

Notes: ND = Below minimum detectable level (MDL)
* = mg/l
Soil/solid samples based on sample dry weight.

(1) Sample was evaluated by EPA Method 1310, EP Toxicity, as described in reference (c).

QUALITY CONTROL

REPORT OF ANALYSIS

CHAS LAB. NO. 9006167

The attached quality control data was generated during the analysis of these samples. The sample data has been corrected for analytes found in the blank (if any). Corrections were performed in accordance with the procedures as stated in the Clean Harbors Analytical Laboratory QA/QC Manual and pertinent SOP's, which are available for review. This data is submitted for informational purposes only.

CleanHarbors

Volatile Organic Analysis Blank - System 1

by EPA Method 624 (ref. f)

Analysis Date: 06/21/90

Parameter	MDL*	Conc.*
Priority Pollutant Compounds:		
Chloromethane	10	ND
Bromomethane	10	ND
Vinyl Chloride	10	ND
Chloroethane	10	ND
Methylene Chloride	5	TR
Trichlorofluoromethane	5	ND
1,1-Dichloroethene	5	ND
1,1-Dichloroethane	5	ND
trans-1,2-Dichloroethene	5	ND
Chloroform	5	ND
1,2-Dichloroethane	5	ND
1,1,1-Trichloroethane	5	ND
Carbon Tetrachloride	5	ND
Bromodichloromethane	5	ND
1,2-Dichloropropane	5	ND
cis-1,3-Dichloropropene	5	ND
Trichloroethene	5	ND
Benzene	5	ND
Dibromochloromethane	5	ND
Fluorotrichloromethane	5	ND

Parameter	MDL*	Conc.
1,1,2-Trichloroethane	5	ND
trans-1,3-Dichloropropene	5	ND
2-Chloroethylvinyl Ether	10	ND
Bromoform	5	ND
1,1,2,2-Tetrachloroethane	5	ND
Tetrachloroethene	5	ND
Toluene	5	ND
Chlorobenzene	5	ND
EthylBenzene	5	ND
Hazardous Substance List Compounds:		
Acetone	20	ND
Carbon Disulfide	10	ND
2-Butanone	20	ND
Vinyl Acetate	10	ND
4-Methyl-2-Pentanone	5	ND
2-Hexanone	5	ND
Styrene	5	ND
Total Xylenes	5	ND
Additional Compounds:		
Dibromoethane (EDB)	5	ND
Methyl-t-Butylether (MTBE)	10	ND

Notes

ND = Below minimum detectable level (MDL)
TR = Trace amount present but below MDL
* = ug/l

QA/QC

Surrogate Recoveries:

1,2-Dichloroethane-D4: 113%
Toluene-D8: 104%
p-Bromofluorobenzene: 89%

Surrogate Acceptance Criteria:

	Water	Soil
1,2-Dichloroethane-D4	76-114%	70-121%
Toluene-D8	88-110%	81-117%
p-Bromofluorobenzene	86-115%	74-121%

Client: Clean Harbors of Connecticut

CHAS Lab #: 9006167

Polychlorinated Biphenyls (PCB's) Blank

By EPA Method 3540/8080 (ref. c)

Extraction Date: 06/21/90
Analysis Date: 06/23/90

Parameter	**MDL***	**Conc.***
PCB - Aroclor 1016	0.1	ND
PCB - Aroclor 1221	0.1	ND
PCB - Aroclor 1232	0.1	ND
PCB - Aroclor 1242	0.1	ND
PCB - Aroclor 1248	0.1	ND
PCB - Aroclor 1254	0.1	ND
PCB - Aroclor 1260	0.1	ND

Note: ND = Below minimum detectable level (MDL)
* = mg/kg

QA/QC

Surrogate Recoveries: Hexabromobenzene 98.2%

Client: Clean Harbors of Connecticut

CHAS Lab #: 9006167

BLANK ANALYSIS

Parameter	MDL*	Result*	Extraction Date	Analysis Date	Method Number and Reference
Petroleum Hydrocarbon Oil & Grease by IR	10	ND	06/21/90	06/22/90	503D/503E,B (b)

Notes: ND = Below minimum detectable level (MDL)
* = mg/kg
Soil/solid samples based on sample dry weight.

Client: Clean Harbors of Connecticut

CHAS Lab #: 9006167

BLANK ANALYSIS

METALS

Parameter	MDL*	Result*	Digestion Date	Analysis Date	Method Number and Reference
Arsenic - EP Toxicity (1)	0.2	ND	06/25/90	06/28/90	3010/6010(c)
Barium - EP Toxicity (1)	0.05	ND	06/25/90	06/28/90	3010/6010(c)
Cadmium - EP Toxicity (1)	0.005	ND	06/25/90	06/28/90	3010/6010(c)
Chromium - EP Toxicity (1)	0.01	ND	06/25/90	06/28/90	3010/6010(c)
Lead - EP Toxicity (1)	0.1	ND	06/25/90	06/28/90	3010/6010(c)
Mercury - EP Toxicity (1)	0.0002	ND	06/25/90	06/26/90	7470(c)
Selenium - EP Toxicity (1)	0.2	ND	06/25/90	06/28/90	3010/6010(c)
Silver - EP Toxicity (1)	0.02	ND	06/25/90	06/29/90	3005/6010(c)

Sample extracted on 06/21/90

Notes: ND = Below minimum detectable level (MDL)
* = mg/l
Soil/solid samples based on sample dry weight.

(1) Sample was evaluated by EPA Method 1310, EP Toxicity, as described in reference (c).

CT

CleanHarbors

Clean Harbors Analytical, 325 Wood Rd., Braintree, MA. 02184 | CHAIN OF CUSTODY RECORD | Sample Custodian - (617) 849-6070 | Page 1 of 1

Client: ~~U.S. DEPT of ARMY~~ Project Name: WATERBURY USARC Project/P.O. #: C-3967 Date: 6/15/90

Report To: CHI - CT Address: 60 Peter Court, New Britain, CT Phone #: 203-224-7600

Invoice To: CHI - CT Address: 60 Peter Court, New Britain, CT 06051

Date Samples Collected: 6/15/90 by: D. GWORK Date Samples Received: 6/20/90

Sample I.D.	Sampling Information: Date	Time	Station Location	Sample Type	TPH	8240	8RCRA & TOX Metals	PCBs (Bres)						# of con.	Comments (Special instructions, cautions, etc.)	CHAS Sample # 9006167
24581112	6/15	2pm	10K Tank	Soil	✓	✓	✓	✓						1	Composite	01A, m
13679 10	6/15	2pm	10K Tank	Soil	✓	✓	✓	✓						1	Composite	02A, m

6/20 yf

0/12420

VOA Vial										
Glass Bottle	2									
Plastic Bot.										
Pres.										
Volume										

Relinquished by: D. Gwork
Date: 6/15/90 Time: 3 pm

Received by: Mail
Date: Time:

Relinquished by: Mail
Date: 6/20/90 Time: 12:30pm

Received by: [illegible]
Date: 6/20/90 Time: 12:30pm

Preservation Key: A - Acidified with _____
B - Filtered, C - Sample chilled, D - NaOH,
E - NaThiosulfate, F - Other

REMARKS: (Sample storage, nonstandard sample bottles, special instructions)

NORMAL 2 week Turn
FAX RESULTS
WHEN COMPLETE

Standard laboratory turnaround time is 2 weeks from date of receipt. Accelerated turnaround may be assessed a surcharge. Accelerated turnaround requested: _____
Confirmed by: _____ Surcharge: _____

Location of samples: R3, 4C

Turnaround: 24 Hrs 48 Hrs 1 Week 2 Weeks Other: _____

CleanHarbors

SAMPLE RECEIPT CHECK LIST

Client: CHCT

Project Name/No.: Wolcott CT K-3967 CHAS Lab No.: 9906167

	YES	NO	N/A
1. Were samples shipped? If Yes, please retain bill of lading.	✓		
2. Was Chain-Of-Custody present upon receipt of samples?	✓		
Notes:			
3. Was Chain-Of-Custody complete? If No. When was client contacted? _____ (date)	✓		
Notes:			
5. Were samples received chilled?		✓	
Notes:			
6. Were any samples received broken/leaking (improperly sealed)?	✓	✓	
Cracked. Put into another jar in Lab.			
7. Were samples properly preserved?			✓
Notes:			
8. Were Chain-Of-Custody evidence seal/tapes on samples?			✓
Notes:			
9. Any discrepancies between sample labels and Chain-Of-Custody records?		✓	
Notes:			
10. Were samples received within holding times?	✓		
Notes:			

Additional Comments:

Samples inspected and logged in by [signature] Date: 6/20/98

CleanHarbors

Method References

(a) "Methods for Chemical Analysis of Water and Wastes," Publication EPA-600/4-79-020, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, 1979, revised March 1983.

(b) "Standard Methods for the Examination of Water and Wastewater," 16th ed., American public Health Association, American Water Works Association, Water Pollution Control Federation, Washington, D.C., 1985.

(c) "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods," 2nd ed., U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Washington, D.C., July 1982.

(d) "The Determination of Polychlorinated Biphenyls in Transformer Fluid and Waste Oils," Publication EPA-600/4-81-045, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, 1981.

(e) "EPA-CLP Organic Analyses of Low and Medium Hazardous Waste Sample (Water and Soil) Procedures Revision," U.S. Environmental Protection Agency, July 1985.

(f) "Test Procedures for Analyses of Organic Pollutants," Code of Federal Regulations, Appendix A, Part 136, July 1, 1985.

(g) "Measurement of Purgeable Organic Compounds in Drinking Water by Gas Chromatography/Mass Spectrometry," Method 524, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati.

(h) "Prescribed Procedures for Measurement of Radioactivity in Drinking Water," Publication EPA-600/4-80-032, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, August 1980.

(i) "Clean Harbors Radiological Environmental Analytical Procedures," Clean Harbors Analytical Services, Braintree, MA, October 1985.

(j) "Methods for Chlorinated Phenoxy Acid Herbicides in Industrial Effluents," MDQARL, Cincinnati, November 23, 1973.

(k) "Annual Book of Standards," Section 11: Water and Environmental Technology, Vols. 11.01-11.04, American Society for Testing Materials, Philadelphia, 1983, 1984 & 1985.

(l) "Methods for Benzidine, Chlorinated Organic Compounds, Pentachlorophenol and Pesticides in Water and Wastewater," U.S. Environmental Protection Agency, September 1978.

(m) "Methods for Organochlorine Pesticides in Industrial Effluents," MDQARL, Environmental Protection Agency, Cincinnati, November 28, 1973.

(n) "Methods for Determination of Inorganic Substances in Water and Fluvial Sediments," Techniques of Water-Resources Investigation of the U.S. Geological Survey, Book 5, Chapter A-1, U.S. Department of the Interior, 1979.

(o) "Measurement of Trihalomethanes in Drinking Water by Gas Chromatography/Mass Spectrometry and Selected Ion Monitoring," Method 501.3, U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati.

(p) "The Analysis of Trihalomethanes in Finished Waters by the Purge and Trap Method," U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati.

(q) "The Analysis of Trihalomethanes in Drinking Water by Liquid/Liquid Extraction," U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati.

(r) "Official Methods of Analysis," Association of Official Analytical Chemists, 14th ed., 1984.

(s) "Hach Handbook of Water Analysis," Hach Chemical Company, Loveland, CO, 1979.

(t) "H.M. Prichard and T.F. Gesell, "Rapid Measurement of Rn-222 Concentrations in Water with a Commercial Liquid Scintillation Counter, "Health Physics, Vol. 33, 1977, pp. 577-581.

(u) "Petroleum Products and Lubricants (I): D56-D1660," Annual Book of ASTM Standards, Volume 5.01, American Society for Testing and Materials, Philadelphia, 1985.

(v) "Petroleum Products and Lubricants (III): D2981-Latest; Catalysts," Annual Book of ASTM Standards, Volume 5.03, American Society for Testing and Materials, Philadelphia, 1985.

SENT BY:

DEP

DIVISION OF HAZARDOUS WASTE
One Winter Street
Boston, Massachusetts 02108

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator US EPA ID No. C R W — Manifest Document No. 050064

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
United States Army Reserve
Lydia Street Extension, Waterbury, CT06701

4. Generator's Phone ( )

5. Transporter 1 Company Name: Clean Harbors of Kingston, Inc. — 6. US EPA ID Number: M A D 0 3 9 3 2 2 2 5 0

7. Transporter 2 Company Name — 8. US EPA ID Number

9. Designated Facility Name and Site Address
Clean Harbors of Braintree, Inc.
385 Quincy Avenue
Braintree, MA 02184
10. US EPA ID Number: M A D 0 5 3 4 5 2 6 3 7

A. State Manifest Document Number: MA-F005064
B. State Gen. ID: 25sumc
C. State Trans. ID: MA6712352
D. Transporter's Phone (617) 585-5111
E. State Trans. ID:
F. Transporter's Phone ( )
G. State Facility's ID: Not Required
H. Facility's Phone (617) 849-1807

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. waste oil, combustible liquid, ~~none, none, NA~~ NA 1270	004	DM	00220	G	MA01
b. non D.O.T. regulated oily solids none, none, MA01	001	DM	00100	P	MA01
c.					
d.					

J. Additional Descriptions for Materials Listed Above (Include physical state and hazard code)
a. waste oil
b. oily solids

K. Handling Codes for Wastes Listed Above
a. b. c. d.

Special Handling Instructions and Additional Information
a. R34184 Spill Call
b. R34186 Tank
As of March 30,1990, the state of Connecticut no longer issues temporary EPA ID #'s to small quantity generators

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

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

Printed/Typed Name: [illegible] — Signature: [illegible] — Date: Month Day Year

16. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jack Thompson — Signature: [illegible] — Date: Month Day Year

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

18. Discrepancy Indication Space

19. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 18.
Printed/Typed Name: John Murray — Signature: [illegible] — Date: Month Day Year 10 30 90

Form Approved. OMB No. 2050-0039, Expires 9-30-91
EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

COPY 5 - TRANSPORTER 1 RETAINS

CT010
PAUL J. SUTCOVOY USARC
Waterbury, Connecticut

FLOOR AND STORM DRAIN INVENTORY

AND

NATURAL RESOURCES INVENTORY

Prepared for:

94th Department of the Army
Regional Support Command

Prepared by:

U.S. Army Corps of Engineers
New England Division
Waltham, MA 02254-9149

With Technical Assistance from:

ENSR
Acton, MA 01720

M950217CT010

June, 1996

DOC NO. 9000-025-100
9000-026-100

FILE NAME EXPLANATION FOR FLOOR AND STORM DRAIN, AND NATURAL RESOURCES REPORTS

(EXAMPLE FOR MA009 – BURKE CENTER – FORT DEVENS – MASSACHUSETTS)

INSTRUCTIONS FOR ACCESSING FILES:

ALL NATURAL RESOURCES FILES ARE ACCESSED THROUGH LOTUS 1–2–3 RELEASE 2.4 WITH WYSIWYG.
THE FLOOR AND STORM DRAIN FILES ARE ACCESSED THROUGH LOTUS 1–2–3 RELEASE 5.

THE FIRST FIVE CHARACTERS (MA009) ARE THE FACILITY ID # FOR NATURAL RESOURCES AND FLOOR AND STORM DRAIN REPORTS.

FOR NATURAL RESOURCES:

THE FOLLOWING TWO LETTERS (NR) INDICATE THAT THE TABLE IS A NATURAL RESOURCES TABLE
THE LAST LETTER OR NUMBER INDICATES THE INDIVIDUAL TABLE (5 CORRESPONDS TO TABLE A5 – BIRDS).

GENERAL

FILE NAME	DESCRIPTION
MA009E	EXPLANATION OF FILE NAMES AND ACCESS INFORMATION

A. FLOOR AND STORM DRAIN REPORT

FILE NAME	DESCRIPTION
MA009	FLOOR AND STORM DRAIN SURVEY TABLES AND COMMENTS

B. NATURAL RESOURCES TABLES

FILE NAME	DESCRIPTION
MA009NRC	TABLE OF CONTENTS
MA009NRM	DATA COLLECTION AND REPORTING ISSUES
MA009NRS	MASTER SUMMARY TABLE
MA009NR1	TABLE A1 – WILDLIFE AND VEGETATION OBSERVED AND EXPECTED
MA009NR2	TABLE A2 – PROTECTED SPECIES – VEGETATION AND WILDLIFE
MA009NR3	TABLE A3 – PROTECTED PLANTS
MA009NR4	TABLE A4 – AMPHIBIANS AND REPTILES
MA009NR5	TABLE A5 – BIRDS
MA009NR6	TABLE A6 – MAMMALS
MA009NRF	REFERENCES

NOTE: THE STATE AND FEDERAL PROTECTED SPECIES TABLES AND OTHER DATA ARE NOT ON DISC FILES – THE ONLY COPIES ARE THE ORIGINALS INCLUDED WITH THE REPORT.

NOTE: COMPUTER FILE NAMES ARE AT THE BOTTOM OF EACH TABLE ***EXAMPLE: MA009NRC – TABLE OF CONTENTS***

US ARMY RESERVE CENTER - DRAIN SURVEY
SUMMARY and GENERAL COMMENTS

Facility ID #: CT010 Center Name: Paul J. Sutcovoy USARC

Address: Lydia Street Extension City: Waterbury State: CT

Site Point of Contact: Mr. Roy Given Date of Survey: 3-4 May 1994

1. Regulatory Compliance Violations:
   No regulatory violations were observed during the site visit.

2. Potential Regulatory Compliance Violations:
   No potential regulatory violations were observed during the site visit.

3. Recommended Actions to Improve Environmental Practices:
   The facility had an oil spill from a valve in the boiler room approximately three weeks before our site visit. The spill had been cleaned up. The site manager was under the impression that a state representative said that the floor drains should be connected to the storm sewer system as opposed to the sanitary sewer system. This is not correct.

4. Potential Problems:
   None.

5. Uncompleted Inventory Items:
   a. Floor Drain Number 9 (FD-9) in the work pit of the OMS building was reported to be sealed. Since the pit was filled with barbed wire this could not be verified. The OMS is used for storage and office space.
   b. The USARC storm drains entered the municipal storm drain system via an easement though a neighboring property. The ultimate outfall of the municipal storm drain system was not shown on plans nor was it obvious in the field.

6. Other Comments:
   a. Storm Drain Number 4 (SD-4) was not shown on the original plans, but was observed in the field. The outflow of SD-4 goes to SD-5.
   b. The storm drains labeled as "abandoned" were not visible in the field.

7. Data Gathering Parameters and Limitations

This report contains the results of a survey conducted under a series of agreed constraints and limitations described in Section 7.1 below. In addition, site-specific factors may have affected the quality or completeness of data gathered and these are described in Section 7.2 below.

Section 7.1
Surveys were conducted using plans obtained by the Corps of Engineers New England Division from the 94th Regional Support Command drawing vault at Fort Devens, MA. The best available site and interior plans on which the surveys were based, in many instances, did not contain:
a. up-to-date information;

b. a complete property boundary;
c. storm water drainage data; and/or
d. plumbing information.

In some cases, no site and/or interior plans were provided and information was hand-sketched by the survey team.

Data collection was limited to the information that could be gathered in the assigned time frame (ranging from one to two days). No supplementary data collection was performed.

a. Outfalls to municipal sanitary or storm sewer could not be determined because either manways were located in the middle of streets and could not be safely accessed or a visit to the municipal authorities, which could not be performed within the assigned time frame, would be required to confirm connections.

b. Information about rooms and/or areas which were not made accessible to the survey team was provided by the facility manager or other facility personnel.

c. Drains shown on field maps are shown in their approximate location. Locations were not scaled off.

d. Drainage associated with purely sanitary purposes such as sinks, water bubblers, toilets, or bermed shower drains was not inventoried. Shower drains which were not located in a bermed area and thus could potentially collect drainage other than sanitary were inventoried as floor drains.

e. Slop sinks which were located on the floor in the janitors closets and could potentially collect drainage other than sanitary were inventoried. Slop sinks attached to the wall were not inventoried.

f. Military organizational maintenance (-20 level and above) facilities, within EPA Region I, are considered as industrial facilities and, therefore, require an NPDES storm water permit. Because of this requirement, roof drains were inventoried for buildings in which greater than organizational maintenance is performed because these buildings would be considered industrial facilities.

g. Surrounding property was classified by usage such as residential, industrial, commercial, or woodland according to the visual observations of the survey team. No additional research was performed to confirm this property classification.

h. The status of drains and pretreatment systems was determined by observation only.

i. Surface drainage directions were estimated based on observation of land contours. Drainage directions were not determined by observing water flow.

j. Water meter pits and non-PCB transformers were not inventoried and thus are not depicted on the field map.

k. Features on the map which did not directly affect the drainage survey were considered to be outside the scope of the field survey and thus were not updated to reflect current status.

l. Vehicles parked on the site or equipment stored on site or inside the building were not moved to survey for drains.

m. OMS work pits were inventoried as containing a floor drain based on information from facility personnel. The presence of a floor drain in the work pit could not be confirmed by visual observation because the work pits were either cemented in, covered by equipment, filled with water, or the sump of the work pit was covered by a grate which could not be removed.

Section 7.2

a. Complete property boundary was not shown on available plans. Facility manager reported that the property boundary was essentially the fence line.

b. Facility manager reported that no maintenance is performed in the OMS Building.

c. Basement supply room and Arms Vault were not accessible to the survey team.

US ARMY RESERVE CENTER - DRAIN SURVEY

FACILITY ID#: CT010 CENTER NAME: Paul J. Sutcovoy USARC. ADDRESS: Lydia Street Ext.

CITY: Waterbury COUNTY: New Haven STATE: CT SURVEYED BY: W. Kidd, M. Healey - ENSR

COMMAND: 76th, 94th SITE CONTACT(S):(Name/Rank/Title) Roy Given / Civilian DATE OF SURVEY: 3 - 4 MAY 94

WEATHER (Day 1 Sunny, mid 70's. Day 2 Cloudy, mid 60's.)

REFERENCE SITE PLAN - TITLE: Army Reserve Training Center-2 Unit-Utility Plan. Dwg. No. 29-06-01

DRAWING DATE: DEC, 1956 CONTRACTOR: Pedersen & Tilney - Archt's SHEET NUMBER: 3 of 8 OTHER: Contract No. DA-19-016-ENG-5079

INDEX ON SITE PLAN	ROOM NUMBER/ LOCATION	DRAIN		OUTFALL		TREATMENT		POTENTIAL CONTAMINANTS	REGULATORY COMPLIANCE STATUS
		STATUS	VERIFIED	TYPE	VERIFIED	TYPE	STATUS		
FLOOR DRAINS									
FD - 1	Basement, Womens Room, east end.	CIU	OBS	SAN (1)	REP/NOP	NONE		JAN	IN
FD - 2	Basement, center of Womens Room.	CIU	OBS	SAN (1)	REP/NOP	NONE		JAN	IN
FD - 3	Basement, west end of Mens Room.	CIU	OBS	SAN (1)	REP/NOP	NONE		JAN	IN
FD - 4	Basement, center of Mens Room.	CIU	OBS	SAN (1)	REP/NOP	NONE		JAN	IN
FD - 5	South end of boiler room.	CIU	OBS	SAN (1)	REP/NOP	NONE		FLO	IN
FD - 6	West end of boiler room.	CIU	OBS	SAN (1)	REP/NOP	NONE		FLO	IN
FD - 7	Outside, east of boiler room.	CIU	OBS	SAN (1)	REP/NOP	NONE		NONE	IN
FD - 8	Outside, north of USARC.	CIU	OBS	SAN (1)	REP/NOP	NONE		NONE	IN
FD - 9	Work pit of OMS building.	REM	REP (2)						IN
STORM DRAINS									
SD - 1	North of OMS building.	CIU	OBS	STM (3)	REP/NOP	NONE		POL, FER	IN
SD - 2	North of USARC building.	CIU	OBS	STM (3)	REP/NOP	NONE		POL	IN
SD - 3	East of USARC building.	CIU	OBS	STM (3)	REP/NOP	NONE		POL, FER	IN
SD - 4	South of USARC building.	CIU	OBS	STM (3)	REP/NOP	NONE		POL	IN
SD - 5	East of drill hall.	CIU	OBS	STM (3)	REP/NOP	NONE		POL, FER	IN
SD - 6	East of SD - 5.	CIU	OBS	STM (3)	REP/NOP	NONE		POL, FER	IN
FUNNEL DRAINS									
F - 1	Boiler room.	CIU	OBS	SAN	REP/NOP	NONE		NONE (4)	IN
PRE - TREATMENT SYSTEMS									
GRT - 1	Kitchen.	CIU	OBS	SAN	REP/NOP	NONE		JAN (5)	IN

COMMENTS: (1) Site personnel reports floor drainage to enter the municipal sanitary sewer system. (2) FD-9 was reported by USARC personnel to be sealed. Pit was filled with barbed wire. (3) Site personnel reports site storm drainage to exit the east side of the USARC and enter the municipal storm drainage system.
(4) The funnel drain collects exclusively from blow down, it does not collect any floor drainage. (5) GRT-1 is is not associated with any floor drains, it is a pretreatment system for the kitchen sinks.
Explanations of report codes follow inventory sheets.

US ARMY RESERVE CENTER - DRAIN SURVEY
REPORTING CODE EXPLANATIONS

DRAIN.

TYPE.

CW - A can wash is a hard surfaced area with a drain, outside, usually next to a kitchen used for washing garbage cans.
F - A funnel drain collects drainage through a funnel and does not collect any floor drainage directly. These are often found in the boiler rooms.
FD - A floor drain is a grated drain collecting drainage from the floor.
GP - A grease platform is an elevated structure onto which vehicles are driven for maintenance. A drain is associated with this structure.
OUT An outlet is the defined point where the effluent of a pipe discharges.
RD - A roof drain collects drainage from a roof usually to discharge onto the ground surface or into the storm drainage system.
SD - A storm drain collects outdoor surface drainage usually in the form of a catch basin or drop inlet.
UIC - An underground injection chamber collects drainage to discharge directly into the ground.
WR - A wash rack is a hard surfaced area with a drain designated for washing vehicles.

STATUS.

BLK - The drain is blocked or filled with debris and does not operate properly.
CIU - The drain is currently in use and is operating properly.
OTH - The status of the drain is unique and will be further described with a numbered note.
POT - The drain does not currently operate properly however, it is potentially operational without an extensive amount of work done.
REM - The drain has been purposely removed from service.

VERIFIED.

OBS - The issue has been observed by ENSR personnel during the site visit.
NOP - The issue has not been observed by ENSR personnel from the available plans.
PNO - The issue has not been observed by ENSR personnel during the site visit but has been observed from the available plans.
REP - The issue has been confirmed by a verbal report from the site personnel.

OUTFALL.

TYPE.

GRW - The outfall discharges into the groundwater on site.
LCF - The outfall discharges into a leachfield on site.
SAN - The outfall discharges into a local municipal sanitary system.
STM - The outfall discharges into a local municipal storm drainage system.
UNK - The discharge location is unknown.
WTF - The outfall discharges to a wetlands area off of the site property.
WTN - The outfall discharges to a wetlands area on the site property.
WWTP - The outfall discharges to a waste water treatment plant other than municipal.
DRY - The outfall discharges to a drywell on site.
INF - The outfall discharges to an intermittent stream off of the site property.
INN - The outfall discharges to an intermittent stream on the site property.
SRF - The outfall discharges to a stream or a river off of the site property.
SRN - The outfall discharges to a stream or a river on the site property.
SWF - The outfall discharges to standing water off of the site property.
SWN - The outfall discharges to standing water on the site property.

VERIFIED.

OBS - The issue has been observed by ENSR personnel during the site visit.
NOP - The issue has not been observed by ENSR personnel from the available plans.
PNO The issue has not been observed by ENSR personnel during the site visit but has been observed from the available plans.
REP - The issue has been confirmed by a verbal report from the site personnel.

US ARMY RESERVE CENTER - DRAIN SURVEY
REPORTING CODE EXPLANATIONS

TREATMENT.

TYPE.

ANS - An acid neutralizing sump is a treatment system usually associated with drainage from a battery storage area.
DET - A detention basin is a treatment system to separate sediment from storm drainage.
GRT - A grease trap is a treatment system used to separate grease from the kitchen drainage.
OWS - An oil water separator is a treatment system used to separate oil and other LNAPL materials from drainage.
RT - A running trap is a treatment system used to prevent back flow into drainage pipes.
UNK - It is unknown if the drainage has a treatment system.

STATUS.

CIU - The treatment system is operating but currently in use and is operational.
MAT - The treatment system does not function properly and needs maintenance.
NOT - The treatment system does not operate.
OCC - The treatment system operates occasionally.

POTENTIAL CONTAMINANTS

ANT - Anti-freeze.
BAT - Battery acid.
CBR - Chemical, biological, or radioactive agents.
DEG - Degreasing solvent (product).
DES - Diesel fuel.
FER - Lawn fertilizer.
FLO - Fuel oil.
GAS - Gasoline.
HAZ - Hazardous wastes.
JAN - Janitorial supplies.
OIL - Oil (product).
OTH - The potential contaminant is unique and will be further described with a numbered note.
POL - Any combination of petroleum, oil and lubricants.
UNK - it is unknown if there are any potential contaminants.
WEP - Potential contaminants may occur due to weapons cleaning in the area.
WOL - Waste oil.

REGULATORY COMPLIANCE.

CND - The status of compliance can not be determined based on available information.
IN - The facility is in compliance, based on available information.
OUT - The facility definitely violates regulatory compliance.
POUT - The facility could potentially be out of compliance.

US ARMY RESERVE CENTERS
NATURAL RESOURCES SURVEY TABLES

FACILITY ID#: CT010
CENTER NAME: Waterbury, Connecticut – Paul J. Sutcovoy USARC

TABLE OF CONTENTS

FILE NAME:

CT010NRM **DATA COLLECTION AND REPORTING ISSUES**

CT010NRS **SUMMARY TABLE** FOR ALL NATURAL RESOURCES

CT010NR1 **TABLE A1**-WILDLIFE AND VEGETATION SPECIES OBSERVED AND EXPECTED TO OCCUR ON THE USARC(EXPECTED BIRDS ARE ON TABLE A5).

CT010NR2 **TABLE A2**-FEDERAL AND STATE PROTECTED SPECIES POTENTIALLY OCCURRING ON THE USARC BASED ON DATA PROVIDED BY THE U.S.FISH AND WILDLIFE SERVICE(USFWS) AND STATE NATURAL HERITAGE PROGRAMS(NATURAL DIVERSITY DATA BASE) OR WILDLIFE AGENCIES.

CT010NR3 **TABLE A3**-STATE AND FEDERAL PROTECTED PLANT SPECIES POTENTIALLY OCCURRING ON THE USARC.

CT010NR4 **TABLE A4**- AMPHIBIANS AND REPTILES WHOSE RANGES INCLUDE THE USARC.

CT010NR5 **TABLE A5**- BREEDING BIRDS WHOSE RANGES INCLUDE THE USARC, INCLUDING POTENTIAL NESTING SPECIES.

CT010NR6 **TABLE A6**- MAMMALS WHOSE RANGES INCLUDE THE USARC.

CT010NRF **REFERENCES**

LETTER FROM THE STATE NATURAL HERITAGE PROGRAMS, INCLUDING RECORDS OF PROTECTED SPECIES ON OR NEAR THE USARC. INCLUDED IS A CURRENT(AS OF MARCH 1, 1994) LIST OF STATE PROTECTED PLANTS, INVERTEBRATES, AMPHIBIANS, REPTILES, MAMMALS, AND BIRDS.

LETTER FROM THE USFWS, INCLUDING A LIST OF PROTECTED PLANTS, INVERTEBRATES, AMPHIBIANS, REPTILES, MAMMALS, AND BIRDS THAT COULD POTENTIALLY OCCUR ON OR NEAR THE USARC.

DATA COLLECTION AND REPORTING ISSUES

US ARMY RESERVE CENTER
NATURAL RESOURCE INVENTORY

US ARMY RESERVE CENTER – NATURAL RESOURCE INVENTORY
FACILITY ID#: CT010
CENTER NAME: Waterbury, Connecticut – Paul J. Sutcowy USARC

A.CONTRACT SCOPE–OF–WORK

– Review federal regulations governing preparation of Natural Resource Management Plans for USAR sites.
– Conduct a site visit and inventory existing natural resources based on review of existing on–site reports and a general site walkover. A formal wetland delineation is not a part of this scope.
– Provide to the 94th RSC two copies of the two (2) page draft spreadsheet and map for review, and two copies of the final spreadsheet and map. The final spreadsheet will also be provided on computer disk.
– Delineate vegetative habitats and land uses on the site map provided by the 94th RSC, in pencil.
– Attend three (3) in–progress review meetings in Waltham or at Ft. Devens.
– The project will be completed in approximately 12 months from award date, which was 29 September, 1993.

B. GENERAL DATA COLLECTION AND REPORTING ISSUES THAT ARE COMMON TO ALL CENTERS

– The site inventory was limited to a one or two day visit.
– The inventory could not be conducted during the optimum season at each Center for the following reasons:

1) Waiting to initiate inventories until the spring (mid–April) would not have permitted completion of surveys at all 43 Centers, provide an adequate review period for the 94th RSC, and allow ENSR to complete the final reports by the delivery date of 30 October 1994.

2) A one or two day survey would not have provided a complete set of natural resource data even if it had been conducted in the spring. For example, amphibian surveys would need to be conducted in April and May, while breeding bird surveys should be conducted in early June.

3) Similarly, surveys for protected plants would need to be conducted over a two to four month period, based on the flowering season for each protected species.

– Access to the Center early in the morning (bird studies) and at night (amphibian surveys) were generally impractical due to on–site military personnel availability.

It should be noted that representative breeding bird data were collected at only a few of the Centers.

– The vegetative mapping and land use delineations were plotted on site plans provided by CENED. At some Centers, accurate or up–to–date maps were not available. For a number of Centers, the site plans provided did not include the entire property.
– Limited information was collected for adjacent properties and habitats.
– Development of Natural Resource Management Plans were not within the scope of this project.
– No attempt was made to identify and map every plant at each Center. If several individuals of the same species occurred on a Center, the average height was indicated on the summary legend on the facility base map.

C. CENTER – SPECIFIC DATA COLLECTION ISSUES

Note : Some site specific data, such as weather, survey dates, contacts, etc. are included on the Summary Table for each Center.

1) The inventory was conducted on 4 May 1994, precluding surveys for breeding birds.

2) The Facility Base Map does not include the entire property to the west–southwest. A new base map should be developed.

FACILITY ID#: CT010 CENTER NAME: Waterbury – Paul J. Sutcovoy USARC ADDRESS: Lydia Street Extension

CITY: Waterbury COUNTY: New Haven STATE: CT SURVEYED BY: Jim Duncan – ENSR

COMMAND: 76th, 94th SITE CONTACT(S):(Name/Rank/Title) Mr. Roy Given DATE OF SURVEY: 05 MAY 94

WEATHER: (Day 1 65 deg F ; clear Day 2 NA

REFERENCE SITE PLAN – TITLE: United States Army Reserve – Army Reserve Training Center -- 2 Unit. Waterbury, Conn. Site Plan & Index Dwg. No. 29–06–01

DRAWING DATE: DEC.1956 CONTRACTOR: Pedersen & Tilney, Architects New Haven, Conn. SHEET NUMBER: 1 of 6 OTHER: Contract No. DA–19–016–ENG 5079

Scale: 1"=20'

A. FACILITIES/HABITATS	IMPROVED GROUNDS	SEMI-IMPROVED GROUNDS	UNIMPROVED GROUNDS	COMMENTS
Buildings and Paved Areas (ac)	1.93 acres	\	\	All parking areas paved.
Grassed Areas (ac)	\	1.62 acres	\	Extensive lawn and landscaping, well maintained. Grass/gravel lot to north of Center.
Wooded Areas (ac)	\	\	3.75 acres	Several acres of successional vegetation on Center; large patch of greenbriar.
Water (ac)	\	\	\	\
Total (ac) (7.3 acres)	1.93 acres	1.62 acres	3.75 acres	

B. Human Uses	COMMENTS
Scenic and Natural Areas	None on Center.
Aesthetic Values	None observed.
Recreational Areas	Yes. Picnic table.
Public Use	No.
Millitary Use Only	Yes.

C. MANAGEMENT PLANS	None identified.

C.1 TIMBER Mgmt. Prog.	None identified.
Commercial Forest (ac)	Approximately 5 trees of commercial value on Center.

C.2 Wildlife Mgmt. Prog.	None identified.
Hunting	None identified.
Fishing	None identified.

C.3 Programs With State or Federal Agencies	None identified.

C.4 Grounds Maintenance	
Landscaping	Yes. Extensive lawn and landscaping, well maintained.
Prescribed Burning	Not used.
Weed Control	Contracted. Primarily lawn care and mechanical clearing on both sides of fence.
Agricultural Activity	None observed.
Pest Control	None indicated. Tent caterpillars abundant in overgrown areas outside fence, but on Center property.

FACILITY ID#: CT010 CENTER NAME: Waterbury – Paul J. Sulcovoy USARC ADDRESS: Lydia Street Extension

CITY: Waterbury COUNTY: New Haven STATE: CT SURVEYED BY: Jim Duncan – ENSR

COMMAND: 76th, 94th SITE CONTACT(S):(Name/Rank/Title) Mr. Roy Given DATE OF SURVEY: 05 MAY 94

D. NATURAL RESOURCES

D.1 Surface Water Bodies	Pond/Impoundment	Lake	River	Brook	Offsite Discharge
General Occurrence	\	\	\	\	Municipal
Acres (est.)	\	\	\	\	\

D.2 Wetlands	Riverine	Lacustrine	Palustrine	Estuarine	Marine
General Occurrence	\	\	\	\	\
Sub–Type Species (1)	\	\	\	\	\
Floodplains/Riparian Veg.	\	\	\	\	\
Acres (est.)	\	\	\	\	\

D.3 Upland Vegetation	Trees	Shrubs	Grasses	Forbs	
General Occurrence	Yes	Yes	Yes	Yes	
State Protected Species	NONE IDENTIFIED IN THE CONNECTICUT NATURAL DIVERSITY DATA BASE (REFER TO TABLES A2 AND A3. SEE ATTACHED LETTER).				
Federally Protected Species	NONE IDENTIFIED BY U.S. FISH AND WILDLIFE SERVICE (REFER TO TABLES A2 AND A3. SEE ATTACHED LETTER).				
Commercially Valuable	Very few.	\	\	\	

D.4 Invertebates					
State Protected Species	NONE IDENTIFIED IN THE CONNECTICUT NATURAL DIVERSITY DATA BASE (REFER TO TABLE A2. SEE ATTACHED LETTER).				
Federally Protected Species	NONE IDENTIFIED BY U.S. FISH AND WILDLIFE SERVICE (REFER TO TABLE A2. SEE ATTACHED LETTER).				

D.5 Fish	Marine	Estuarine	Freshwater					
			Marsh	Pond	Lake	Brook	River	Impoundment
General Occurrence	\	\	\	\	\	\	\	\
State Protected Species	NONE IDENTIFIED IN THE CONNECTICUT NATURAL DIVERSITY DATA BASE (REFER TO TABLE A2. SEE ATTACHED LETTER).							
Federally Protected Species	NONE IDENTIFIED BY U.S. FISH AND WILDLIFE SERVICE (REFER TO TABLE A2. SEE ATTACHED LETTER).							
Sport Fishing	\	\	\	\	\	\	\	\
Commercial Use	\	\	\	\	\	\	\	\

FACILITY ID#: CT010 CENTER NAME: Waterbury – Paul J. Sutcovoy USARC ADDRESS: Lydia Street Extension

CITY: Waterbury COUNTY: New Haven STATE: CT SURVEYED BY: Jim Duncan – ENSR

COMMAND: 76th, 94th SITE CONTACT(S):(Name/Rank/Title) Mr. Roy Given DATE OF SURVEY: 05 MAY 94

D.6 Reptiles and Amphibians	Salamanders	Frogs	Toads	Turtles	Lizards	Snakes
General Occurrence	SEE TABLE A1	\	SEE TABLE A1	\	Possible	SEE TABLE A1
State Protected Species	NONE IDENTIFIED IN THE CONNECTICUT NATURAL DIVERSITY DATA BASE (REFER TO TABLE A2. SEE ATTACHED LETTER).					
Federally Protected Species	NONE IDENTIFIED BY U.S. FISH AND WILDLIFE SERVICE (REFER TO TABLE A2. SEE ATTACHED LETTER).					

D.7 Birds	Waterbirds (3)	Raptors (4)	Gamebirds (5)	Flycatchers	Swallows	
General Occurrence (2)	\	H,O SEE TABLE A5	\	SEE TABLE A5	SEE TABLE A5	
Nesting	\	H,O SEE TABLE A5	\	SEE TABLE A5	SEE TABLE A5	
Migration	\	H SEE TABLE A5	\	SEE TABLE A5	SEE TABLE A5	
Wintering	\	H,O SEE TABLE A5	\	\	\	
State Protected Species	NONE IDENTIFIED IN THE CONNECTICUT NATURAL DIVERSITY DATA BASE (REFER TO TABLE A2. SEE ATTACHED LETTER).					
Federally Protected Species	NONE IDENTIFIED BY U.S. FISH AND WILDLIFE SERVICE (REFER TO TABLE A2. SEE ATTACHED LETTER).					
Waterfowl Hunting	\	\	\	\	\	
Gamebird Hunting	\	\	\	\	\	

D.7 Birds *(CONT'D)*	Woodpeckers	Wood Warblers	Thrushes	Sparrows	Other Passerines
General Occurrence (2)	SEE TABLE A5	SEE TABLE A5	SEE TABLE A5	SEE TABLE A5	SEE TABLE A5
Nesting	SEE TABLE A5	SEE TABLE A5	SEE TABLE A5	SEE TABLE A5	SEE TABLE A5
Migration	\	SEE TABLE A5	SEE TABLE A5	SEE TABLE A5	SEE TABLE A5
Wintering	SEE TABLE A5	\	\	SEE TABLE A5	SEE TABLE A5
State Protected Species	NONE IDENTIFIED IN THE CONNECTICUT NATURAL DIVERSITY DATA BASE (REFER TO TABLE A2. SEE ATTACHED LETTER).				
Federally Protected Species	NONE IDENTIFIED BY U.S. FISH AND WILDLIFE SERVICE (REFER TO TABLE A2. SEE ATTACHED LETTER).				

FACILITY ID#: CT010 CENTER NAME: Waterbury – Paul J. Sutcovoy USARC ADDRESS: Lydia Street Extension

CITY: Waterbury COUNTY: New Haven STATE: CT SURVEYED BY: Jim Duncan – ENSR

COMMAND: 76th, 94th SITE CONTACT(S):(Name/Rank/Title) Mr. Roy Given DATE OF SURVEY: 05 MAY 94

D.8 Mammals	Marsupials	Insectivores (6)	Bats	Rodents (7)	Carnivores (8)	Deer/Moose
General Occurrence	SEE TABLE A1	S,M SEE TABLE A1	SEE TABLE A1	R,C,S,M,V,JM SEE TABLE A1	R,W,S SEE TABLE A1	
State Protected Species	NONE IDENTIFIED IN THE CONNECTICUT NATURAL DIVERSITY DATA BASE (REFER TO TABLE A2. SEE ATTACHED LETTER).					
Federally Protected Species	NONE IDENTIFIED BY U.S. FISH AND WILDLIFE SERVICE (REFER TO TABLE A2. SEE ATTACHED LETTER).					
Game Species	\	\	\	RS	\	
Furbearers	SEE TABLE A1	\	\	\	R,W,S SEE TABLE A1	

D.9 Other Protected Species							
State Protected Species	NONE IDENTIFIED IN THE CONNECTICUT NATURAL DIVERSITY DATA BASE (REFER TO TABLE A2. SEE ATTACHED LETTER).						
Federally Protected Species	NONE IDENTIFIED BY U.S. FISH AND WILDLIFE SERVICE (REFER TO TABLE A2. SEE ATTACHED LETTER).						

SUMMARY AND RECOMMENDATIONS:

SUMMARY:

Deer not expected on Center because area surrounded by roads, and residential and commercial property.
Lawn and landscape species well maintained.
Some natural habitats inside fence (< 0.5 acres). Several acres of successional vegetation outside fence.
This habitat provides a good diversity of habitats for urban wildlife species.
Dense greenbriar thickets (approximately 3 feet tall) cover more than one acre of this successional habitat.

RECOMMENDATIONS:

Plant fruit–bearing shrubs and low trees along fence and in open lawn areas.
Reduce greenbriar thickets by herbicide spraying to promote growth of shrub and tree species.
Erect American kestrel/gray squirrel/screech owl nesting boxes in woodlands (4 total).
Erect chickadee/wren/nuthatch nesting boxes along fence and in woodland (16 total).

RECOMMENDATIONS ARE ONLY SUGGESTIONS AND ARE NOT MEANT TO SERVE AS A MANAGEMENT PLAN. PERMITS MAY RE REQUIRED FOR SOME OF THESE ACTIONS.

FACILITY ID#: CT010 CENTER NAME: Waterbury – Paul J. Sutcovoy USARC ADDRESS: Lydia Street Extension

CITY: Waterbury COUNTY: New Haven STATE: CT SURVEYED BY: Jim Duncan – ENSR

COMMAND: 76th, 94th SITE CONTACT(S):(Name/Rank/Title) Mr. Roy Given DATE OF SURVEY: 05 MAY 94

Legend:

"SEE TABLE" indicates that a species or species group is expected based on range and habitat requirements. Refer to the indicated table for a list of species.

\ Indicates species or species group is not expected to occur on the USARC because suitable habitat is not present.

1) Subtype

RIVERINE	LACUSTRINE	PALUSTRINE	ESTUARINE	MARINE
Tidal	Limnetic	Emergent = E	Intertidal	Subtidal
Lower perennial	Littoral	Scrub–Shrub = S/S		Intertidal
Upper perennial		Forested = F		
Intermittent		Open Water = OW		
Unknown Perennial				

2) Observed species are listed in Table A1.

3) WATERBIRDS	4) RAPTORS	5) GAMEBIRDS	6) INSECTIVORES	7) RODENTS		8) CARNIVORES
Ocean/Marine = O/M	Hawks = H	Grouse = G	Shrews = S	Rabbits = R	Rats = RS	Canids = CN
Waterfowl = W	Owls = O	Quail = Q	Moles = M	Hares = H	Voles = V	Bears = B
Herons = H	Eagles = E	Pheasant = P		Beaver = B	Jumping mice = JM	Raccoon = R
Shorebirds = S		Turkey = T		Chipmunks = C		Weasels = W
		Woodcock = W		Squirrels = S		Skunks = S
				Mice = M		Cats = CT

US ARMY RESERVE CENTER – NATURAL RESOURCES SURVEY

FACILITY ID#: CT010

CENTER NAME: Waterbury, Connecticut–Paul J. Sutcovoy USARC

SURVEYED BY: Jim Duncan ENSR

SURVEY DATE(S): 4 MAY 94

WILDLIFE SPECIES REPORTED: None.

TABLE A1

WILDLIFE AND VEGETATION SPECIES OBSERVED AND EXPECTED TO OCCUR ON THE WATERBURY, CONNECTICUT USARC (1994)

WILDLIFE SPECIES OBSERVED

BIRDS	BIRDS	BIRDS	MAMMALS	AMPHIBIANS	REPTILES
Common flicker	Northern oriole	Tufted titmouse	Gray squirrel	None	None
European starling	Killdeer	Chimney swift	Eastern cottontail		
American robin	Eastern phoebe	Common yellowthroat	Striped skunk (sign)		
Gray catbird	Hairy woodpecker	Rock dove			
Rufous–sided towhee	Gull spp.	White–throated sparrow			
Brown thrasher	Northern cardinal	Northern mockingbird			
Blue jay	Black–capped chickadee	Song sparrow			
Prairie warbler	Yellow–rumped warbler	Mourning dove			
Common crow					

WILDLIFE SPECIES EXPECTED

BIRDS	MAMMALS	MAMMALS	AMPHIBIANS	REPTILES
SEE TABLE A5 FOR A LIST OF EXPECTED BIRDS.	Virginia opossum	Southern flying squirrel	Redback salamander	Five–lined skink
	Common masked shrew	White–footed mouse		Northern brown snake
	Northern short–tailed shrew	Meadow vole		Eastern garter snake
	Hairy–tailed mole	House mouse		Northern ringneck snake
	Eastern mole	Common raccoon		Eastern worm snake
	Little brown myotis	Ermine		Northern black racer
	Big brown bat	Long–tailed weasel		Smooth green snake
	Eastern cottontail	Striped skunk		Black rat snake
	Eastern chipmunk			Eastern milk snake
	Woodchuck			Northern copperhead
	Eastern gray squirrel			

VEGETATION SPECIES OBSERVED

	NATIVE SPECIES			ORNAMENTAL SPECIES	
GRASSES/FORBS	SHRUBS	TREES	TREES	SHRUBS	TREES
Greenbriar	Rhododendron spp.	White pine	Crab apple	Wigelia ?	Chinese chestnut
Honeysuckle vine	Mountain laurel	Red oak	Gray birch	Unid. shrub	
Poison ivy	Multiflora rose	White oak	Flowering dogwood	Japanese yew	
Common dock	Sumac spp.	Red maple	Kentucky coffeetree	Showy border forsythia	
Japanese knotweed	Labrador tee ?	Cottonwood/poplar	Sassafras	Winged euonymus	
Wild grape	Red–osier dogwood	Eastern red cedar	Choke cherry	Common wintercreeper euonymus	
Virginia creeper		Black locust	Walnut spp.	Beauty bush	
		Black cherry		Spreading cotoneaster	
		Paper birch		Pacific yew	
		Eastern hemlock		Pfitzer juniper	
				Common lilac	

TABLE A2

FEDERAL AND STATE PROTECTED SPECIES POTENTIALLY OCCURRING ON THE WATERBURY, CONNECTICUT USARC (1994)

1)PLANTS	Status	Species
	SEE TABLE A3 FOR A LIST OF PROTECTED PLANT SPECIES POTENTIALLY OCCURRING ON THE CENTER.	

2)INVERTEBRATES	Status	Species
	None identified in the Natural Diversity Data Base (Natural Heritage Program)	
	"SOME OF THE 59 STATE AND FEDERAL PROTECTED INVERTEBRATE SPECIES OCCUR IN HABITATS SIMILAR TO THOSE OCCURRING ON THE USARC; A DETAILED ANALYSIS OF THEIR POTENTIAL OCCURRENCE HAS NOT BEEN MADE."	

3)AMPHIBIANS	Status	Species
		NONE

4)REPTILES	Status	Species
	ST	FIVE–LINED SKINK

5)BIRDS	Status	Species
	SC	COMMON NIGHTHAWK
	ST	HORNED LARK
	SE	YELLOW–BREASTED CHAT
	SC	SAVANNAH SPARROW

6)MAMMALS	Status	Species
		NONE

SC = STATE SPECIES OF CONCERN
ST = STATE THREATENED
SE = STATE ENDANGERED

TABLE A3
STATE AND FEDERAL PROTECTED PLANT SPECIES POTENTIALLY OCCURRING ON THE WATERBURY, CONNECTICUT USARC (1994)

STATUS	COMMON NAME	SCIENTIFIC NAME	HABITAT	FLOWERING SEASON
SE	Large–leaved sandwort	*Arenaria macrophylla*	Dry areas, moist ledges.	4/9 – 5/31
SE	White milkweed	*Asclepias variegata*	Dry hillsides.	7/1 – 7/22
SC	Sedge	*Carex hirsutella*	Wet or dry soil in woods or in open.	6/10 – 8/10
SE	Variable sedge	*Carex polymorpha*	Woods, dry sandy soil.	6/12 – 8/31
SC	Wild senna	*Cassia hebecarpa*	Thickets, fields, roadsides.	7/20 – 8/23
SE	Sickle–leaved golden aster	*Chrysopsis falcata*	Dry sandy fields.	7/4 – 10/2
SC	Dillen's tick–trefoil	*Desmodium glabellum*	Dry woods.	8/11 – 9/16
SC	Persimmon	*Diospyros virginiana*	Woods.	June.
SC	Whitlow–grass	*Draba reptans*	Fields, ledges.	4/18 – 6/2
SE	Small white snakeroot	*Eupatorium aromaticum*	Open woods.	8/8 – 9/16
SE	Longleaf bluet	*Houstonia longifolia*	Dry open woods, hillsides.	5/23 – 7/4
SC	Creeping bush–clover	*Lespedeza repens*	Open woods.	August.
SC	Yellow flax	*Linum sulcatum*	Dry roadsides.	7/19 – 9/14
SE	Green adder's–mouth	*Malaxis unifolia*	Moist or dry woods.	7/23 – 8/9
SE	Long–awn hairgrass	*Muhlenbergia capillaris*	Dry exposed ledges.	9/10 – 10/5
ST	Adder's–tongue	*Ophioglossum vulgatum*	Meadows or thickets, dry soil.	7/4 – 9/15
SC	Eastern prickly pear	*Opuntia humifusa*	Dry exposed ledges and fields.	7/5 – 7/19
SE	Nutrush	*Scleria triglomerata*	Meadows, open dry woods.	7/10 – 9/21
SE	Golden alexanders	*Zizia aptera*	Woods.	July.

RANGES FROM:
CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION 1993.

HABITATS FROM:
SEYMOUR 1993.

SE = STATE ENDANGERED
ST = STATE THREATENED
SC = STATE SPECIES OF CONCERN

TABLE A4
AMPHIBIANS AND REPTILES WHOSE RANGES INCLUDE THE WATERBURY, CONNECTICUT USARC (1994)

MARBLED SALAMANDER	*AMBYSTOMA OPACUM*
JEFFERSON SALAMANDER	*AMBYSTOMA JEFFERSONIANUM*
SILVERY SALAMANDER	*AMBYSTOMA PLATINEUM*
BLUE–SPOTTED SALAMANDER	*AMBYSTOMA LATERALE*
TREMBLAY'S SALAMANDER	*AMBYSTOMA TREMBLAYI*
SPOTTED SALAMANDER	*AMBYSTOMA MACULATUM*
RED–SPOTTED NEWT	*NOTOPHTHALMUS VIRIDESCENS VIRIDESCENS*
NORTHERN DUSKY SALAMANDER	*DESMOGNATHUS FUSCUS FUSCUS*
REDBACK SALAMANDER	*PLETHODON CINEREUS*
FOUR–TOED SALAMANDER	*HEMIDACTYLIUM SCUTATUM*
NORTHERN SPRING SALAMANDER	*GYRINOPHILUS PORPHYRITICUS PORPHYRITICUS*
NORTHERN TWO–LINED SALAMANDER	*EURYCEA BISLINEATA*
EASTERN SPADEFOOT	*SCAPHIOPUS HOLBROOKII HOLBROOKII*
EASTERN AMERICAN TOAD	*BUFO AMERICANUS AMERICANUS*
FOWLER'S TOAD	*BUFO WOODHOUSII FOWLERI*
NORTHERN SPRING PEEPER	*PSEUDACRIS CRUCIFER CRUCIFER*
GRAY TREEFROG	*HYLA VERSICOLOR*
BULLFROG	*RANA CATESBEIANA*
GREEN FROG	*RANA CLAMITANS MELANOTA*
WOOD FROG	*RANA SYLVATICA*
NORTHERN LEOPARD FROG	*RANA PIPIENS*
PICKEREL FROG	*RANA PALUSTRIS*
COMMON SNAPPING TURTLE	*CHELYDRA SERPENTINA SERPENTINA*
COMMON MUSK TURTLE	*STERNOTHERUS ODORATUS*
SPOTTED TURTLE	*CLEMMYS GUTTATA*
WOOD TURTLE	*CLEMMYS INSCULPTA*
EASTERN BOX TURTLE	*TERRAPENE CAROLINA CAROLINA*
EASTERN PAINTED TURTLE	*CHRYSEMYS PICTA PICTA*
FIVE–LINED SKINK	*EUMECES FASCIATUS*
NORTHERN WATER SNAKE	*NERODIA SIPEDON SIPEDON*
NORTHERN BROWN SNAKE	*STORERIA DEKAYI DEKAYI*
EASTERN GARTER SNAKE	*THAMNOPHIS SIRTALIS SIRTALIS*
EASTERN RIBBON SNAKE	*THAMNOPHIS SAURITUS SAURITUS*
EASTERN HOGNOSE SNAKE	*HETERODON PLATIRHINOS*
NORTHERN RINGNECK SNAKE	*DIADOPHIS PUNCTATUS EDWARDSII*
EASTERN WORM SNAKE	*CARPHOPHIS AMOENUS AMOENUS*
NORTHERN BLACK RACER	*COLUBER CONSTRICTOR CONSTRICTOR*
SMOOTH GREEN SNAKE	*OPHEODRYS VERNALIS*
BLACK RAT SNAKE	*ELAPHE OBSOLETA OBSOLETA*
EASTERN MILK SNAKE	*LAMPROPELTIS TRIANGULUM TRIANGULUM*
NORTHERN COPPERHEAD	*AGKISTRODON CONTORTRIX MOKASEN*
TIMBER RATTLESNAKE	*CROTALUS HORRIDUS*

NOTE:SILVERY AND TREMBLAY'S SALAMANDERS ARE HYBRIDS FROM CROSSES OF JEFFERSON AND BLUE–SPOTTED SALAMANDERS.

NOMENCLATURE FROM:
SOCIETY FOR THE STUDY OF AMPHIBIANS AND REPTILES 1990.

RANGES FROM:
1) KLEMENS 1993.
2) DEGRAAF AND RUDIS 1983a.
3) DEGRAAF AND RUDIS 1983b.

TABLE A5

BREEDING BIRDS WHOSE RANGES INCLUDE THE WATERBURY, CONNECTICUT USARC INCLUDING POTENTIAL NESTING SPECIES (1994)

Pied–billed grebe	*Podilymbus podiceps*
American bittern	*Botaurus lentiginosus*
Least bittern	*Ixobrychus exilis*
Great blue heron	*Ardea herodias*
Great egret	*Casmerodius albus*
Snowy egret	*Egretta thula*
Little blue heron	*Egretta caerulea*
Cattle egret	*Babulcus ibis*
Green–backed heron	*Butorides striatus*
Black–crowned night heron	*Nycticorax nycticorax*
Yellow–crowned night heron	*Nyctanassa violacea*
Glossy ibis	*Plegadis falcinellus*
Mute swan	*Cygnus olor*
Canada goose	*Branta canadensis*
Wood duck	*Aix sponsa*
American black duck	*Anas rubripes*
Mallard	*Anas platyrhynchos*
Blue–winged teal	*Anas discors*
Gadwall	*Anas strepera*
Hooded merganser	*Lophodytes cucullatus*
Common merganser	*Mergus merganser*
Turkey vulture	*Cathartes aura*
Sharp–shinned hawk	*Accipiter striatus*
Cooper's hawk	*Accipiter cooperii*
Northern goshawk	*Accipiter gentilis*
Red–shouldered hawk	*Buteo lineatus*
Broad–winged hawk	*Buteo platypterus*
Red–tailed hawk	*Buteo jamaicensis*
American kestrel	*Falco sparverius*
Ring–necked pheasant	*Phasianus colchicus*
Ruffed grouse	*Bonasa umbellus*
Wild turkey	*Meleagris gallopavo*
Northern bobwhite	*Colinus virginianus*
Clapper rail	*Rallus longirostris*
King rail	*Rallus elegans*
Virginia rail	*Rallus limicola*
Sora	*Porzana carolina*
Common moorhen	*Gallinula chloropus*
Piping plover	*Charadrius melodus*
Killdeer	*Charadrius vociferus*
American oystercatcher	*Haematopus palliatus*
Willet	*Catoptrophorus semipalmatus*
Spotted sandpiper	*Actitis macularia*
Upland sandpiper	*Bartramia longicauda*
American woodcock	*Scolopax minor*
Herring gull	*Larus argentatus*
Great black–backed gull	*Larus marinus*
Roseate tern	*Sterna dougalii*
Least tern	*Sterna antillarum*
Rock dove	*Columba livia*
Mourning dove	*Zenaida macroura*
Black–billed cuckoo	*Coccyzus erythropthalmus*

TABLE A5 cont.
BREEDING BIRDS WHOSE RANGES INCLUDE THE WATERBURY, CONNECTICUT USARC INCLUDING POTENTIAL NESTING SPECIES (1994)

Yellow–billed cuckoo	*Coccyzus americanus*
Barn owl	*Tyto alba*
Eastern screech owl	*Otus asio*
Great horned owl	*Bubo virginianus*
Barred owl	*Strix varia*
Long–eared owl	*Asio otus*
Northern saw–whet owl	*Aegolius acadicus*
Common nighthawk	*Chordeiles minor*
Whip–poor–will	*Caprimulgus vociferus*
Chimney swift	*Chaetura pelagica*
Ruby–throated hummingbird	*Archilochus colubris*
Belted kingfisher	*Ceryle alcyon*
Red–headed woodpecker	*Melanerpes erythrocephalus*
Red–bellied woodpecker	*Melanerpes carolinus*
Yellow–bellied sapsucker	*Sphyrapicus varius*
Downy woodpecker	*Picoides pubescens*
Hairy woodpecker	*Picoides villosus*
Northern flicker	*Colaptes auratus*
Pileated woodpecker	*Cryocopus pileatus*
Eastern wood–pewee	*Contopus virens*
Alder flycatcher	*Empidonax alnorum*
Willow flycatcher	*Empidonax trailli*
Least flycatcher	*Empidonax minimus*
Eastern phoebe	*Sayornis phoebe*
Great–crested flycatcher	*Myiarchus crinitus*
Eastern kingbird	*Tyrannus tyrannus*
Horned lark	*Eremophila alpestris*
Purple martin	*Progne subis*
Tree swallow	*Tachycineta bicolor*
Northern rough–winged swallow	*Stelgidopteryx serripennis*
Bank swallow	*Riparia riparia*
Cliff swallow	*Hirunda pyrrhonota*
Barn swallow	*Hirundo rustica*
Blue jay	*Cyanocitta cristata*
American crow	*Corvus brachyrhynchos*
Fish crow	*Corvus ossifragus*
Common raven	*Corvus corax*
Black–capped chickadee	*Parus atricapillus*
Tufted titmouse	*Parus bicolor*
Red–breasted nuthatch	*Sitta canadensis*
White–breasted nuthatch	*Sitta carolinensis*
Brown creeper	*Certhia americana*
Carolina wren	*Thryothorus ludovicianus*
House wren	*Troglodytes aedon*
Winter wren	*Troglodytes troglodytes*
Sedge wren	*Cistothorus platensis*
Marsh wren	*Cistothorus palustris*
Golden–crowned kinglet	*Regulus satrapa*
Blue–gray gnatcatcher	*Polioptila caerulea*
Eastern bluebird	*Sialia sialis*
Veery	*Catharus fuscescens*
Hermit thrush	*Catharus guttatus*

TABLE A5 cont.
BREEDING BIRDS WHOSE RANGES INCLUDE THE WATERBURY, CONNECTICUT USARC INCLUDING POTENTIAL NESTING SPECIES (1994)

Wood thrush	*Hylocichla mustelina*
American robin	*Turdus migratorius*
Gray catbird	*Dumetella carolinensis*
Northern mockingbird	*Mimus polyglottos*
Brown thrasher	*Toxostoma rufum*
Cedar waxwing	*Bombycilla cedrorum*
European starling	*Sturnus vulgaris*
White–eyed vireo	*Vireo griseus*
Yellow–throated vireo	*Vireo flavifrons*
Warbling vireo	*Vireo gilvus*
Red–eyed vireo	*Vireo olivaceus*
Blue–winged warbler	*Vermivora pinus*
Golden–winged warbler	*Vermivora chrysoptera*
Nashville warbler	*Vermivora ruficapilla*
Yellow warbler	*Dendroica petechia*
Chestnut–sided warbler	*Dendroica pensylvanica*
Magnolia warbler	*Dendroica magnolia*
Yellow–rumped warbler	*Dendroica coronata*
Black–throated green warbler	*Dendroica virens*
Blackburnian warbler	*Dendroica fusca*
Pine warbler	*Dendroica pinus*
Prairie warbler	*Dendroica discolor*
Cerulean warbler	*Dendroica cerulea*
Black–and–white warbler	*Mniotilta varia*
American redstart	*Setophaga ruticilla*
Prothonotary warbler	*Protonotaria citrea*
Worm–eating warbler	*Helmitheros vermivorus*
Ovenbird	*Seiurus aurocapillus*
Northern waterthrush	*Seiurus noveboracensis*
Louisiana waterthrush	*Seiurus motacilla*
Kentucky warbler	*Oporornis formosus*
Common yellowthroat	*Geothlypis trichas*
Hooded warbler	*Wilsonia citrina*
Canada warbler	*Wilsonia canadensis*
Yellow–breasted chat	*Icteria virens*
Scarlet tanager	*Piranga olivacea*
Northern cardinal	*Cardinalis cardinalis*
Rose–breasted grosbeak	*Pheucticus ludovicianus*
Indigo bunting	*Passerina cyanea*
Rufous–sided towhee	*Pipilo erythrophthalmus*
Chipping sparrow	*Spizella passerina*
Field sparrow	*Spizella pusilla*
Savannah sparrow	*Passerculus sandwichensis*
Grasshopper sparrow	*Ammodramus savannarum*
Sharp–tailed sparrow	*Ammodramus caudacutus*
Seaside sparrow	*Ammodramus maritimus*
Song sparrow	*Melospiza melodia*
Swamp sparrow	*Melospiza georgiana*
White–throated sparrow	*Zonotrichia albicollis*
Dark–eyed junco	*Junco hyemalis*
Bobolink	*Dolichonyx oryzivorus*
Red–winged blackbird	*Agelaius phoeniceus*

TABLE A5 cont.

BREEDING BIRDS WHOSE RANGES INCLUDE THE WATERBURY, CONNECTICUT USARC INCLUDING POTENTIAL NESTING SPECIES (1994)

Eastern meadowlark	*Sturnella magna*
Common grackle	*Quiscalus quiscula*
Brown-headed cowbird	*Molothrus ater*
Orchard oriole	*Icterus spurius*
Northern oriole	*Icterus galbula*
Purple finch	*Carpodacus purpureus*
House finch	*Carpodacus mexicanus*
American goldfinch	*Carduelis tristis*
House sparrow	*Passer domesticus*

DENOTES SPECIES POTENTIALLY NESTING ON THE USARC BECAUSE SUITABLE HABITAT IS PRESENT.

NOMENCLATURE FROM:
AMERICAN BIRDING ASSOCIATION 1990.

RANGES FROM:
1) DEGRAAF AND RUDIS 1983b.
2) ZERANSKI AND BAPTIST 1990.

TABLE A6
MAMMALS WHOSE RANGES INCLUDE THE WATERBURY, CONNECTICUT USARC (1994)

VIRGINIA OPOSSUM	*DIDELPHIS VIRGINIANA*
COMMON MASKED SHREW	*SOREX CINEREUS*
WATER SHREW	*SOREX PALUSTRIS ALBIBARBIS*
SMOKEY SHREW *	*SOREX FUMEUS*
NORTHERN SHORT–TAILED SHREW	*BLARINA BREVICAUDA*
LEAST SHREW *	*CRYPTOTIS PARVA*
HAIRY–TAILED MOLE *	*PARASCALOPS BREWERI*
EASTERN MOLE	*SCALOPUS AQUATICUS*
STAR–NOSED MOLE	*CONDYLURA CRISTATA*
LITTLE BROWN MYOTIS	*MYOTIS LUCIFUGUS*
KEEN'S MYOTIS	*MYOTIS KEENII SEPTENTRIONALIS*
SILVER–HAIRED BAT	*LASIONYCTERIS NOCTIVAGANS*
EASTERN PIPISTRELLE	*PIPISTRELLUS SUBFLAVUS OBSCURUS*
BIG BROWN BAT	*EPTESICUS FUSCUS*
EASTERN RED BAT	*LASIURUS BOREALIS*
HOARY BAT	*LASIURUS CINEREUS*
EASTERN COTTONTAIL	*SYLVILAGUS FLORIDANUS*
NEW ENGLAND COTTONTAIL	*SYLVILAGUS TRASITIONALIS*
SNOWSHOE HARE	*LEPUS AMERICANUS*
EUROPEAN HARE	*LEPUS EUROPAEUS*
EASTERN CHIPMUNK	*TAMIAS STRIATUS*
WOODCHUCK	*MARMOTA MONAX*
EASTERN GRAY SQUIRREL	*SCIURUS CAROLINENSIS PENNSYLVANICUS*
RED SQUIRREL	*TAMIASCIURUS HUDSONICUS*
SOUTHERN FLYING SQUIRREL	*GLAUCOMYS VOLANS*
AMERICAN BEAVER	*CASTOR CANADENSIS*
WHITE–FOOTED MOUSE	*PEROMYSCUS LEUCOPUS*
SOUTHERN RED–BACKED VOLE *	*CLETHRIONOMYS GAPPERI*
MEADOW VOLE	*MICROTUS PENNSLYVANICUS*
WOODLAND VOLE	*MICROTUS PINETORUM SCALOPSOIDES*
COMMON MUSKRAT	*ONDATRA ZIBETHICUS*
SOUTHERN BOG LEMMING	*SYNAPTOMYS COOPERI*
NORWAY RAT	*RATTUS NORVEGICUS*
HOUSE MOUSE	*MUS MUSCULUS*
MEADOW JUMPING MOUSE	*ZAPUS HUDSONIUS*
WOODLAND JUMPING MOUSE	*NAPAEOZAPUS INSIGNIS*
COYOTE *	*CANIS LATRANS*
RED FOX	*VULPES VULPES*
COMMON GRAY FOX	*UROCYON CINEREOARGENTEUS*
COMMON RACCOON	*PROCYON LOTOR*
ERMINE	*MUSTELA ERMINEA CICOGNANII*
LONG–TAILED WEASEL	*MUSTELA FRENATA*
STRIPED SKUNK	*MEPHITIS MEPHITIS*
MINK	*MUSTELA VISON*
NORTHERN RIVER OTTER	*LUTRA CANADENSIS*
BOBCAT	*LYNX RUFUS*
WHITE–TAILED DEER	*ODOCOILEUS VIRGINIANUS BOREALIS*

* Reserve Center is near the edge of the species geographic range.

NOMENCLATURE FROM:
JONES et.al. 1992.

RANGES FROM:
1) DEGRAAF AND RUDIS 1983b.
2) GODIN 1977.

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STATE PROTECTED SPECIES INFORMATION

STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION

NATURAL RESOURCES CENTER
79 Elm Street, Store Level
Hartford, Connecticut 06106-5127
Natural Diversity Data Base

February 25, 1994

Jim Duncan
ENSR
25 Nagog Park
Acton, MA 01720

Re: 8 Army Reserve Centers
in Connecticut

Dear Mr. Duncan:

As per our conversation on February 18, 1994 I have reviewed the eight centers again to determine whether any significant species or communities are in close proximity to these areas. I can provide you with the following comments:

Site 1: 536 Spring Street, Windsor Locks

This Reserve Center is in close proximity to Bradley International Airport. The airport provides important habitat for many species of grassland birds such as:

Species	State Status
Ammodramus savannarum (Grasshopper Sparrow)	Endangered
Bartramia longicauda (Upland Sandpiper)	Endangered
Eremophila alpestris (Horned Lark)	Threatened
Passerculus sandwichensis (Savannah Sparrow)	Special Conc
Pooecetes gramineus (Vesper Sparrow)	Endangered

These birds require open grassy spaces for nesting. Bradley International Airport also has within its boundaries a pitch pine scrub barren - a critical habitat in Connecticut. The pitch pine-scrub oak vegetation at Bradley is a remnant of a much more extensive area which once covered thousands of acres in this part of Connecticut. Although small, this site is fairly representative example of this vegetation type and is one of the better examples remaining in Connecticut.

Site 2: Phelps Road, East Windsor

This Reserve Center is in close proximity to the Connecticut River. The River proper does provide important habitat for many Federal and State Endangered Species. One of these species, Haliaeetus leucocephalus (Bald Eagle) is known to perch and feed from large trees along the river. Bald Eagles are listed as Federal and State Endangered.

This site is also in the vicinity of a floodplain forest - a significant natural community. Our records also indicate that in 1937 a State Endangered bird species Melanerpes erythrocephalus (Red-headed Woodpecker) was known to occur in the general vicinity of this Reserve Center. These birds inhabit open woodlands or farmland with scattered dead trees.

Site 3: 200 Wintergreen Avenue, New Haven

This Army Reserve Site is in close proximity to West Rock Ridge. West Rock Ridge does have many State Endangered and Threatened Species but they are all associated with trap rock ridge habitat.

Site 4: 180 High Street, Fairfield

There are no significant species or communities in the vicinity of this Reserve Center.

Site 5: Mile Lane, Middletown

There are no significant species or communities in the vicinity of this Reserve Center.

Site 6: 700 south Quaker Lane, West Hartford

There are no significant species or communities in the vicinity of this Reserve Center.

Site 7: 26 Seamans Lane, Milford

According to our information a State Endangered bird species Ammodramus savannarum was known to occur in the vicinity of this Reserve Center in 1894. We have no further information on whether this grassland bird species can still find suitable nesting habitat in the area.

Site 8: Lydia Street Extension

This army reserve site is in close proximity to the Mad River. We do have records of *Carex polymorpha* (Variable Sedge) from 1990 in the area of the Mad River. *Carex Polymorpha* is a State Endangered Species.

I hope this information will be of value to you during your site evaluations. If I can be of further help, please let me know.

Sincerey,

Dawn M. McKay

Dawn M. McKay
Environmental Analyst III

DMM/dmt

THE CONNECTICUT ENDANGERED SPECIES ACT
CHAPTER 495
GENERAL STATUTES OF CONNECTICUT

In 1989, the Connecticut Legislature passed Public Act 89-224 "An Act Establishing a Program for the Protection of Endangered and Threatened Species." The overall goal of the legislation is to conserve, protect, restore and enhance any endangered or threatened species and their essential habitat. As part of the Endangered/Threatened species program, the Commissioner of the Department of Environmental Protection can conduct studies of wildlife and plants to better understand their distribution, population, habitat needs and limiting factors which determine conservation and management measures.

One of the first steps in the implementation of the law requires the Commissioner to develop lists of Endangered, Threatened and Special Concern Species. Initial lists were developed by DEP biologists and then reviewed by groups of experts in their various taxonomic fields. In July of 1991, public comment was solicited, evaluated and incorporated into the listing process. These lists are now finalized and published in this brochure for your information. The list is broken down into taxonomic groups: mammals, birds, reptiles, amphibians, fish, invertebrates and plants. Within these taxonomic groups the species are further categorized as being Endangered (E), Threatened (T) or Special Concern (SC). Each list is alphabetized by the species' scientific name. According to the law:

"Endangered Species" means any native species documented by biological research and inventory to be in danger of extirpation throughout all or a significant portion of its range within the state and to have no more than five occurrences in the state, and any species determined to be an "endangered species" pursuant to the federal Endangered Species Act.

"Threatened Species" means any native species documented by biological research and inventory to be likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range within the state and to have no more than nine occurrences in the state, and any species determined to be a "threatened species" pursuant to the federal Endangered Species Act, except for such species determined to be endangered by the Commissioner in accordance with section 4 of this act.

"Species of Special Concern" means any native plant species or any native nonharvested wildlife species documented by scientific research and inventory to have a naturally restricted range or habitat in the state, to be at a low population level, to be in such high demand by man that its unregulated taking would be detrimental to the conservation of its population or has been extirpated from the state.

If you would like a copy of the legislation or have any questions regarding these lists or the species contained on these lists, please contact one of the offices listed on the inside back cover.

MAMMALS

SC **Gray wolf* +**
Canis lupus

E **Least shrew**
Cryptotis parva

SC **Eastern cougar* +**
Felis concolor couguar

SC **Gray seal**
Halichoerus grypus

SC **Silver-haired bat**
Lasionycteris noctivagans

SC **Red bat**
Lasiurus borealis

SC **Hoary bat**
Lasiurus cinereus

SC **Fisher**
Martes pennanti

SC **Eastern small-footed bat***
Myotis leibii

SC **Indiana myotis* +**
Myotis sodalis

SC **Eastern woodrat***
Neotoma floridana

SC **Harbor porpoise**
Phocoena phocoena

SC **Southern bog lemming**
Synaptomys cooperi

* Extirpated
\+ Federally Endangered

BIRDS

T **Cooper's hawk**
Accipiter cooperii

T **Sharp-shinned hawk**
Accipiter striatus

SC **Northern saw-whet owl**
Aegolius acadicus

SC **Sharp-tailed sparrow**
Ammodramus caudacutus

SC **Henslow's sparrow***
Ammodramus henslowii

SC **Seaside sparrow**
Ammodramus maritimus

E **Grasshopper sparrow**
Ammodramus savannarum

SC **Great blue heron**
Ardea herodias

T **Short-eared owl**
(wintering populations)
Asio flammeus

E **Long-eared owl**
Asio otus

E **Upland sandpiper**
Bartramia longicauda

E **American bittern**
Botaurus lentiginosus

SC **Cattle egret**
Bubulcus ibis

SC **Red-shoulder hawk**
Buteo lineatus

SC **Whip-poor-will**
Caprimulgus vociferus

T **Great egret**
Casmerodius albus

T **Willet**
Catoptrophorus semipalmatus

T **Piping plover ^**
Charadrius melodus

SC **Common nighthawk**
Chordeiles minor

E **Northern harrier**
Circus cyaneus

E **Sedge wren**
Cistothorus platensis

SC **Olive-sided flycatcher**
Contopus borealis

SC **Common raven**
Corvus corax

SC **Little blue heron**
Egretta caerulea

T **Snowy egret**
Egretta thula

SC **Tricolored heron**
Egretta tricolor

T **Horned lark**
Eremophila alpestris

E **Peregrine falcon +**
Falco peregrinus

T **Common moorhen**
Gallinula chloropus

SC **Common loon**
Gavia immer

SC **American oyster-catcher**
Haematopus palliatus

E **Bald eagle +**
Haliaeetus leucocephalus

E **Yellow-breasted chat**
Icteria virens

T **Least bittern**
Ixobrychus exilis

T **Black rail**
Laterallus jamaicensis

E **Red-headed woodpecker**
Melanerpes erythrocephalus

SC **Eskimo curlew* +**
Numenius borealis

SC **Yellow-crowned night-heron**
Nyctanassa violacea

SC **Black-crowned night-heron**
Nycticorax nycticorax

SC **Osprey**
Pandion haliaetus

SC **Northern Parula**
Parula americana

SC **Savannah sparrow**
Passerculus sandwichensis

SC **Ipswich sparrow**
Passerculus sandwichensis ssp. *princeps*

SC **Glossy ibis**
Plegadis falcinellus

E **Pied-billed grebe**
Podilymbus podiceps

E **Vesper sparrow**
Pooecetes gramineus

SC **Purple martin**
Progne subis

T **King rail (nesting populations only)**
Rallus elegans

T **Least tern**
Sterna antillarum

E **Roseate tern +**
Sterna dougallii

SC **Common tern**
Sterna hirundo

T **Barn owl**
Tyto alba

SC **Golden-winged warbler**
Vermivora chrysoptera

* Extirpated
\+ Federally Endangered
^ Federally Threatened

REPTILES

T **Loggerhead ^**
Caretta caretta

T **Atlantic green turtle ^**
Chelonia mydas

E **Bog turtle**
Clemmys muhlenbergii

E **Timber rattlesnake**
Crotalus horridus

E **Leatherback +**
Dermochelys coriacea

T **Five-lined skink**
Eumeces fasciatus

SC **Eastern hognose snake**
Heterodon platirhinos

E **Atlantic ridley +**
Lepidochelys kempii

SC **Eastern ribbon snake**
Thamnophis sauritus

\+ Federally Endangered
^ Federally Threatened

AMPHIBIANS

SC **Jefferson salamander "complex"**
Ambystoma jeffersonianum

SC **Blue-spotted salamander "complex"**
Ambystoma laterale

T **Blue-spotted salamander (diploid populations)**
Ambystoma laterale

T **Northern Spring salamander**
Gyrinophilus porphyriticus

T **Northern Slimy salamander**
Plethodon glutinosus

E **Eastern spadefoot**
Scaphiopus holbrookii

FISH

E **Shortnose sturgeon +**
Acipenser brevirostrum

T **Atlantic sturgeon** (in freshwater)
Acipenser oxyrhynchus

SC **American brook lamprey**
Lampetra appendix

SC **Burbot**
Lota lota

\+ Federally Endangered

INVERTEBRATES

SC **Albarufan dagger moth***
Acronicta albarufa

SC **Noctuid moth***
Acronicta lanceolaria

SC **Noctuid moth***
Agrotis stigmosa

E **Dwarf wedge mussel +**
Alasmidonta heterodon

SC **Brook floater**
Alasmidonta varicosa

SC **Salt-and-pepper skipper**
Amblyscirtes hegon

E **Noctuid moth**
Anarta luteola

SC **New Jersey tea inchworm**
Apodrepanulatrix liberaria

SC **Lilypad clubtail**
Arigomphus furcifer

SC **Tawny emperor**
Asterocampa clyton

SC **Tabanid fly***
Atylotus ohioensis

SC **Ground beetle**
Bembidion quadratulum

E **Northern metalmark**
Calephelis borealis

SC **Herodias underwing***
Catocala herodias gerhardi

SC **Precious underwing moth***
Catocala pretiosa

SC **Noctuid moth***
Chaetaglaea cerata

SC **Northeastern beach tiger beetle* ^**
Cicindela dorsalis dorsalis

E **Puritan tiger beetle ^**
Cicindela puritana

SC **Red-bellied tiger beetle**
Cicindela rufiventris

SC **Regal moth***
Citheronia regalis

SC **Mystic Valley amphipod**
Crangonyx aberrans

SC **Noctuid moth**
Crymodes burgessi

SC **Noctuid moth**
Cucullia speyeri

E **Racket-tailed emerald**
Dorocordulia libera

SC **Imperial moth***
Eacles imperialis

E **Virginia River snail**
Elimia virginica

SC **Mottled duskywing***
Erynnis martialis

E **Persius duskywing**
Erynnis persius persius

SC **Noctuid moth**
Eucoptocnemis fimbriaris

SC **Clam shrimp**
Eulimnadia stoningtonensis

SC **Sedge skipper**
Euphyes dion

SC **Noctuid moth***
Euxoa pleuritica

SC **Violet dart moth***
Euxoa violaris

SC **Pitcher plant moth**
Exyra rolandiana

SC **Lymnaeid snail***
Fossaria galbana

SC **Lymnaeid snail***
Fossaria rustica

SC **Horse fly**
Goniops chrysocoma

SC **Phyllira tiger moth***
Grammia phyllira

E **Bog tiger moth**
Grammia speciosa

SC **Aquatic snail**
Gyraulus circumstriatus

SC **Slender clearwing***
Hemaris gracilis

E **Buck moth**
Hemileuca maia

SC **Leonardus skipper**
Hesperia leonardus

T **Horse fly**
Hybomitra frosti

E **Horse fly**
Hybomitra longiglossa

SC **Horse fly**
Hybomitra lurida

SC **Horse fly**
Hybomitra trepida

SC **Horse fly**
Hybomitra typhus

SC **Hop vine borer moth***
Hydraecia immanis

SC **Henry's elfin***
Incisalia henrici

SC **Frosted elfin**
Incisalia irus

SC **Hoary elfin***
Incisalia polios

SC **Yellow lampmussel***
Lampsilis cariosa

SC **Noctuid moth***
Lepipolys perscripta

E **Tidewater mucket**
Leptodea ochracea

SC **Hudsonian whiteface**
Leucorrhinia hudsonica

SC **Eastern pond mussel***
Ligumia nasuta

SC **Lemmer's noctuid moth***
Lithophane lemmeri

SC **Pale green pinion moth***
Lithophane viridipallens

SC **Black lordithon rove beetle***
Lordithon niger

T **Bog copper**
Lycaena epixanthe

SC **Eastern pearlshell**
Margaritifera margaritifera

SC **Newman's brocade***
Meropleon ambifusca

SC **Tabanid fly**
Merycomyia whitneyi

SC **Geometer moth***
Metarranthis amyrisaria

SC **Geometer moth***
Metarranthis apiciaria

E **Hessel's hairstreak**
Mitoura hesseli

SC **Syrphid fly***
Mixogaster johnsoni

SC **American burying beetle* +**
Nicrophorus americanus

T **Pitcher plant borer**
Papaipema appassionata

SC **Borer moth***
Papaipema cerina

SC **Borer moth**
Papaipema circumlucens

SC **Goldenrod stem borer**
Papaipema duovata

SC **Columbine borer**
Papaipema leucostigma

SC **Borer moth***
Papaipema maritima

SC **Borer moth***
Papaipema sciata

SC **Giant swallowtail**
Papilio cresphontes

T **Labrador tea tentiform**
Phyllonorycter ledella

SC **Slenderwalker**
Pomatiopsis lapidaria

SC **Whiteriver crayfish**
Procambarus acutus

SC **Noctuid moth***
Psectraglaea carnosa

SC **Ceromatic noctuid moth***
Pyreferra ceromatica

SC **Orange swallow moth**
Rhodoecia aurantiago

SC **Soldier fly**
Sargus fasciatus

SC **Noctuid moth**
Schinia spinosae

SC **Spongillafly**
Sisyra fuscata

SC **Regal fritillary***
Speyeria idalia

SC **Purse web spider***
Sphodros niger

SC **Lymnaeid snail**
Stagnicola catascopium

SC **Tabanid fly**
Stonemyia isabellina

SC **Piedmont groundwater amphipod**
Stygobromus tenuis

SC **Horse fly**
Tabanus fulvicallus

SC **Cicada***
Tibicen auletes

SC **Boreal turret snail***
Valvata sincera

SC **Turret snail**
Valvata tricarinata

E **Banded bog skimmer**
Williamsonia lintneri

T **Noctuid moth**
Zale curema

SC **Noctuid moth***
Zale metatoides

SC **Noctuid moth**
Zale obliqua

SC **Noctuid moth**
Zale submediana

* Extirpated
+ Federally Endangered
^ Federally Threatened

PLANTS

E **Balsam fir^x**
Abies balsamea

SC **Virginia copperleaf***
Acalypha virginica

SC **Black maple**
Acer nigrum

E **Sandplain gerardia +**
Agalinis acuta

SC **Yellow giant hyssop***
Agastache nepetoides

SC **Purple giant hyssop**
Agastache scrophulariifolia

SC **Small-flowered agrimony**
Agrimonia parviflora

T **Orange foxtail**
Alopecurus aequalis

SC **Sea-beach amaranth***
Amaranthus pumilus

E **Roundleaf shadbush**
Amelanchier sanguinea

E **Bog rosemary**
Andromeda glaucophylla

E **Canada anemone**
Anemone canadensis

SC **Field pussytoes***
Antennaria neglecta ssp. *petaloidea*

SC **Puttyroot***
Aplectrum hyemale

E **Dwarf mistletoe**
Arceuthobium pusillum

T **Smooth mountain sandwort**
Arenaria glabra

E **Large-leaved sandwort**
Arenaria macrophylla

E **Arethusa**
Arethusa bulbosa

SC **Green dragon**
Arisaema dracontium

T **Beach needlegrass**
Aristida tuberculosa

T **Virginia snakeroot**
Aristolochia serpentaria

E **White milkweed**
Asclepias variegata

SC **Green milkweed***
Asclepias viridiflora

T **Mountain spleenwort**
Asplenium montanum

T **Wallrue spleenwort**
Asplenium ruta-muraria

E **Blake's aster**
Aster X *blakei*

T **Bog aster**
Aster nemoralis

SC **Crooked-stem aster***
Aster prenanthoides

E **Rough-leaved aster**
Aster radula

T **Showy aster**
Aster spectabilis

E **Narrow-leaved glade fern**
Athyrium pycnocarpon

SC **Swamp birch**
Betula pumila

SC **Eaton's beggar-tick**
Bidens eatonii

SC **Hairy woodmint**
Blephilia hirsuta

SC **Little grape fern***
Botrychium simplex

E **Side-oats grama-grass**
Bouteloua curtipendula

SC **Sweet-scented indian-plantain***
Cacalia suaveolens

SC **Reed bentgrass**
Calamagrostis stricta ssp. *inexpansa*

SC **Purple cress**
Cardamine douglassii

SC **Bronze sedge***
Carex aenea

SC **Summer sedge***
Carex aestivalis

E **Broadwing sedge**
Carex alata

SC **Foxtail sedge***
Carex alopecoidea

SC **Sedge**
Carex aquatilis var. altior

SC **Bailey's sedge***
Carex baileyi

SC **Barratt's sedge***
Carex barrattii

E **Brown bog sedge**
Carex buxbaumii

T **Chestnut-colored sedge**
Carex castanea

SC **Collins sedge***
Carex collinsii

E **Crawe's sedge**
Carex crawei

SC **Crawford sedge***
Carex crawfordii

SC **Clustered sedge***
Carex cumulata

E **Davis' sedge**
Carex davisii

T **Handsome sedge**
Carex formosa

SC **Sedge**
Carex hirsutella

SC **Hitchcock's sedge**
Carex hitchcockiana

E **Sedge**
Carex limosa

SC **False hop sedge**
Carex lupuliformis

SC **Sedge***
Carex magellanica

SC **Troublesome sedge***
Carex molesta

SC **Black-edge sedge***
Carex nigromarginata

SC **New England sedge***
Carex novae-angliae

E **Eastern few-fruited sedge**
Carex oligocarpa

SC **Few-seeded sedge***
Carex oligosperma

SC **Few-flowered sedge***
Carex pauciflora

E **Variable sedge**
Carex polymorpha

T **Prairie sedge**
Carex prairea

E **Cyperus-like sedge**
Carex pseudo-cyperus

T **Schweinitz's sedge**
Carex schweinitzii

SC **Dioecious sedge**
Carex sterilis

SC **Rigid sedge**
Carex tetanica

E **Little green sedge**
Carex viridula

SC **Willdenow's sedge***
Carex willdenowii

SC **Pretty sedge**
Carex woodii

SC **Wild senna**
Cassia hebecarpa

E **Indian paintbrush**
Castilleja coccinea

SC **American bittersweet**
Celastrus scandens

SC **Eastern redbud***
Cercis canadensis

E **Devil's-bit**
Chamaelirium luteum

E **Hairy lip-fern**
Cheilanthes lanosa

E **Sickle-leaved golden aster**
Chrysopsis falcata

E **Sea-coast angelica**
Coelopleurum lucidum

T **Early coralroot**
Corallorhiza trifida

T **Yellow corydalis**
Corydalis flavula

SC **Pygmyweed**
Crassula aquatica

SC **Elliptical rushfoil***
Crotonopsis elliptica

E **Slender cliff-brake**
Cryptogramma stelleri

SC **Hazel dodder***
Cuscuta coryli

SC **Wild comfrey***
Cynoglossum virginianum

SC **Ram's-head lady's-slipper***
Cypripedium arietinum

E **Showy lady's-slipper**
Cypripedium reginae

E **Dew-drop**
Dalibarda repens

SC **Dillen's tick-trefoil**
Desmodium glabellum

E **Trailing tick-trefoil**
Desmodium humifusum

SC **Sessile-leaf tick-trefoil***
Desmodium sessilifolium

T **Squirrel corn**
Dicentra canadensis

SC **Panic grass**
Dichanthelium ovale var. *addisonii*

E **Panic grass**
Dichanthelium scabriusculum

SC **Panic grass***
Dichanthelium sphaerocarpon var. *isophyllum*

SC **Panic grass***
Dichanthelium xanthophysum

SC **Persimmon**
Diospyros virginiana

E **Saltpond Grass**
Diplachne maritima

SC **Whitlow-grass**
Draba reptans

E **Thread-leaf sundew**
Drosera filiformis

E **Mountain wood-fern**
Dryopteris campyloptera

T **Goldie's fern**
Dryopteris goldiana

E **Bur-head**
Echinodorus tenellus var. *parvulus*

E **Horse-tail spike-rush**
Eleocharis equisetoides

SC **Spike-rush***
Eleocharis microcarpa var. *filiculmis*

E **Spike-rush**
Eleocharis quadrangulata var. *crassior*

SC **Wiegand's wildrice***
Elymus canadensis var. *wiegandii*

SC **Slender wheatgrass**
Elymus trachycaulus ssp. *subsecundus*

SC **Marsh horsetail***
Equisetum palustre

SC **Meadow horsetail***
Equisetum pratense

T **Dwarf scouring rush**
Equisetum scirpoides

E **Parker's pipewort**
Eriocaulon parkeri

SC **Cotton bulrush***
Eriophorum alpinum

T **Hare's tail**
Eriophorum spissum

E **White thoroughwort**
Eupatorium album

E **Small white snakeroot**
Eupatorium aromaticum

E **Stiff mermaid-weed**
Floerkea proserpinacoides

SC **Bog bedstraw***
Galium labradoricum

T **Creeping snowberry**
Gaultheria hispidula

T **Dwarf huckleberry**
Gaylussacia dumosa var. *bigeloviana*

E **Stiff gentian**
Gentiana quinquefolia

SC **Bicknell's northern crane's-bill***
Geranium bicknellii

SC **Dwarf rattlesnake plantain***
Goodyera repens var. *ophioides*

SC **Bush rockrose***
Helianthemum dumosum

E **Low frostweed**
Helianthemum propinquum

SC **Sharp-lobed hepatica**
Hepatica nobilis var. *acuta*

E **Kidneyleaf mud-plantain**
Heteranthera reniformis

SC **Seabeach sandwort**
Honkenya peploides

SC **Featherfoil**
Hottonia inflata

E **Longleaf bluet**
Houstonia longifolia

E **Golden-heather**
Hudsonia ericoides

T **False beach-heather**
Hudsonia tomentosa

SC **Green violet***
Hybanthus concolor

E **Golden seal**
Hydrastis canadensis

SC **Virginia waterleaf**
Hydrophyllum virginianum

SC **Creeping St. John's-wort***
Hypericum adpressum

T **Great St. John's-wort**
Hypericum pyramidatum

T **Inkberry**[x]
Ilex glabra

SC **False pennyroyal***
Isanthus brachiatus

SC **Pitted quillwort***
Isoetes foveolata

E **Small whorled pogonia** +
Isotria medeoloides

SC **Weak rush***
Juncus debilis

E **Carolina redroot**
Lachnanthes caroliana

T **Labrador tea**
Ledum groenlandicum

SC **Creeping bush-clover**
Lespedeza repens

SC **Blazing star**
Liatris borealis

E **Scotch lovage**
Ligusticum scothicum

SC **Lilaeopsis**
Lilaeopsis chinensis

SC **Mudwort**
Limosella subulata

SC **Twinflower***
Linnaea borealis var. *americana*

SC **Sandplain flax***
Linum intercursum

SC **Yellow flax**
Linum sulcatum

E **Lily-leaved twayblade**
Liparis liliifolia

E **Dwarf bulrush**
Lipocarpha micrantha

SC **Sweet gum**[x]
Liquidambar styraciflua

SC **Many-fruited false-loosestrife***
Ludwigia polycarpa

E **Globe-fruited False-loosestrife**
Ludwigia sphaerocarpa

SC **Foxtail clubmoss***
Lycopodium alopecuroides

SC **Fir clubmoss***
Lycopodium selago

SC **Climbing fern**
Lygodium palmatum

SC **Stagger-bush***
Lyonia mariana

SC **Narrow loosestrife***
Lythrum lineare

E **White adder's-mouth**
Malaxis brachypoda

E **Green adder's-mouth**
Malaxis unifolia

SC **Hybrid bunchflower***
Melanthium hybridum

SC **Tall millet-grass***
Milium effusum

E **One-flower wintergreen**
Moneses uniflora

E **Red mulberry**
Morus rubra

E **Long-awn hairgrass**
Muhlenbergia capillaris

SC **Slender water-milfoil***
Myriophyllum alterniflorum

SC **Cutleaf water-milfoil***
Myriophyllum pinnatum

SC **Leafless water-milfoil***
Myriophyllum tenellum

SC **Naiad**
Najas guadalupensis

SC **Water lily***
Nymphaea odorataa var. *tuberosa*

SC **Sundrops***
Oenothera fruiticosa

E **Gravel-weed**
Onosmodium virginianum

T **Adder's-tongue**
Ophioglossum vulgatum

SC **Eastern prickly pear**
Opuntia humifusa

SC **Golden club**
Orontium aquaticum

SC **Slender mountain-ricegrass**
Oryzopsis pungens

SC **White wood-sorrel**
Oxalis montana

SC **Violet wood-sorrel**
Oxalis violacea

SC **American ginseng**
Panax quinquefolius

T **Panic grass**
Panicum amarum

SC **Tall flat panic-grass***
Panicum rigidulum var. *elongatum*

SC **Warty panic grass***
Panicum verrucosum

E **Field paspalum**
Paspalum laeve

SC **Bead grass***
Paspalum setaceum
var. *psammophilum*

E **Smooth cliff-brake**
Pellaea glabella

T **Sweet coltsfoot**
Petasites frigidus
var. *palmatus*

SC **Wild kidney bean***
Phaseolus polystachios
var. *aquilonius*

SC **Red spruce**[x]
Picea rubens

E **Red pine**[x]
Pinus resinosa

E **White-fringed orchid**
Platanthera blephariglottis

T **Yellow-fringed orchid**
Platanthera ciliaris

SC **Tall white bog orchid***
Platanthera dilatata

SC **Pale green orchid**
Platanthera flava

SC **Hooker's orchid***
Platanthera hookeri

SC **Large round-leaved orchid***
Platanthera orbiculata

SC **Threadfoot**
Podostemum ceratophyllum

SC **Clammy-weed***
Polanisia dodecandra

E **Nuttall's milkwort**
Polygala nuttallii

E **Seneca snakeroot**
Polygala senega

SC **Seabeach knotweed***
Polygonum glaucum

E **Small-flowered leafcup**
Polymnia canadensis

E **Swamp cottonwood**
Populus heterophylla

SC **Pondweed***
Potamogeton confervoides

SC **Water-thread pondweed***
Potamogeton diversifolius

SC **Fries' pondweed***
Potamogeton friesii

E **Hill's pondweed**
Potamogeton hillii

SC **Capillary pondweed***
Potamogeton pusillus
var. *gemmiparus*

E **Straight-leaved pondweed**
Potamogeton strictifolius

SC **Vasey's pondweed***
Potamogeton vaseyi

E **Three-toothed cinquefoil**
Potentilla tridentata

SC **Alleghany plum***
Prunus alleghaniensis

E **Grave's beach plum**
Prunus maritima
var. *gravesii*

E **Long-beaked bald rush**
Psilocarya scirpoides

SC **Goose grass***
Puccinellia langeana
ssp. *alaskana*

E **Basil mountain-mint**
Pycnanthemum clinopodioides

E **Torrey mountain-mint**
Pycnanthemum torrei

E **Bur oak**
Quercus macrocarpa

E **Water-plantain spearwort**
Ranunculus ambigens

E **Seaside crowfoot**
Ranunculus cymbalaria

SC **Creeping spearwort***
Ranunculus reptans

SC **Cursed crowfoot**
Ranunculus scleratus

SC **White water-crowfoot**
Ranunculus subrigidus

SC **Fragrant sumac***[x]
Rhus aromatica

E **Capillary beak-rush**
Rhynchospora capillacea

E **Beaked rush**
Rhynchospora macrostachya

SC **Skunk currant**
Ribes glandulosum

SC **Swamp black currant***
Ribes lacustre

SC **Wild currant***
Ribes rotundifolium

SC **Wild red currant***
Ribes triste

SC **Shining rose**
Rosa nitida

E **Toothcup**
Rotala ramosior

SC **Sand bramble**
Rubus cuneifolius

SC **Sea-side dock***
Rumex maritimus
var. *fueginus*

SC **Large marsh pink***
Sabatia dodecandra

SC **Waputo***
Sagittaria cuneata

SC **Arrowleaf**
Sagittaria montevidensis
ssp. *spongiosus*

SC **Arrowleaf**
Sagittaria subulata

T **Sandbar willow**
Salix exigua

E **Bog willow**
Salix pedicellaris

SC **Slender willow***
Salix petiolaris

SC **Autumn willow**
Salix serissima

E **Lizard's tail**
Saururus cernuus

E **Pod grass**
Scheuchzeria palustris

SC **Purple oat**
Schizachne purpurascens

SC **Chaffseed*+**
Schwalbea americana

T **Hard-stemmed bulrush**
Scirpus acutus

SC **Salt marsh bulrush**
Scirpus cylindricus

SC **Georgia bulrush**
Scirpus georgianus

SC **Long's bulrush***
Scirpus longii

SC **Bayonet grass**
Scirpus paludosus
var. *atlanticus*

T **Torrey bulrush**
Scirpus torreyi

SC **Few-flowered nutrush***
Scleria pauciflora
var. *caroliniana*

E **Reticulated nutrush**
Scleria reticularis

E **Nutrush**
Scleria triglomerata

SC **Low nutrush***
Scleria verticillata

SC **Hyssop skullcap**
Scutellaria integrifolia

E **Small skullcap**
Scutellaria leonardii

SC **Ragwort***
Senecio pauperculus

T **Three-leaved Solomon's-seal**
Smilacina trifolia

SC **Bristly greenbriar***
Smilax tamnoides var. *hispida*

SC **Elliott's goldenrod**
Solidago elliottii

E **Prairie goldenrod**
Solidago ptarmicoides

E **Stiff goldenrod**
Solidago rigida

E **Early wrinkle-leaved goldenrod**
Solidago rugosa
var. *sphagnophila*

SC **Floating bur-reed**
Sparganium fluctuans

SC **Small bur-reed***
Sparganium minimum

T **Canada sand-spurry**
Spergularia canadensis

SC **Little ladies'-tresses***
Spiranthes tuberosa
var. *grayi*

SC **Dropseed**
Sporobolus asper

SC **Rough dropseed***
Sporobolus clandestinus

E **Sand dropseed**
Sporobolus cryptandrus

E **Northern dropseed**
Sporobolus heterolepis

SC **Small dropseed***
Sporobolus neglectus

E **Hyssop-leaf hedge-nettle**
Stachys hyssopifolia

SC **Smooth hedge-nettle***
Stachys tenuifolia

T **White mandarin**
Streptopus amplexifolius
var. *americanus*

SC **Yellow pimpernel***
Taenidia integerrima

T **Northern white cedar**[x]
Thuja occidentalis

SC **Appalachian gametophyte**
Trichomanes intricatum✓

SC **Narrow-leaved horse gentian***
Triosteum angustifolium

SC **Nodding pogonia***
Triphora trianthophora

SC **Spiked false oats***
Trisetum spicatum
var. *molle*

E **Spreading globe-flower**
Trollius laxus

SC **Two-flower bladderwort***
Utricularia biflora

SC **Fibrous bladderwort***
Utricularia fibrosa

SC **Bladderwort***
Utricularia resupinata

E **Large-flowered bellwort**
Uvularia grandiflora

SC **Velvetleaf blueberry***
Vaccinium myrtilloides

SC **Mountain cranberry***
Vaccinium vitis-idaea
var. *minus*

SC **Beaked corn-salad***
Valerianella radiata
var. *fernaldii*

SC **Possum haw***
Viburnum nudum

SC **Smooth black-haw**
Viburnum prunifolium

E **Coast violet**
Viola brittoniana

T **Canada violet**
Viola canadensis

SC **Southern wood violet***
Viola hirsutula

SC **Northern bog violet***
Viola nephrophylla

SC **Kidney-leaf white violet**
Viola renifolia
var. *brainerdii*

SC **Great-spurred violet***
Viola selkirkii

SC **Striped violet***
Viola striata

SC **New England grape**
Vitis novae-angliae

E **Barren strawberry**
Waldsteinia fragarioides

E **Northern yellow-eyed grass**
Xyris montana

E **Small's yellow-eyed grass**
Xyris smalliana

SC **Horned pondweed**
Zannichellia palustris

E **Golden alexanders**
Zizia aptera

* Extirpated
\+ Federally Endangered
x Native Populations Only
✓ Previously listed as *Trichomanes* sp.

Design by:
Diane Tyler
Produced by:
The Natural Diversity Data Base
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Bog Copper
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Least Shrew
Upland Sandpiper
Small-whorled Pogonia

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FEDERAL PROTECTED SPECIES INFORMATION

United States Department of the Interior

FISH AND WILDLIFE SERVICE
New England Field Offices
22 Bridge Street, Unit #1
Concord, New Hampshire 03301-4986

March 16, 1994

Jim Duncan
ENSR Consulting and Engineering
35 Nagog Park
Acton, MA 01720

Dear Mr. Duncan:

This responds to your letter dated January 21, 1994 requesting information on the presence of Federally listed and proposed endangered or threatened species in relation to 39 Army Reserve Centers in New England. The centers reviewed occur in: Connecticut (8), Maine (3), Massachusetts (12), New Hampshire (5), Rhode Island (7) and Vermont (4).

Based on information currently available to us, no Federally listed or proposed threatened and endangered species under the jurisdiction of the U.S. Fish and Wildlife Service are known to occur in the project area, with the exception of occasional transient endangered bald eagles (Haliaeetus leucocephalus) or peregrine falcons (Falco peregrinus anatum). However, we suggest that you contact the following for information on state listed species that may be present:

Nancy Murray
Connecticut Natural Diversity Data Base
79 Elm St., P.O. Box 5066
Hartford, CT 06106-5066
203-566-3540

Sue Gawler
Maine Natural Areas Program
State House Station 130
Augusta, Maine 04333
(207) 289-6800

Pat Huckery
Massachusetts Natural Heritage Program
Division of Fisheries and Wildlife
100 Cambridge St., Boston, MA 02202
(617) 727-9194

David Moore
New Hampshire Natural Heritage Inventory Program
P.O. Box 856, Concord, New Hampshire 03302-0856
(603) 271-3623

Rick Enser
Rhode Island Natural Heritage Program
83 Park St.
Providence, RI 02903
(401) 277-2776,

Chris Fichtel
Vermont Natural Heritage Program
Agency of Natural Resources
10 South, 103 S. Main St.
Waterbury, VT 05676
(802) 244-7331

Lists of Federally designated endangered and threatened species in all of the New England state are included for your information. Thank you for your cooperation and please contact Susi von Oettingen of this office at (603) 225-1411 if we can be of further assistance.

Sincerely yours,

Kenneth C Carr

for Gordon E. Beckett
Supervisor
New England Field Offices

Enclosures

FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES IN CONNECTICUT

Common Name	Scientific Name	Status	Distribution
FISHES:			
Sturgeon, shortnose*	Acipenser brevirostrum	E	Connecticut River & Atlantic Coastal Waters
REPTILES:			
Turtle, green*	Chelonia mydas	T	Oceanic straggler in southern New England
Turtle, hawksbill*	Eretmochelys imbricata	E	Oceanic straggler in southern New England
Turtle, leatherback*	Dermochelys coriacea	E	Oceanic summer resident
Turtle, loggerhead*	Caretta caretta	T	Oceanic summer resident
Turtle, Atlantic ridley*	Lepidochelys kempii	E	Oceanic summer resident
BIRDS:			
Eagle, bald	Haliaeetus leucocephalus	E	Hartford, entire state-migratory
Falcon, American peregrine	Falco peregrinus anatum	E	No current nesting; entire state-migratory
Falcon, Arctic peregrine	Falco peregrinus tundrius	T	Entire state migratory-no nesting
Plover, Piping	Charadrius melodus	T	Atlantic coast
Roseate Tern	Sterna dougallii dougallii	E	Atlantic coast
MAMMALS:			
Whale, blue*	Balaenoptera musculus	E	Oceanic
Whale, finback*	Balaenoptera physalus	E	Oceanic
Whale, humpback*	Megaptera novaeangliae	E	Oceanic
Whale, right*	Eubalaena spp. (all species)	E	Oceanic
Whale, sei*	Balaenoptera borealis	E	Oceanic
Whale, sperm*	Physeter catodon	E	Oceanic
MOLLUSKS:			
Mussel, dwarf wedge	Alasmidonta heterodon	E	Hartford County
INSECTS:			
Beetle, puritan tiger	Cicindela puritana	T	Middlesex, Conn. River Valley
Beetle, northeastern beach tiger	Cicindela dorsalis dorsalis	T	Extirpated, coastal beaches
PLANTS:			
Small Whorled Pogonia	Isotria medeoloides	E	Hartford, New Haven, Fairfield, New London, Windham, Tolland, Middlesex, Litchfield Counties
Sandplain Gerardia	Agalinus acuta	E	Hartford (Historic)

* Except for sea turtle nesting habitat, principal responsibility for these species is vested with the National Marine Fisheries Service

Rev. 11-12-92

DEPARTMENT OF THE ARMY
U.S. ARMY CENTER FOR HEALTH PROMOTION AND PREVENTIVE MEDICINE-NORTH
4411 LLEWELLYN AVENUE
FORT GEORGE G. MEADE, MARYLAND 20755-5225

MCHB-AN-EH (40-5f)

4 SEP 2003

MEMORANDUM FOR Commander 94th Regional Support Command, ATTN: AFRC-CMA-EN, Ayer, MA 01433

SUBJECT: 94TH Water Quality Survey 31-00V1-03, Paul J. Sutcovoy USARC, Lydia Street Extension, Waterbury, Connecticut 06705, 26 February 2003.

A copy of the subject report with Executive Summary is enclosed. Please refer any questions regarding this project to 2LT Kennon Vann at commercial (301)677-3956, DSN 622-3956, or by e-mail at kennon.vann@na.amedd.army.mil.

CHARLES E. CANNON
LTC, MS
Commanding

CF (w/encl):
CDR, ARC, ATTN: AFRC-SA
CDR, AFRC-CMA-EN-E (Mr. Gary Puryear)
CDR, AFRC-CMA (Dorris Burre)
CDR, MEDDAC, USMA, ATTN: PVNTMED SVC
CDR, NARMC, ATTN: PVNTMED SVC
CDR, USAEC, ATTN: SFIM-AEC-EQ
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DIR, POPM-SA, ATTN: MCPO-SA (EXSUM ONLY)
CDR, USACHPPM, ATTN: MCHB-TS-EWS
CDR, USACHPPM, ATTN: MCHB-CS-ILO

U.S. Army Center for Health Promotion and Preventive Medicine

USCHPPM

94th RSC WATER QUALITY SURVEY
No. 31-00V1-03
PAUL J. SUTCOVOY USARC
26 FEBRUARY 2003

Distribution limited to U.S. Government agencies only; protection of privileged information evaluating another command; 26 February 2003. Requests for this document must be referred to Commander, 94th Regional Support Command ATTN: AFRC-CMA-EN, Ayer, MA 01433

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EXECUTIVE SUMMARY
94TH RSC WATER QUALITY SURVEY 31-00V1-03
PAUL J. SUTCOVOY USARC, WATERBURY, CONNECTICUT
26 FEBRUARY 2003

1. PURPOSE. To evaluate water quality and provide recommendations that ensure water is of good quality and protects human health at the Paul J. Sutcovoy U.S. Army Reserve Center (USARC).

2. CONCLUSIONS.

a. Potability. According to the results of the testing conducted, the water at the Paul J. Sutcovoy USARC is potable. However, the level of secondary parameter concentrations found in the water requires action to be taken to improve the consumers' acceptance of the water.

b. Water Aggressiveness. Conditions within the main and/or service line to the reserve center cause the water to be aggressive. Aggressive water can lead to leaching of metal from the plumbing system and sloughing off of particulates in the water.

c. Turbidity. The elevated turbidity is possibly due to iron pipe material leaching into the drinking water and manganese that is naturally present in the water source. As indicated by the iron level detected by the laboratory, iron oxide particulates may be present. Turbidity, as a primary standard, should not exceed one Nephelometric Turbidity Unit (NTU) where the water leaves the water treatment plant. Similarly, as a secondary or aesthetics standard, drinking water should not rise above one NTU at the point of consumption.

d. Color and Taste. Dissolved metal and particulates can contribute to color and undesirable taste. The iron and manganese concentrations are the most probable causes of the high color reading and undesirable taste at the reserve center. For water to be considered acceptable to consumers, the EPA recommends that the color of the water not exceed 15 color units, iron remain below 0.3 mg/L, and manganese below 50 μg/L. The water at the Paul J. Sutcovoy USARC had a color reading of 20 color units, iron content of 3.09 mg/L, and manganese concentration of 65.5 μg/L. In addition, high manganese in conjunction with low alkalinity affects the palatability of the water.

e. pH. The high pH may be the result of lime. According to the city's water treatment plant personnel, lime is added to the water before it enters the public water system.

f. Plumbing Survey. A plumbing survey was conducted to the extent that the plumbing was accessible. The majority of the center's plumbing is concealed within the walls and ceiling.

3. RECOMMENDATIONS. To address the water quality concerns of the Paul J. Sutcovoy USARC, personnel should institute the following recommendations:

a. Plumbing. Replace the building's cast iron piping.

b. Turbidity.

(1) In lieu of replacing the plumbing at the Paul J. Sutcovoy USARC, install point-of-use filter systems within the water distribution system of the building. The two types of systems recommended in this report are whole house filters which require floor space near the water outlets for installation and counter-top filter systems which can be placed on the counter near the water outlet for installation. The price of the filter systems range from $77.00 to $1,395.00. The appropriate filter system should be chosen depending on the facility's water usage. The treatment devices should be installed and maintained, including filter replacement, in accordance with manufacturer's instruction to prevent further deterioration of the water quality. A list of point-of-use treatment devices for iron and manganese reduction is provided in Appendix C, Treatment Devices.

(2) Implement both comprehensive and daily flushing plans to remove iron. Comprehensive flushing should be performed based on the number of consumer complaints. This type of flushing should start at the source and continue to the end of the distribution system. The daily flushing plan should involve the running of tapwater for approximately five (5) minutes each morning. Flushing will minimize the amount of iron in the water as it leaves the tap.

c. Operation and Maintenance. Maintain clear and up-to-date plumbing plans that indicate water system components.

d. Contingency Planning. Develop a plan for providing water in case usual water supply becomes inadequate.

4 SEP 2003

MCHB-AN-EH (40-5f)

94TH RSC WATER QUALITY SURVEY 31-00V1-03
PAUL J. SUTCOVOY USARC, WATERBURY, CONNECTICUT
26 FEBRUARY 2003

1. REFERENCES.

a. Title 40 Code of Federal Regulation, Protection of Environment, Part 141, National Primary Drinking Water Regulations, March 2003.

b. Title 40 CFR 143, Protection of Environment, Part 143, National Secondary Drinking Water Regulations, November 2002.

c. Army Regulation No. 420-49; Utility Services, April 1997.

2. AUTHORITY. Email correspondence between Mr. Craig Kelley, DTC, Contractor to the 94th Regional Support Command, Ayer, Massachusetts and MAJ Roberto Torres-Cartagena, Chief, Environmental Health Engineering Division (EHED), U.S. Army Center for Health Promotion and Preventive Medicine (USACHPPM) -North, Fort George G. Meade, Maryland, subject: Water Quality at U.S. Army Reserve Centers, 7 March 2002 and 25 October 2002.

3. PURPOSE. To evaluate water quality and provide recommendations that ensure water is of good quality and protects human health at the Paul J. Sutcovoy U.S. Army Reserve Center (USARC).

4. BACKGROUND.

a. Survey Team. 2LT Kennon Vann, Environmental Engineer, and Mr. Gary Malamud, Environmental Engineer, P.E., EHED, USACHPPM-North, Ft. George G. Meade, Maryland, were responsible for the completion of this survey.

b. Water Quality Concerns. Personnel at Paul J. Sutcovoy USARC have complained of poor water quality. The main concerns are color and taste. According to the facility's manager, Roy Givens, the building's pipes are cast iron; and a city test conducted three years ago for the building indicated a high level of lead in the water (Testing data not available).

c. Water Source. Water provided to the Paul J. Sutcovoy USARC is from the City of Waterbury Bureau of Water. The water is regulated by the State of Connecticut and required to comply with all Federal and State water regulations. The 2001 Water Quality Report for Waterbury, Connecticut lists water quality data of the water entering the reserve center.

5. APPROACH. To the extent possible, plumbing and drinking appurtenances were surveyed for sources of water quality problems. In addition, team members obtained water samples for benchtop and laboratory analyses to characterize water quality. The samples were analyzed for various parameters to determine the cause of the water complaints. The testing procedures for these parameters are discussed in section b of this paragraph.

a. Sample Location. Water samples for this survey were obtained from the cold-water tap of the right-side sink located in the facility's kitchen.

b. Sampling Procedures.

(1) Lead & Copper. Lead and copper testing can be used as an indicator to determine if pipe material is leaching into the water. Lead and copper testing require first draw water samples. First draw refers to water that has been standing in plumbing at least 6 hours and is collected without flushing the tap. The first two water samples were collected in 5mL vials. One 5mL sample was used to conduct benchtop analysis for lead and the other sample for benchtop analysis of copper using the Hach HAS-1000 scanning analyzer. Next, a 1L water sample was collected for the Directorate of Laboratory Sciences (DLS) at USACHPPM-Main so that Environmental Protection Agency (EPA) approved lab analyses could be performed to determine lead and copper content. The cold-water tap to the sink was then turned on to full flow for five (5) minutes to flush the water distribution system within the building.

(2) Alkalinity. After the system was flushed, the alkalinity test was performed. Alkalinity is a measure of the water's ability to neutralize acid; and if detected above 500mg/L may affect the water's palatability. The process began by collecting a 25mL water sample. A phenolphthalein indicator powder pillow was added to the sample in an effort to detect phenolphthalein alkalinity. Because no phenolphthalein alkalinity was detected, a bromcresol green-methyl red indicator powder pillow was added to the solution to detect total alkalinity. Using 0.16M sulfuric acid as the titrating agent, the titration process continued until the team observed a color change in the solution from blue-green to grey-blue. Also, a 1L sample was collected for transport to DLS for confirmatory analysis of alkalinity.

(3) Iron. Next, the team tested for iron content. Iron concentration is important in determining if the water's palatability is acceptable to the consumer. Because iron imparts a taste that is detectable at very low concentrations, the concentration of iron in drinking water should not exceed 0.3 mg/L. To perform this test, a ferrous iron reagent powder pillow was added to a 25mL water sample. The sample was then analyzed using the procedures prescribed

by the Hach Drel 2010 portable water laboratory. Again, a 1L sample was collected for DLS to test for iron, calcium, and manganese concentrations[1].

(4) Free Available Chlorine. The next test performed was for free available chlorine. Free available chlorine is the concentration of chlorine that remains in the water after disinfection occurs at the water treatment plant. This remaining chlorine provides a residual which continues to kill bacteria in the water. The test was conducted by collecting a 25mL sample and then adding a DPD free chlorine reagent powder pillow to the sample. The water sample was then analyzed using the Hach Drel 2010 portable water laboratory.

(5) Conductivity, pH, and Temperature. Water was collected to determine its conductivity, pH, and temperature. These factors were used in the determination of the Langelier Saturation Index (LSI). Conductivity is the measurement of the water's ability to carry an electrical current and is directly related to total dissolved solids (TDS). Concentrations of TDS above 500 mg/L can affect taste depending on the nature of the minerals present in the water. The pH was measured to determine if the water was acidic or basic. In addition, temperature was measured because it directly affects the amount of free available chlorine in the water.

(6) LSI. The LSI value aids in understanding the potential conditions throughout the water distribution system. Degradation of the water distribution system may occur through corrosion and leaching of metals from the system components. If the LSI is calculated to be a positive number, the water provides an environment conducive for a protective film of calcium carbonate to form on the pipes' walls and therefore, considered non-aggressive. However, if the LSI is negative, the protective film cannot form and the water is considered aggressive. The protective film is preferred because it helps in maintaining water quality through a reduction in corrosion and leaching of metal into the drinking water. This water quality survey used the American Water Works Association's (AWWA) LSI formula for the calculation of the LSI value for the Paul J. Sutcovoy USARC (See Appendix B).

(7) Turbidity. Turbidity is a measure of the water's ability to transmit light, or cloudiness. Turbidity may be caused by suspended organic or inorganic particles within the water. Turbidity used to indicate water quality and filtration effectiveness. Higher turbidity levels are associated with the presence of higher levels of microorganisms. To perform the turbidity test, a water sample was collected in a turbidimeter sample cell. The sample cell was then placed into the turbidimeter for analysis.

[1] Calcium and manganese analyses conducted by DLS only.

(8) Color. The final test conducted by the survey team monitored the color of the facility's water. Color is an aesthetic indicator of water quality. Color was analyzed using a Hach colorwheel.

(9) Preservation Methods. To preserve the water samples for DLS analyses, the survey team adhered to EPA standards. All water samples were kept between 2°C and 6°C by ice in a water/ice chest provided by DLS, after collection and during shipment to the laboratory. Samples used for testing metals, such as lead, copper, iron, calcium, and manganese, were preserved using 1:1 nitric acid (HNO_3).

c. Sample Results. Water sample analyses were conducted to assist in the identification of the source of water complaints. Benchtop analyses were performed on the water samples to determine pH, turbidity, color, temperature, chlorine residual, copper, lead, total dissolved solids, alkalinity, conductivity, and iron. Laboratory samples were analyzed for lead, copper, calcium, iron, alkalinity, total dissolved solids, and manganese.

(1) Analytical Results. Analytical results are provided in Table 1, Analytical Results. Water analyses indicate water at the reserve center did not meet EPA standards for turbidity, iron, manganese, pH, color, or alkalinity. Turbidity levels are not to exceed one Nepholometric Turbidity Unit (NTU) at any time in a public water system. Iron and manganese should not exceed the secondary drinking water standards of 0.3 mg/L and 50 µg/L which can affect the turbidity, color, and taste of water. Also, acceptable pH and color levels are 6.5 to 8.5 and 15 color units. Furthermore, alkalinity should be maintained to at least 60 mg/L as $CaCO_3$ to prevent the water from being too aggressive and causing plumbing corrosion. A copy of the Final Report of the laboratory results is provided in Appendix A, Laboratory Data Report.

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Table 1. Analytical Results

Primary Parameters	Detected	MCL/Action Level
Lead	4.00 µg/L	15 µg/L
Copper	284 µg/L	1300 µg/L
Turbidity*+	18.0 NTU	1 NTU
Free Available Chlorine*	0.01 mg/L	Not Applicable
Secondary Parameters		Standard
Iron	3.09 mg/L	0.3 mg/L
Total Dissolved Solids	126 mg/L	500 mg/L
Conductivity*	148.2 µS/cm	400 µS/cm
Total Alkalinity	28.0 mg/L as $CaCO_3$	60-185 mg/L as $CaCO_3$
Manganese	65.5µg/L	50 µg/L
Calcium	10.3 mg/L	40.0 mg/L
pH*	10.98	6.5-8.5
Color*	20 color units	15 color units
Temperature*	10.5°C	Not Applicable

*Testing conducted on site as part of benchtop analysis
+Primary standard only applies to water leaving the water treatment plant; all other areas adhere to secondary standard.

(2) Water Aggressiveness. Based on the AWWA's LSI equation, the LSI value for water provided to the Paul J. Sutcovoy is 1.26. (LSI calculations are located in Appendix B, LSI Calculations). The positive LSI value should be an indicator the water is non-aggressive and the piping and water system components used to transport water are protected with a coating on the surfaces exposed to the water. However, the extreme pH can cause the water to be aggressive and corrosion of plumbing may occur.

6. CONCLUSIONS.

a. Potability. According to the results of the testing conducted, the water at the Paul J. Sutcovoy USARC is potable. However, the level of secondary parameter concentrations found in the water requires action to be taken to improve the consumers' acceptance of the water.

b. Water Aggressiveness. Conditions within the main and/or service line to the reserve center cause the water to be aggressive. Aggressive water can lead to leaching of metal from the plumbing system and sloughing off of particulates in the water.

c. Turbidity. The elevated turbidity is possibly due to iron pipe material leaching into the drinking water and manganese that is naturally present in the water source. As indicated by the iron level detected by the laboratory, iron oxide particulates may be present. Turbidity, as a primary standard, should not exceed one Nephelometric Turbidity Unit (NTU) where the water leaves the water treatment plant. Similarly, as a secondary or aesthetics standard, drinking water should not rise above one NTU at the point of consumption.

d. Color and Taste. Dissolved metal and particulates can contribute to color and undesirable taste. The iron and manganese concentrations are the most probable causes of the high color reading and undesirable taste at the reserve center. For water to be considered acceptable to consumers, the EPA recommends that the color of the water not exceed 15 color units, iron remain below 0.3 mg/L, and manganese below 50 μg/L. The water at the Paul J. Sutcovoy USARC had a color reading of 20 color units, iron content of 3.09 mg/L, and manganese concentration of 65.5 μg/L. High manganese in conjunction with low alkalinity affects the palatability of the water. In addition, high pH may affect the taste of the water.

e. pH. The high pH may be the result of lime. According to the city's water treatment plant personnel, lime is added to the water before it enters the public water system to stabilize the pH.

f. Plumbing Survey. A plumbing survey was conducted to the extent that the plumbing was accessible. The majority of the center's plumbing is concealed within the walls and ceiling.

7. RECOMMENDATIONS. To address the water quality concerns of the Paul J. Sutcovoy USARC, personnel should institute the following recommendations:

a. Plumbing. Replace the building's cast iron piping.

b. Turbidity.

(1) In lieu of replacing the plumbing at the Paul J. Sutcovoy USARC, install point-of-use filter systems within the water distribution system of the building. The two types of systems recommended in this report are whole house filters which require floor space near the water outlets for installation and counter-top filter systems which can be placed on the counter near the water outlet for installation. The price of the filter systems range from $77.00 to $1,395.00. The appropriate filter system should be chosen depending on the facility's water usage. The treatment devices should be installed and maintained, including filter replacement, in accordance with manufacturer's instruction to prevent further deterioration of the water quality. A list of point-of-use treatment devices for iron and manganese reduction is provided in Appendix C, Treatment Devices.

(2) Implement both comprehensive and daily flushing plans to remove iron. Comprehensive flushing should be performed based on the number of consumer complaints. This type of flushing should start at the source and continue to the end of the distribution system. The daily flushing plan should involve the running of tapwater for approximately five (5) minutes each morning. Flushing will minimize the amount of iron in the water as it leaves the tap.

c. Operation and Maintenance. Maintain clear and up-to-date plumbing plans that indicate water system components.

d. Contingency Planning. Develop a plan for providing water in case usual water supply becomes inadequate.

8. ADDITIONAL ASSISTANCE. The USACHPPM-North provides services in water supply management, pollution prevention, hazardous and medical waste management, worksite hazards management, health care hazard management, ergonomic evaluation, sanitation and hygiene, installation industrial hygiene management, pest management, pesticide risk management, field preventive medicine, and preventive medicine readiness training.

KENNON J. VANN
2LT, MS
Environmental Engineer
Environmental Health Engineering Division

APPROVED BY:

CHRISTOPHER ANSELL
CPT(P), MS
Chief
Environmental Health Engineering Division

APPENDIX A

LABORATORY DATA REPORTS

U.S. Army Center for Health Promotion and Preventive Medicine

2003 MAR 26 AM 9:58

FINAL REPORT

DIRECTORATE OF LABORATORY SCIENCES (DLS)
PROGRAM 31 - SUBJONO: 00V1
REPORT SERIAL NO. 139609
DLS PROFILE #: 27662 - WORK ORDER #: 7521
94th RSC

25-Mar-03

Readiness Thru Health

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DEPARTMENT OF THE ARMY
U.S. ARMY CENTER FOR HEALTH PROMOTION AND PREVENTIVE MEDICINE
5158 BLACKHAWK ROAD
ABERDEEN PROVING GROUND, MARYLAND 21010-5403

REPLY TO
ATTENTION OF

MCHB- TS-LAD (40-5F)

DIRECTORATE OF LABORATORY SCIENCES (DLS)
ANALYTICAL SPECTROMETRY DIVISION
FINAL REPORT
25-Mar-03

CLIENT: 1LT Jennings
94th Regional Support Command
CHPPM-North Bldg 4411
Llewellyn Ave.
Fort George G Meade MD 20755
301-677-3948

PROJECT SITE: 94th RSC
PROGRAM 31 **SUBJONO:** 00V1
DLS PROFILE #: 27662 **DLS WORK ORDER #:** 7521
REPORT SERIAL NUMBER: 139609

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REPORT RELEASE AUTHORIZATION:

Signature: LLB for LTC Weir **Date:** 3/26/03

AIHA Industrial Hygiene ACCREDITED LABORATORY

A2LA Certificate# 28.02

DLS HOLDS ACCREDITATION FROM AIHA, A2LA, NLLAP, AND COLA

Readiness thru Health

CASE NARRATIVE

Two drinking water samples (collected 26 Feb 03) were received on 27 Feb 03 for analysis of various metals.

Sample preservation (pH) was checked prior to analysis. The samples were properly preserved (HNO3 to pH<2). For an acidified drinking water sample (metals analysis) turbidity is determined not to be in compliance with method requirements, therefore, samples had to be digested prior to analysis. This is an internal value only - not to be used as a reportable turbidity result, which is measured on the unacidified portion. The samples had turbidity values >1NTU.

Two metals (Cu and Pb) were determined by EPA Method 200.8 for sample Waterbury #1.
One metal (Mn) was determined by EPA method 200.8 for sample Waterbury#2.
Two metals (Ca and Fe) were measured by EPA Method 200.7 for sample Waterbury #2.
The holding times for all metals were met.
The quality control (QC) report contains laboratory fortified blank (LFB), an instrument spike (IS), a matrix spike (MS) and a matrix spike duplicate (MSD).
All QC data were within acceptance limits.
The reporting units are mg/L for metals determined by 200.7, ug/L for metals determined by 200.8

List of the report contents:

Section	Number of Pages
Cover Sheet	1
Cover Letter	1
Case Narrative	1
Sample Summary	1
Analytical Data Report	2
Quality Control Data Report	5
Raw Data	
Terminology/Abbreviations	1

Report Point-of-Contact: LB
Reviewer: AH, DG

List of all tests used:

DLS Procedure	Count
EPA 200.7	2
EPA 200.8	3

Number of samples included in the report, by matrix:

Matrix	Quantity
Water (Drinking water)	2

Analyst(s):

Analyst Code	Analyst Name	Signature
0028	GEHRINGDG	
0031	GORDONEF	

SAMPLE SUMMARY

Sorted by Field ID

Field ID	DLS ID	Date Collected	Matrix
Waterbury #1	7521001	26-Feb-03	Water (Drinking water)
Waterbury #2	7521002	26-Feb-03	Water (Drinking water)

ANALYTICAL DATA REPORT

(FORMAT OPTION 1)

FINAL REPORT

Sorted by Field ID

Field ID: Waterbury #1 **DLS ID:** 7521001

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Copper	284 ug/L	1.00	EPA 200.8	0028	18-Mar-03
Lead	4.00 ug/L	1.00	EPA 200.8	0028	18-Mar-03

FINAL REPORT

Field ID: Waterbury #2 **DLS ID:** 7521002

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Calcium	10.3 mg/L	0.100	EPA 200.7	0031	19-Mar-03
Iron	3.09 mg/L	0.0500	EPA 200.7	0031	19-Mar-03
Manganese	65.5 ug/L	1.00	EPA 200.8	0028	18-Mar-03

US Army Center for Health Promotion and Preventive Medicine
Directorate Of Laboratory Sciences (DLS)
Analytical Spectrometry Division-Metals Team

Quality Control Report

DSL Workorder: 7521
Installation: 94th RSC
Project Officer: 1LT Jennings
Profile: 00V1

Date Generated: 3/21/2003 1:25:13 PM
Report Generated By: HENINAA

Report ID: HMA0189v1
Work Order No: 7521
Installation: 94th RSC
Officer: 1LT Jennings
Profile: 00V1

Date Report Generated: 3/21/2003 1:25:13 PM
Report Generated By: HENINAA

US Army Center for Health Promotion and Preventive Medicine
Directorate Of Laboratory Sciences (DLS)
Analytical Spectrometry Division-Metals Team

Instrument Spike Sample Report

Target	Date	Sample Number	Matrix	Initial Result	Units	Sample Volume	Spike Solution Conc	Spike Volume	Spiked Result	Units	% Recovery	Analyst	Method	Reviewed By
Calcium	3/19/2003	7521002 IS	DW	10.3	mg/L	5	200		12.4	mg/L	**111.2**	GORDONEF	EPA 200.7 Drinking Water	HENINAA
Copper	3/18/2003	7521002 IS	DW	35.053		10	10000	0.05	83.486	ug/L	**97.7**	GEHRINGDG	EPA 200.8 Drinking Water	HENINAA
Iron	3/19/2003	7521002 IS	DW	3.09	mg/L	5	100		4.02	mg/L	**97.0**	GORDONEF	EPA 200.7 Drinking Water	HENINAA
Lead	3/18/2003	7521002 IS	DW	1.239		10	10000	0.05	52.211	ug/L	**102.5**	GEHRINGDG	EPA 200.8 Drinking Water	HENINAA
Manganes	3/18/2003	7521002 IS	DW	65.46292	ug/L	10	10000	0.05	118.71858	ug/L	**107.7**	GEHRINGDG	EPA 200.8 Drinking Water	HENINAA

Report ID: HMA0189v1
Work Order No: 7521
Installation: 94th RSC
Officer: 1LT Jennings
Profile: 00V1

Date Report Generated: 3/21/2003 1:25:16 PM
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US Army Center for Health Promotion and Preventive Medicine
Directorate Of Laboratory Sciences (DLS)
Analytical Spectrometry Division-Metals Team

Laboratory Control Sample Report

Target	Date	Sample Number	Matrix	Observed	Units	Theoretical	Units	% Recovery	Analyst	Method	Reviewed By
Calcium	3/19/2003	03LCS1-89	DW	1.03	mg/L	1	mg/L	**103.0**	GORDONEF	EPA 200.7 Drinking Water	HENINAA
Iron	3/19/2003	03LCS1-89	DW	0.947	mg/L	1	mg/L	**94.7**	GORDONEF	EPA 200.7 Drinking Water	HENINAA
Copper	3/18/2003	03LCS1-90	DW	50.12	ug/L	50	ug/L	**100.2**	GEHRINGDG	EPA 200.8 Drinking Water	HENINAA
Lead	3/18/2003	03LCS1-90	DW	48.782	ug/L	50	ug/L	**97.6**	GEHRINGDG	EPA 200.8 Drinking Water	HENINAA
Manganese	3/18/2003	03LCS1-90	DW	50.075402	ug/L	50	ug/L	**100.2**	GEHRINGDG	EPA 200.8 Drinking Water	HENINAA

Report ID: HMA0189v1
Work Order No: 7521
Installation: 94th RSC
Officer: 1LT Jennings
Profile: 00V1

Date Report Generated: 3/21/2003 1:25:20 PM
Report Generated By: HENINAA

US Army Center for Health Promotion and Preventive Medicine
Directorate Of Laboratory Sciences (DLS)
Analytical Spectrometry Division-Metals Team

Matrix (Pre-digested) Spike Sample Report

Target	Date	Sample Number	Matrix	Initial Result	Units	Spiked Result	Units	Theoretical Spike Amount	Units	% Recovery	Analyst	Method	Reviewed By
Calcium	3/19/2003	7521002 MS	DW	10.3	mg/L	11.2	mg/L	1	mg/L	**90.0**	GORDONEF	EPA 200.7 Drinking Water	HENINAA
Copper	3/18/2003	7521002 MS	DW	35.053		85.016	ug/L	50	ug/L	**99.9**	GEHRINGDG	EPA 200.8 Drinking Water	HENINAA
Iron	3/19/2003	7521002 MS	DW	3.09	mg/L	3.95	mg/L	1	mg/L	**86.0**	GORDONEF	EPA 200.7 Drinking Water	HENINAA
Lead	3/18/2003	7521002 MS	DW	1.239		51.44	ug/L	50	ug/L	**100.4**	GEHRINGDG	EPA 200.8 Drinking Water	HENINAA
Manganes	3/18/2003	7521002 MS	DW	65.46292	ug/L	120.52978	ug/L	50	ug/L	**110.1**	GEHRINGDG	EPA 200.8 Drinking Water	HENINAA

Report ID: HMA0189v1
Work Order No: 7521
Installation: 94th RSC
Officer: 1LT Jennings
Profile: 00V1

Date Report Generated: 3/21/2003 1:25:19 PM
Report Generated By: HENINAA

US Army Center for Health Promotion and Preventive Medicine
Directorate Of Laboratory Sciences (DLS)
Analytical Spectrometry Division-Metals Team

Duplicate Report

Target	Date	Sample Number	Matrix	Initial Result	Units	Duplicate Result	Units	% RPD	Analyst	Method	Reviewed_By
Calcium	3/19/2003	7521002 MSD	DW	11.2	mg/L	11.3	mg/L	**0.89**	GORDONEF	EPA 200.7 Drinking Water	HENINAA
Copper	3/18/2003	7521002 MSD	DW	83.19	ug/L	85.016	ug/L	**2.17**	GEHRINGDG	EPA 200.8 Drinking Water	HENINAA
Iron	3/19/2003	7521002 MSD	DW	3.95	mg/L	4.02	mg/L	**1.76**	GORDONEF	EPA 200.7 Drinking Water	HENINAA
Lead	3/18/2003	7521002 MSD	DW	50.981	ug/L	51.44	ug/L	**0.90**	GEHRINGDG	EPA 200.8 Drinking Water	HENINAA
Manganese	3/18/2003	7521002 MSD	DW	120.529783	ug/L	117.487969	ug/L	**2.56**	GEHRINGDG	EPA 200.8 Drinking Water	HENINAA

TERMINOLOGY/ABBREVIATIONS

Term	Description
ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CFR	Code of Federal Regulations
NIOSH	National Institute of Occupational Safety and Health

U.S. Army Center for Health Promotion and Preventive Medicine

USCHPPM

FINAL REPORT

DIRECTORATE OF LABORATORY SCIENCES (DLS)
PROGRAM 31 - SUBJONO: 00V1
REPORT SERIAL NO. 139649
DLS PROFILE #: 27662 - WORK ORDER #: 7521
94th RSC

26 MAR 2003

26-Mar-03

Readiness Thru Health

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TERMINOLOGY/ABBREVIATIONS

Term	Description
NVLAP	National Voluntary Laboratory Accreditation Program
ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CFR	Code of Federal Regulations
NIOSH	National Institute of Occupational Safety and Health

SAMPLE SUMMARY

Sorted by Field ID

Field ID	DLS ID	Date Collected	Matrix
CLS-01	7521005	26-Feb-03	Water (Drinking water)
Waterbury #3	7521003	26-Feb-03	Water (Drinking water)
Waterbury #4	7521004	26-Feb-03	Water (Drinking water)

ANALYTICAL DATA REPORT

(FORMAT OPTION 1)
Sorted by Field ID

FINAL REPORT

Field ID: CLS-01 **DLS ID:** 7521005

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Alkalinity, Total	60.0 mg/L CaCO3	2.00	SM 2320	0116	06-Mar-03
Total Dissolved Solids	367 mg/L	25.0	EPA 160.1	0116	21-Mar-03

Field ID: Waterbury #3 **DLS ID:** 7521003

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Alkalinity, Total	28.0 mg/L CaCO3	2.00	SM 2320	0116	06-Mar-03

Field ID: Waterbury #4 **DLS ID:** 7521004

ANALYTE	RESULT/UNITS	METHOD REPORTING LIMIT	ANALYTICAL METHOD	ANALYST	DATE ANALYZED
Total Dissolved Solids	126 mg/L	50.0	EPA 160.1	0116	04-Mar-03

DEPARTMENT OF THE ARMY
U.S. ARMY CENTER FOR HEALTH PROMOTION AND PREVENTIVE MEDICINE
5158 BLACKHAWK ROAD
ABERDEEN PROVING GROUND, MARYLAND 21010-5403

REPLY TO
ATTENTION OF

MCHB- TS-LRD (40-5F)

DIRECTORATE OF LABORATORY SCIENCES (DLS)
RADIOLOGIC, CLASSIC & CLINICAL CHEMISTRY DIVISION
FINAL REPORT
26-Mar-03

CLIENT: 1LT Jennings
94th Regional Support Command
CHPPM-North Bldg 4411
Llewellyn Ave.
Fort George G Meade MD 20755
301-677-3948

PROJECT SITE: 94th RSC
PROGRAM 31 **SUBJONO:** 00V1
DLS PROFILE #: 27662 **DLS WORK ORDER #:** 7521
REPORT SERIAL NUMBER: 139649

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REPORT RELEASE AUTHORIZATION:

Signature: _____ **Date:** 26 March 2003

AIHA Industrial Hygiene ACCREDITED LABORATORY

Certificate# 28.02

DLS HOLDS ACCREDITATION FROM AIHA, A2LA, NLLAP, AND COLA

Readiness thru Health

CASE NARRATIVE

Provided are the results of one water sample submitted from the 94th Regional Support Command (RSC) for classic inorganic analyses. The sample was collected on 26 February 2003 and the sample containers were received by TriMatrix Laboratories, Inc. (TML) intact and in good condition on 03 March 2003. The Classic Chemistry Team (CLS) does not currently perform Total Alkalinity or Total Dissolved Solids (TDS) analyses in house, therefore the samples were sent to TML.

SAMPLE PREPARATION:

1. Samples were analyzed under specified methods with no additional preparation. See sample analysis section for methods used.

SAMPLE ANALYSIS:

1. These analyses were performed, under contract, by TriMatrix Laboratories, Inc. (TML).

2. The samples were analyzed on 04 and 06 March 2003. The reanalysis of the TDS blind control was performed on 21 March 2003. See quality control section # 3 below for more details concerning the reanalysis.

3. All holding times were met.

4. Total Alkalinity was analyzed using the Standard Methods SM 2320 method and Total Dissolved Solids (TDS) was analyzed using the EPA 160.1 method.

QUALITY CONTROL:

1. A laboratory control sample (LCS), sample matrix duplicate (DUP) and sample matrix spike (SPK) were analyzed with the batch of samples for each parameter.

2. All quality control data were within acceptable limits, with the exception listed in # 3 below.

3. The Classic Chemistry Team (CLS) inserted a blind quality control sample, DLS # 7521004, Field # CLS-01, for Total Alkalinity and TDS with this project. The percent recovery for the Total Alkalinity control sample was 100.35 % and well within the CLS acceptable limits. The percent recovery for the TDS control sample was 76.83 % and outside the CLS acceptable limits. CLS requested that TML reanalyze the TDS control sample and DLS # 7521005, Field # Waterbury # 4. The values of the reanalyzed samples were within CLS acceptable limits. The TDS control sample recovery was 107.62%. The DLS # 7521004, Field # Waterbury # 4 was reanalyzed over the holding time and the value was 118 mg/L, which gave a RPD of 6.56 % when compared to the original result. The original value of 126 mg/L for DLS # 7521004, Field # Waterbury # 4, was reported.

List of the report contents:

Section	Number of Pages
Cover Sheet	1
Cover Letter	1
Case Narrative	2
Sample Summary	1
Analytical Data Report	1
Quality Control Data Report	0
Raw Data	0
Terminology/Abbreviations	1

Report Point-of-Contact: Mary Jo George *Mary Jo George*
Reviewer: MJG *MJG*

List of all tests used:

DLS Procedure	Count
EPA 160.1	2
SM 2320	2

Number of samples included in the report, by matrix:

Matrix	Quantity
Water (Drinking water)	3

Analyst(s):

Analyst Code	Analyst Name	Signature
0116	TML	

U.S. ARMY CENTER FOR HEALTHROMOTION AND PREVENTATIVE MEDICINE
DIRECTORATE OF LABORATORY SCIENCES
INSTALLATION: 94TH RSC
PROJECT: PROGRAM 31--31
PO#040DO#1

SDG: 36252-2

MARCH 19, 2003

Submitted by:

TriMatrix Laboratories, Inc.

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SDG CASE NARRATIVE
Level 5 Analysis

U.S. ARMY CENTER FOR HEALTH PROMOTION
AND PREVENTATIVE MEDICINE
DIRECTORATE OF LABORATORY SCIENCES
INSTALLATION: 94TH RSC
PROJECT: PROGRAM 31--31
PO#040DO#1
MARCH 19, 2003

This case narrative is applicable to all samples received March 1, 2003 at Trimatrix laboratory sample numbers were assigned as follows:

Submittal (SDG) Number: 36252-2
Submittal Description: February 26, 2003 Samples

Laboratory Sample Number(s)	USACHPPM Sample Identification:		Matrix
325681	7521003	Waterbury #3	Drinking Water
325682	7521004	Waterbury #4	Drinking Water
325683	7521005	CLS-01	Drinking Water

Sample Receipt

On March 3, 2003 at 09:05 AM, a Sample Delivery Group (SDG) containing a total of three (3) drinking water samples was received via Federal Express directly from the USACHPPM laboratory, Aberdeen Proving Grounds, Maryland. All samples and containers were received intact and in good condition.

Shipping documents included a Pick-up/Work/Delivery Order and a Federal Express air bills. The receipt temperature of the samples was determined by recording 3 random temperature readings of the sample(s) of varying container types, using an infrared thermometer. The average temperature for this sample was at 2°C.

QA/QC / Technical Issues or Problems

QA/QC or technical problems encountered during the analysis of this SDG are summarized as follows:

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36252- 2

STATEMENT OF DATA QUALIFICATIONS

All analyses have been validated and comply with our Quality Control Program. No qualifications required.

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

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In addition to the location of information, the following is a list of QA/QC types utilized by TriMatrix Laboratories, and our in-house type designations.

Method QC:

MPB Method Preparation Blank
BLK Daily Instrument Blank
LFB Laboratory Fortified Blank
LCS Laboratory Control Sample
IEC ICP Interference Check Sample
CRL Contract Required Detection Limit Standard
ICB Initial Calibration Blank
ICV Initial Calibration Verification
CCB Continuing Calibration Blank
CCV Continuing Calibration Verification

Matrix QC:

SPK Sample Matrix Spike
MSD Sample Matrix Spike Duplicate
DUP Sample Matrix Duplicate
SUR Sample Matrix Surrogate
PDS Post Digestion Spike

3 19 13

Jennifer L. Rice – Project Chemist

P040D1.DOC

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TABLE OF CONTENTS
LEVEL 5 DELIVERABLES

U.S. ARMY CENTER FOR HEALTH PROMOTION
AND PREVENTATIVE MEDICINE
DIRECTORATE OF LABORATORY SCIENCES
INSTALLATION: 94TH RSC
PROJECT: PROGRAM 31--31
PO#040DO#1
MARCH 19, 2003

SDG: 36252-2

Section I.D.	Description	Pages:
A	Field/Internal COC Records, Air Bill	1-11
B	Inorganic Data	12-31
C	Preparation Logs	32-35
D	Method Pages	36-37

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SECTION - B

SAMPLE RESULT SUMMARIES

INORGANICS DATA

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ANALYTICAL REPORT

U.S. ARMY CHPPM

Project: Installation: 94th RSC
Program 31--31
Submittal: February 26, 2003 Samples

Submittal #: **36252-2**
Sampled: 02/26/03 @ 08:43
Sampler:
Received: 03/01/03 @ 09:05

Sample #: **325681**
Sample ID: **7521003**
Waterbury
#3
Matrix: Drinking Water

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Total	28	2.0	mg/L	03/06/03	VAS	SDM 2320

000017

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

U.S. ARMY CHPPM

Project: Installation: 94th RSC
Program 31--31
Submittal: February 26, 2003 Samples

Submittal #: **36252-2**
Sampled: 02/26/03 @ 08:45
Sampler:
Received: 03/01/03 @ 09:05

Sample #: **325682**
Sample ID: **7521004**
Waterbury
#4
Matrix: Drinking Water

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
Residue,Dissolved @ 180*C	126	50	mg/L	03/04/03	INR	160.1/SM 2540 C

000014

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

U.S. ARMY CHPPM
Project: Installation: 94th RSC
Program 31--31
Submittal: February 26, 2003 Samples

Submittal #: **36252-2**
Sampled: 02/26/03 @ 08:45
Sampler:
Received: 03/01/03 @ 09:05

Sample #: **325683**
Sample ID: **7521005**
CLS-01

Matrix: Drinking Water

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
Residue,Dissolved @ 180*C	262	50	mg/L	03/04/03	INR	160.1/SM 2540 C
Alkalinity, Total	60	2.0	mg/L	03/06/03	VAS	SDM 2320

End of Analytical Report

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SECTION - B

QUALITY CONTROL SUMMARIES

INORGANICS DATA

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QUALITY CONTROL REPORT
INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICV-CCV)
USEPA CLP FORM 2A

SDG No.	36252 -2	Parameter	Alkalinity, Total
Batch No.	197672		
Instrument ID	187	Ref. Cit.	310.1/SM 2320 B
		Matrix	WATER
		Units	mg/L

Verification QC Type	True Value	Amount Found	% Recovery	Acceptance Window-%	Date	Analyst
ICV 1	7.00	6.98	100	85 - 115	03/06/03	VAS
CCV 1	7.00	7.02	100	85 - 115	03/06/03	VAS

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QUALITY CONTROL REPORT
BLANKS
USEPA CLP FORM 3

SDG No. 36252 -2 Parameter Alkalinity, Total
Instrument ID 187

Batch Number	Blank Type	Amount Found	Quant. Limit	Reference Citation	Matrix	Units
197672	BLK 1	<2.0	2.0	310.1/SM 2320 B	WATER	mg/L

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QUALITY CONTROL REPORT
BLANKS
USEPA CLP FORM 3

SDG No. 36252 -2 Parameter Residue,Dissolved @ 180*C
Instrument ID 210

Batch Number	Blank Type	Amount Found	Quant. Limit	Reference Citation	Matrix	Units
197620	BLK 1	<2.5	2.5	160.1/SM 2540 C	WATER	mg/L

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QUALITY CONTROL REPORT
SPIKE SAMPLE RECOVERY
USEPA CLP FORM 5A

SDG No.	36252 -2	Matrix	DWTR
		Lab Sample No.	325681
Sample ID.	7521003Waterbury#3	Units	mg/L

Analyte	Control Limit %R	Spiked Sample Result	Sample Result	Spike Added	%R	M
Alkalinity, Total	86 - 110	276	28	238	104	

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QUALITY CONTROL REPORT
SAMPLE DUPLICATE
USEPA CLP FORM 6

SDG No.	36252 -2	Matrix	DWTR
		Lab Sample No.	325681
Sample ID.	7521003Waterbury#3	Units	mg/L

Analyte	Control Limit	Sample Result	Duplicate Result	RPD	M
Alkalinity, Total	0 - 20	28	30	7	

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TriMatrix Laboratories, Inc.

QUALITY CONTROL REPORT
LABORATORY CONTROL SAMPLE
USEPA CLP FORM 7

SDG No. 36252 -2 Units mg/L

Analyte	Batch	True Value	Amount Found	Control Limit	%R
Alkalinity, Total	197672	238	248	92 - 105	104
Residue,Dissolved @ 180*C	197620	303.7	281	90 - 108	93

000022

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APPENDIX B

LSI CALCULATIONS

	Using Lab Data	Using Benchtop Data
$LSI=pH-pH_s$	**1.26**	**1.27**
$pH_s= (9.3+A+B)-(C+D)$		
$A=(Log_{10}[TDS]-1)/10$	0.110037	0.085003
$B=-13.12*Log_{10}(^{o}C+273)+34.55$	2.372504	2.372504
$C=Log_{10}[Ca^{+2}$ as $CaCO_3]-0.4$	0.612837	0.612837
$D=Log_{10}$[alkalinity as $CaCO_3$]	1.447158	1.439333

APPENDIX C
TREATMENT DEVICES

Provider & Phone Number	Model	System Type	Price ($)
E-watertechnologies (760)476-0188	Pyrolox-10 Pyrolox-9	Whole-House Whole-House	1395.00 1295.00
Home Water Purifiers and Filters	WH5 Iron Filter w/20 inch Housing	Whole-House	219.95
Pure Water Products (940)382-3814	Model 77 w/filter PWCEN 1.5	Counter-Top	77.00

U.S. ARMY RESERVE
STORMWATER-POLLUTION PREVENTION PLAN
(SWP3)

Paul J. Sutcovoy U.S. Army Reserve Center
Waterbury, Connecticut
CT010

Drafted by

U.S. GEOLOGICAL SURVEY
Water Resources Division
Connecticut District

for

94th REGIONAL SUPPORT COMMAND
Devens, Massachusetts

09/27/99

SWP3 Certification [GP-014 Section 5(j)]
"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: Gary W. Puryear
Title: Environmental Manager
Telephone numbers: (978) 796-2238

Acronyms and Abbreviations	
AMSA	Area Maintenance Support Activity
BMP	Best Management Practice
CFR	Code of Federal Regulations
CTDEP	Connecticut Department of Environmental Protection
DCSOPS (T)	Deputy Chief of Staff, Operations (Training Division)
DEP	Department of Environmental Protection
GP	General Permit
HMMWV	High Mobility Multi-purpose Wheeled Vehicle
HWGP	Hazardous-Waste Generation Point
ISCP	Installation Spill Contingency Plan
MEP	Military Equipment Park
MSDS	Material Safety Data Sheet
NPDES	National Pollutant Discharge Elimination System
NSWD	Non-stormwater Discharge
OF	Outfall
OMS	Organizational Maintenance Shop
POL	Petroleum, Oil, and Lubricants
POV	Privately Owned Vehicle
PPM	Potentially Polluting Material
PPT	Pollution Prevention Team
RSC	94th Regional Support Command, Devens, Massachusetts
SOP	Standard Operating Procedure
SWP3	Stormwater-Pollution Prevention Plan
USARC	United States Army Reserve Center
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UST	Underground-Storage Tank

TABLE OF CONTENTS

1.0 INTRODUCTION
- 1.1 Facility Permit
- 1.2 Facility Description
- 1.3 Plan Development
- 1.4 Plan Revisions

2.0 POLLUTION-PREVENTION TEAM

3.0 ASSESSMENT
- 3.1 Site Map
- 3.2 Drainage
- 3.3 Structures
- 3.4 Potentially Polluting Materials
- 3.5 Potential Sources of Pollutants
- 3.6 Significant Spills and Leaks
- 3.7 Non-Stormwater Discharges
- 3.8 Stormwater-Monitoring Data
- 3.9 Risk Summary

4.0 BEST MANAGEMENT PRACTICES PLAN
- 4.1 Baseline Best Management Practices
  - 4.1.1 Good Housekeeping
  - 4.1.2 Preventive Maintenance
  - 4.1.3 Spill Prevention and Response
  - 4.1.4 Visual Inspections
  - 4.1.5 Sediment and Erosion Control
  - 4.1.6 Environmental Training
- 4.2 Advanced Best Management Practices

5.0 IMPLEMENTATION
- 5.1 Stormwater-Log Sheet and -Inspection Checklist
- 5.2 Annual Compliance Inspection

6.0 APPENDIX

1.0 INTRODUCTION

The Clean Water Act of 1987 [40 Code of Federal Regulations (CFR) 122] requires Federal installations that discharge stormwater whose quality may be affected by industrial activities to implement plans to control the quality of stormwater discharges. This "*Stormwater-Pollution Prevention Plan*" (SWP3) was developed in response to these requirements. The plan identifies sources of potential pollution, describes "*Best Management Practices*" (BMPs) designed to minimize pollution through prevention and source control, and recommends actions for this facility. The SWP3 also discusses stormwater-runoff drainage, identifies point-source outfalls into local surface waters, and provides non-stormwater discharge certification of stormwater outfalls.

1.1 FACILITY PERMIT

The State of Connecticut, in which this facility is located, has National Pollutant Discharge Elimination System (NPDES) permitting authority. The State has two General Permits (GPs) for stormwater dischargers, one for the discharge of stormwater associated with industrial activity and the other for stormwater runoff and dewatering wastewater discharges from construction sites. Stormwater permitting in the State is administered by the Department of Environmental Protection (DEP), Water Management Bureau, Hartford, Connecticut (Stormwater Permit Manual, Thompson Publishing Group Inc., written commun., January 1995). The DEP representative is Chris Stone (860) 424-3850.

1.2 FACILITY DESCRIPTION

The Paul J. Sutcovoy U.S. Army Reserve Center (USARC), and Organizational Maintenance Shop (OMS) are located on Lydia Street Extension in Waterbury, Connecticut (*PLATES 1 & 2*). DEP-regulated activities, including the OMS and the Military Equipment Park (MEP), encompass about 7.9 acres at an approximate elevation of 50 feet above mean sea level (figure 1.2). Geographic coordinates for the facility are latitude 41° 32′ 53″ North and longitude 73° 01′ 01″ West.

The 2nd Battalion 417th Regiment of the 98th Division, a drill sergeant unit providing basic training to recruits operates the facility. Companies A & B of the 2nd Battalion as well as Company B of the 325th Military Intelligence Battalion also maintain their administrative offices at this location.

The OMS at the Paul J. Sutcovoy USARC has been inactive for many years and no vehicle maintenance of any type is performed on site. The Area Maintenance Support Activity (AMSA) 69 shop in Milford, Connecticut performs all necessary maintenance of the few military vehicles stored on site.

The Military Equipment Park (MEP) at this facility is not a separate isolated enclosure. Military vehicles, consisting of one 2½-ton cargo unit, one pick-up truck, one blazer, two utility body pick-up trucks, and four High Mobility Multi-purpose Wheeled Vehicles (HMMWVs), are stored at the eastern portion of the primary Privately Owned Vehicle (POV) paved parking area (figure 3.1).

1.3 PLAN DEVELOPMENT

This plan was drafted by the U.S. Geological Survey (USGS), Water Resources Division. Information and illustrations included in the plan were developed from site inspections and from the 94th Regional Support Command (RSC) and USGS databases.

1.4 PLAN REVISIONS

The SWP3 should be updated annually or more often, if required. Many elements of the plan are presented in maps and tables describing (i) sites where potential pollution of stormwater might occur, (ii) stormwater-pollution risks from those sites to surface waters of the State, and (iii) BMPs that prevent or control stormwater

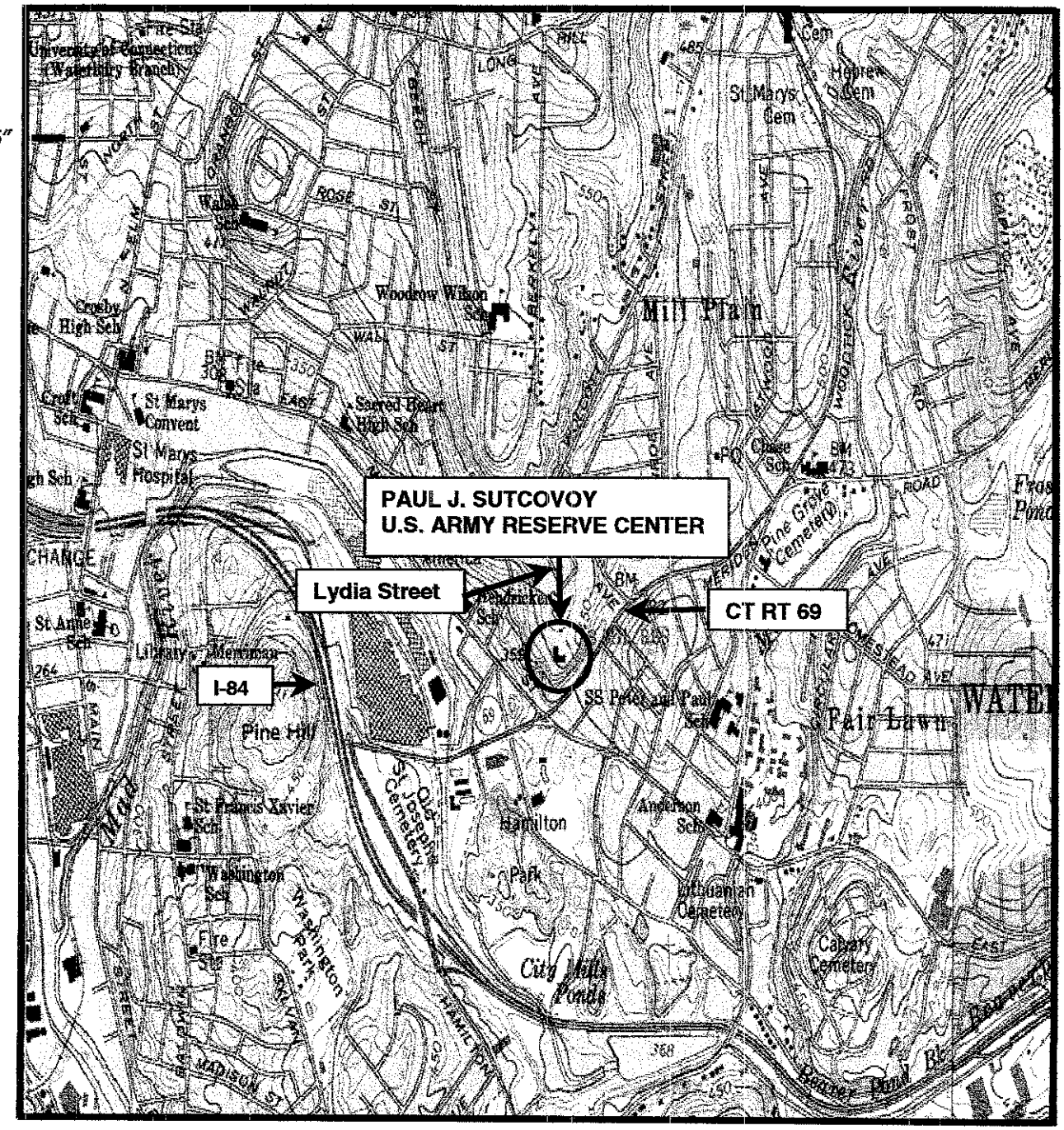
pollution. Detailed notes and sketches should be made during periodic stormwater inspections to facilitate the annual plan revision.

1.0 Introduction...*continued*

Figure 1.2--Location Map (source: USGS).

73° 00′ 26″

41° 33′ 35″



2.0 POLLUTION-PREVENTION TEAM [GP-014.Section 5(b)(6)(A)]

The Pollution-Prevention Team (PPT) is responsible for implementing and evaluating the effectiveness of the SWP3 at this facility. Personnel should be officially appointed to the team. Table 2.0 lists the members of the PPT and shows their respective duties. Additional members may be appointed to the PPT as needed.

Table 2.0—Pollution-Prevention Team Members and Duties.

Team member	Duties
94th Regional Support Command - Chief Environmental Division (978) 796-2238	• Reviews and approves the SWP3 and any modifications or updates to the plan in coordination with State and Federal regulators. • Provides guidance and information as requested. • Performs annual site compliance inspection.
Regional Facility Manager (Connecticut) (860) 231-2085	• Reviews and approves the SWP3 and any modifications or updates to the plan.
Paul J. Sutcovoy USARC Facility Coordinator (203) 753-2334	• Implements the stormwater-pollution prevention program at the facility. • Schedules meetings of the PPT. • Signs documents and certificates required in the SWP3. • 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 backup emergency-response spill coordinator for the facility. • Informs Commanding Officer and 94th RSC of problems and equipment and training needs.
Paul J. Sutcovoy USARC Motor Sergeant (None at this facility)	• Assists Facility Coordinator with implementation of the SWP3 at the facility, including plans for equipment, construction, and training. • Serves as official emergency-response spill coordinator for the facility. • Conducts monthly stormwater inspections and files inspection reports. • Inspects hazardous material and waste-storage areas, updates records on those areas, monitors waste generation, and monitors the transfer of such materials among units. • Ensures that OMS personnel implement good housekeeping, preventive-maintenance, and spill-prevention practices at the motor pool.

3.0 ASSESSMENT [GP-014.Section 5(b)(6)(B)]

As required by the Connecticut General Permit for the Discharge of Stormwater Associated with Industrial Activity, the site assessment includes a description of potential sources of pollutants that may affect stormwater discharges or which may cause the discharge of pollutants during dry weather from the facility. All activities and materials that may be potential 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 SITE MAP [GP-014.Section 5(b)(6)(B)(i)1]

The Connecticut DEP 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 the directions of stormwater runoff. The site map (figure 3.1) shows primary stormwater-runoff directions, outfalls, and the location of buildings and facilities. Stormwater-control structures, pollutant sources, and areas at high risk for pollution are labeled with site map codes.

3.2 DRAINAGE [GP-014.Section 5(b)(6)(B)(i)]

Stormwater at the Paul J. Sutcovoy USARC is directed into six storm drains located throughout the site and a grass drainage swale at the northern end of the paved POV and MEP parking. Stormwater also flows from pavement onto lawn areas as overland flow. The storm drains direct flow through a stormwater-sewer system which exits the site at the southeast corner. Stormwater from this system routs flow into an underground sixty-inch box culvert carrying Carrington Brook, which runs south under Hamilton Park, discharging into the Mad River (oral commun., Waterbury Engineering Department, August 1999).

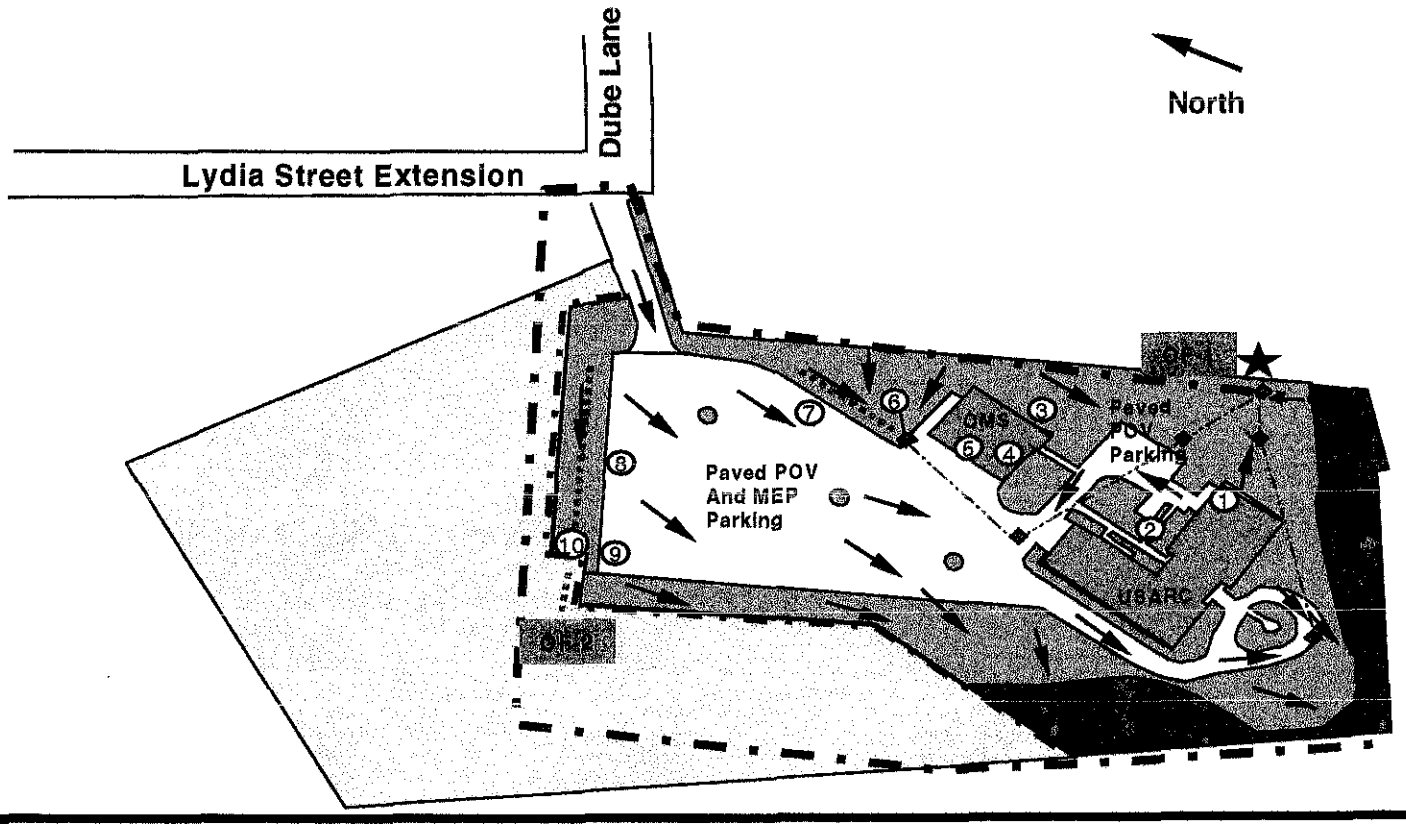
Site observation of the Paul J. Sutcovoy USARC property identified one stormwater outfall (**OF-1**) that could be subject to Connecticut DEP stormwater regulations (*PLATE 17*), and one outfall (**OF-2**), not subject to stormwater regulations (*PLATE 18*).

Outfall **OF-1** (figure 3.1, *PLATE 17*) is located in the southeast corner of the site. Six storm drains (one shown in *PLATE 15*), direct storm water to this outfall. This outfall drains the MEP parking area (**site 7**, *PLATE 3*) and the front of the OMS, a potential hazardous materials loading/unloading area. One of the storm drains leading to **OF-1**, (**site 6**, *PLATE 15*) is located in very close proximity to the MEP.

Outfall **OF-2** is located at the northwest corner of the site at the end of a grass drainage swale (figure 3.1, *PLATE 18*).

Some stormwater runoff from the paved POV and MEP flows onto lawn and wooded areas along the western side of the site where it infiltrates the ground and/or exits the site as overland flow (figure 3.1). A recommended BMP is to add curbing to the parking area to channel stormwater into the stormwater sewer system.

3.0 Assessment...*continued*



SITE MAP CODE GUIDE

1-Spill supplies
2-UST concrete pad
3-UST concrete pad; 55-gallon drum Labeled hazardous waste
4-Grease pit
5-Spill supplies
6-Storm drain
7-Military vehicle parking area
8-POL staining
9-POL shed, fuel cans
10- Concrete drain pipe

KEY

Stormwater Runoff
Security Fence
Drainage Swale
Regulated Outfall
Unregulated Outfall
Storm-sewer System
Storm Drain
Grass island, lot lighting
Grass
Paved
Building
Shrub
Wooded

Figure 3.1—Paul J. Sutcovoy USARC Site Map

Not to scale 08/06/99

Drafted by Remo A. Mondazzi, Hydrologist

Reviewed by Emitt C. Witt, Supervisory Hydrologist

3.0 Assessment...*continued*

3.3 STRUCTURES [GP-014. Section 5(b)(6)(B)(i)1]

Stormwater runoff from the Paul J. Sutcovoy USARC flows into six storm drains (*one shown in PLATE 15*), which direct flow into the storm-sewer system within the facility leading to outfall **OF-1**. A twelve-inch concrete pipe (**OF-2,** *PLATE 18*) directs flow under a security fence, discharging onto USARC owned shrub-covered land where it infiltrates the ground or exits the site as overland flow during heavy rainfall events. Floor drains in the furnace room direct flow to the sanitary-sewer system.

A below ground grease pit was observed inside the OMS. The pit has temporary cover and is currently unused, (*PLATE 7*).

There are no oil/water separators at this facility

3.4 POTENTIALLY POLLUTING MATERIALS [GP-014.Section 5(b)(6)(B)(i)]

Exposed PPMs include any hazardous materials that contact precipitation and/or stormwater runoff (i.e., during storage, active use, or loading/unloading). A lack of cover and containment during loading/unloading or storage of PPMs commonly causes exposure to stormwater runoff. The hazardous-materials inventory at the facility was not current at the time of the site assessment. An electronic copy of the PPM inventory, in spreadsheet format, will be provided to the facility as part of this assessment. The inventory should be continuously updated and include the locations of the materials and approximate quantities on hand.

3.5 POTENTIAL SOURCES OF POLLUTANTS [GP-014.Section 5(b)(6)(B)(ii)]

An inventory of areas at Paul J. Sutcovoy USARC where industrial activities could potentially pollute stormwater runoff was compiled from facility plans, staff interviews, and field reconnaissance. All pollutant sources at the USARC are directly related to vehicle storage; loading and unloading of PPMs; and exposed temporarily or permanently stored PPMs. The use of PPMs and generation of waste products are results of past vehicle maintenance and facility heating requirements. No significant vehicle fueling is conducted onsite.

Most new PPMs previously used for maintenance operations at the facility are stored in the outdoor double-floored Petroleum Oil Lubricant (POL) shed on the paved POV and MEP parking area (**site 9**, *PLATES 9 & 10*). Materials stored at this location are fully protected from precipitation and stormwater runoff during storage.

Paul J. Sutcovoy USARC is considered to be a conditionally exempt, small-quantity hazardous waste generator by the Connecticut DEP and has been issued the generation number (CVS024248900). The OMS is currently not used for vehicle maintenance so hazardous wastes related to such activities are not generated at this facility at the present time. One 1,000-gallon and one 10,000-gallon Underground-Storage Tanks (USTs) are used for storage of number 2 fuel oil, which is used to heat the OMS and USARC buildings (**sites 3 & 2**, *PLATES 13 & 14 respectively*).

Primary loading and unloading areas are the POL storage shed, and heating-oil USTs.

3.6 SIGNIFICANT SPILLS AND LEAKS [GP-014.Section 5(b)(6)(B)(iii)]

There have not been any significant (reportable) spills or leaks during the last three years at Paul J. Sutcovoy USARC.

3.0 Assessment...*continued*

3.7 NON-STORMWATER DISCHARGES [GP-014.Section 5(b)(6)(C)(viii)]

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. Sources of unauthorized NSWDs must be identified and permitted, or eliminated, except for flows in compliance with another NPDES permit. Stormwater-pollution prevention measures should be adopted and implemented where necessary to minimize pollutants in these discharges.

Outfall **OF-1** was observed for NSWDs on August 5, 1999, as part of the Paul J. Sutcovoy USARC site assessment conducted by the USGS. Dry-weather discharge was not observed at this outfall. A NSWD certification is provided in the Appendix (table 6.0). The Facility Coordinator must sign the certification [GP-014.Section 5(b)(7)].

3.8 STORMWATER-MONITORING DATA [GP-014.Section 5(c)]

There are not any current plans to collect stormwater-quality data at Paul J. Sutcovoy USARC and stormwater quality data is not available for this facility. Sampling of stormwater, if required, should be conducted at regulated outfalls as mandated by the Connecticut DEP. Stormwater sampling and analysis must be performed by qualified individuals adhering to a specific quality assurance/quality control program. Stormwater monitoring currently is not required for vehicle-maintenance activities in U.S. Environmental Protection Agency (USEPA) regulated states and most states with NPDES permitting authority, like Connecticut.

3.9 RISK SUMMARY [GP-014.Section 5(b)(6)(C)(vi)]

An initial assessment of areas at Paul J. Sutcovoy USARC with a potential for pollution from stormwater runoff 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 August 5, 1999 site assessment. Sites identified as having a potential for stormwater pollution are listed in Table 3.9. Locations of these sites are shown in Figure 3.1.

ORGANIZATIONAL MAINTENANCE SHOP

No vehicle maintenance is conducted inside the OMS at the Paul J. Sutcovoy USARC. The building is used for storage of equipment and supplies (*PLATES 5 & 6*). Spill response supplies were observed inside the OMS (**site 5**, *PLATE 8*). All military vehicle and equipment maintenance is performed by AMSA 69 in Milford, Connecticut. A grease pit was observed inside the OMS (**site 4**, *PLATE 7*). The pit is unused and temporary cover has been installed. The pit poses no risk to surface waters of the State of Connecticut at this time.

Most PPMs previously used at the shop are temporarily stored in the POL shed located on the paved POV and MEP parking area (**site 9,** *PLATES 9 & 10*). PPMs stored inside the POL shed are not fully protected from precipitation due to an unsecured pressure-relief door (*PLATE 9*). The potential exists for PPMs in the shed to become stormwater pollutants during storage. It is recommended all PPMs inside the POL shed are removed from the site. The hazardous-materials inventory was not current at the time of the assessment. It is recommended that the chemical inventory be updated or verified monthly with the quantity and location of PPMs in the facility.

A 1,000-gallon UST for storing fuel oil used for heating the OMS is located behind the building (**site 3**, *PLATE 13*). A 55-gallon drum labeled hazardous waste, containing tank bottom water, was observed at the UST location (**site 3**, *PLATE 13*). It is recommended the drum be relocated to the POL shed while awaiting proper

3.0 Assessment...*continued*

disposal, and spill containment equipment necessary to contain spills of fuel oil during tank filling operations be located near the fill pipe to decrease response time in case of accidental spills. The facility also contains a 10,000-gallon UST for fuel oil storage used for heating the USARC building (**site 2**, *PLATE 14*). Spill response supplies were observed inside the building near the overhead door (**site 1**, *PLATE 12*). It is recommended that these supplies be relocated outdoors for the same reasons as previously noted.

An Installation Spill Contingency Plan (ISCP) exists for the facility but does not contain current revisions according to RSC personnel. It is recommended the ISCP be updated.

The OMS poses a low risk to surface waters of the State of Connecticut. PPMs are not used or stored inside the shop and hazardous waste is not generated. Spill-response supplies are located inside the building. The most significant threat to stormwater from this area is a potential accidental spill of fuel oil behind the OMS during tank filling operations.

MILITARY EQUIPMENT PARK

The Military Equipment Park at Paul J. Sutcovoy USARC is an area near the OMS in the combination POV and MEP parking lot (**site 7**, *PLATE 4*). This parking area is used for storage of military vehicles assigned to the units residing at the facility. Nine vehicles are currently stored on site, one 2½-ton cargo truck, one blazer, one pick-up truck, two utility body pick-up trucks, and 4 HMMWVs. The most significant threat to stormwater from this area is potential POL spills/leaks from the stored military vehicles.

The MEP is located very close to a storm drain (**site 6**, *PLATE 15*). POL spills/leaks from military vehicles have the potential to quickly enter the stormwater-drainage system. It is recommended the MEP be relocated to another area not in such close proximity to a storm drain.

A single-door POL shed used as a PPM storage area is at the northwest corner of the combination POV and MEP parking lot (**site 9**, *PLATE 9*). POL sheds protect stored chemicals from exposure to precipitation and stormwater runoff. However, PPMs have the potential to become stormwater pollutants, as they are being loaded/unloaded at the shed doors. The area outside the POL shed drains to the southwest by way of graded pavement (figure 3.1). An observed BMP is the spill containment floor in the PPM storage area. Facility staff should ensure that regular visual inspections are conducted in these chemical storage areas to identify potential problems. A recommended BMP is the reallocation of some of the existing spill supplies to the area near the POL shed, so that these supplies will be readily accessible during an outdoor spill emergency. The outdoor location of spill-response equipment will improve the response time for spill containment in the MEP.

No outdoor scrap piles were observed during the site visit.

Minor POL spills/leaks were observed under the vehicles in the MEP. However, a large stain was observed in one location on the pavement east of the POL shed near one isolated military vehicle (**site 8**, *PLATE 16*).

Drip pans were not observed under any military vehicles. Ten percent of the number of vehicles onsite should have drip pans, therefore 1 drip pan is adequate for this facility. Vehicles and equipment should receive a walk-around inspection for leaks daily. It is recommended that USARC personnel become familiar with the sections of this document describing the visual and technical inspection programs.

The MEP poses a moderate risk to surface waters of the State of Connecticut from potential leaks from military vehicles, due to the close proximity to a storm drain.

3.0 Assessment...*continued*

PETROLEUM, OIL, AND LUBRICANTS SHED

A single-door POL shed was observed in the northwest corner of the combination POV and MEP parking area (**site 9**, *PLATES 9 & 10*). The shed is used for storage of all PPMs. Some of the containers in the shed are severely rusted and others contain materials related to former vehicle maintenance operations, indicating long-term storage. The rear pressure-relief door was open exposing the shed contents to precipitation. Three plastic fuel containers, two empty and one containing product, were observed next to the shed (**site 9**, *PLATE 11*). The container holding product has an attached open funnel. It is recommended that any unneeded materials in the shed be properly disposed of as soon as possible, the fuel containers outside the shed are relocated inside the shed, and the pressure-relief door be properly secured. A good BMP would be to maintain a binder with updated Material Safety Data Sheets (MSDSs) in PPM storage areas.

The POL shed poses a high risk to surface waters of the State of Connecticut. The shed is equipped with a spill containment floor but the pressure-relief door is unsecured (*PLATE 10*). The potential exists for precipitation entering the shed through the open pressure-relief door to exceed the retention capacity of the floor and for PPMs to spill out onto the paved surface around the shed resulting in direct exposure to precipitation and stormwater runoff.

3.0 Assessment...*continued*

Table 3.9--Risk summary.

Site map code	Location	Regulated activity	Potentially polluting materials	Outfall / Receiving waters	Exposure type[1]	Rating / Reason[2]
2	Behind USARC	PPM storage, loading	Fuel oil	OF-1 / Carrington Brook	E	Moderate / h, e
3	Behind OMS	PPM storage, loading	Fuel oil	OF-1 / Carrington Brook	E	Moderate / h, e
7	POV / MEP	Vehicle parking	POL leaks	OF-1 / Carrington Brook	H	High / a, c, e, f
9	POV / MEP	PPM storage	New POL, PPM	OF-1, OF-2 / Carrington Brook	B, D, H	High / c, d, e
Boiler room	USARC	PPM usage	Fuel oil	None / Sanitary sewer	A	Low / g

[1]**Exposure type:**

A No exposure to precipitation or stormwater runoff
B Direct exposure to precipitation due to lack of covering during storage
C Direct exposure to stormwater runoff due to lack of containment during storage
D Some indirect exposure to precipitation due to a lack of walls
E Direct exposure to precipitation and runoff due to spills/leaks during material transfer
F Direct exposure of washrack drainage devices to storm runoff due to lack of cover
G Indirect exposure to precipitation over top of structure
H Direct exposure to precipitation and runoff due to spills/leaks during storage

[2]**Rating/Reason key:**

a Lack of preventive maintenance and visual inspection program
b Lack of containment, preventing exposure to stormwater runoff
c Lack of covering, preventing exposure to precipitation
d Lack of employee training and/or awareness
e Lack of spill kits, drip pans, sorbent, and/or other spill equipment
f Proximity to floor or storm drain inlet or other conveyance
g Not a point-source discharge to surface waters of the State
h Potential for spills/leaks to exposed areas during material transfer
i Not regulated industrial activity

4.0 BEST MANAGEMENT PRACTICES PLAN [GP-014.Section 5(b)(6)(C)]

Best Management Practices are measures and controls that can reduce potential stormwater pollution from industrial-activity pollutant sources. These BMPs are classified as "*baseline*" or "*advanced*" and they may be either inexpensive or costly to implement. Baseline BMPs include inspection programs and a contingency plan that attempts 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 are established for a BMPs program at Paul J. Sutcovoy USARC. Baseline and advanced BMPs necessary for the implementation of the facility stormwater program are discussed and listed in Table 4.0. The stormwater inspection checklist in section 5.0 (table 5.1b) should be used to monitor potential problems and to select BMPs.

4.1 BASELINE BEST MANAGEMENT PRACTICES

Baseline BMPs are relatively simple inspection programs and contingency plans that are implemented at a facility. The Motor Sergeant will perform monthly stormwater inspections. The 94th RSC is responsible for updating the spill plan, ensuring that motor pool 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 5.1b.

4.1.1 Good Housekeeping [GP-014.Section 5(b)(6)(C)(i)]

Good housekeeping addresses cleanliness and orderliness of work and storage areas. Practicality guides the appropriate implementation of good-housekeeping practices.

4.1.2 Preventive Maintenance [GP-014.Section 5(b)(6)(C)(v)]

Preventive maintenance involves an inspection of all vehicles and equipment for conditions that could lead to leaks or spills of PPMs. A technical inspection for fluid leaks or drips should be done for all incoming vehicles and equipment. Vehicles and equipment stored at the facility should be inspected daily for fluid leaks and drips. Maintenance equipment, oil/water separators (when present), storage tanks and drums, pipes, and pumps should be included in the technical inspection.

4.1.3 Spill Prevention and Response [GP-014.Section 5(b)(6)(C)(vi)]

The facility spill plan should be reviewed and revised by the 94th RSC for Paul J. Sutcovoy USARC. The Motor Sergeant has the responsibility to serve as emergency coordinator in the event of a spill. The Facility Coordinator should be designated as emergency-response spill coordinator at the facility when the Motor Sergeant is not present. The Motor Sergeant (or alternate) has the responsibility to ensure the spill is immediately contained, proper spill reporting procedures are followed, and the 94th RSC is immediately informed.

4.0 Best Management Practices Plan...*continued*

4.1.4 Visual Inspections [GP-014.Section 5(b)(6)(D)(i)]

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 Motor Sergeant should conduct a monthly visual inspection of the motor pool using the stormwater-inspection checklist. The 94th RSC should perform annual compliance inspections using the stormwater-inspection checklist.

4.1.5 Sediment and Erosion Control [GP-014.Section 5(b)(6)(C)(iv)]

The Connecticut DEP General Permit requires identification of areas having a high potential for significant soil erosion and selection of measures (BMPs) to mitigate soil loss. No areas of significant soil erosion were observed at the Paul J. Sutcovoy USARC.

4.1.6 Environmental Training [GP-014.Section 5(b)(6)(C)(vii)]

Headquarters, U.S. Army Reserve Command has developed a video-based stormwater-training package. Annual stormwater training is mandated by the Deputy Chief of Staff, Operations (Training Division) [DCSOPS (T)] for all reservists assigned to a facility with a stormwater permit. All civilian personnel who work within regulated areas also are required to attend this training. The training, using several videos supplied by the Army Reserve Command, can be implemented in two or more sessions during the year.

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 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 communication among the Facility Coordinator, Motor Sergeant, shop personnel, senior officers, and 94th RSC staff. The Facility Coordinator has the responsibility to work with AMSA, unit, and 94th RSC personnel to identify needed advanced BMPs and provide proper maintenance and upkeep for existing advanced BMPs. Also, the Facility Coordinator has the responsibility to inform senior officers of advanced BMP needs, and to submit and follow up on requisitions and work orders for those BMPs selected.

Table 4.0 details the status of the BMP program at the facility. Baseline and advanced BMPs can be prioritized according to need and scheduled by the PPT. "Recommended" BMPs in Table 4.0 should be endorsed by the PPT as goals for 2000. The Facility Coordinator should initial and date the block indicating that the recommended BMP is accepted and is being implemented.

4.0 Best Management Practices Plan...*continued*

Table 4.0—Best Management Practices.

Best management practice (BMP)	BMP type[1]	Implemented	Recommend improvement	Implemented by	Implementation date
Keep work areas and outside areas clean, free of easily spilled materials, and free of sediment and loose soil	GH	X	X		
Ensure that facility maintenance and PPM storage buildings are in good condition	GH		X		
Clean spilled materials with dry sweep or rags, not with water	GH	X			
Enforce proper handling, storage, disposal, and labeling of new and used PPMs	GH		X		
Maintain updated MSDSs and PPMs inventory	GH		X		
Post good-housekeeping visual aids at the motor pool	GH	X			
Formally train military and civilian maintenance personnel in good-housekeeping practices	GH/TG	X			
Provide technical inspection for all incoming and parked vehicles and equipment with particular emphasis on fluid leaks	PM/VI		X		
Regularly service stormwater sewer drop inlets, pipes, and other conveyances	PM	X			
Ensure that an updated spill plan, emergency coordinator, and spill equipment are available at the facility during working hours	SPR	X	X		
During off- duty hours, in the event of a significant spill or leak, the designated spill coordinator should refer to the spill plan	SPR	X			
Provide formal training in emergency spill response to all military and civilian maintenance personnel	SPR/TG	X			
Ensure that outdoor-storage structures provide secondary containment and prevent contact between PPMs and stormwater	SPR	X	X		
Conduct a monthly visual inspection of the motor pool using the stormwater-inspection checklist. Sign, date, and retain with	VI		X		
Identify conditions that could cause stormwater pollution and report potential problems to the 94th RSC	VI	X			
Perform an annual stormwater-compliance inspection	VI		X		
Provide stormwater training for all military and civilian maintenance personnel	TG		X		
Relocate MEP to a location not in close proximity to any storm drains	BBMP		X		
Install curbing in POV/MEP to channel stormwater runoff into storm drain system	ABMP		X		
Reallocate spill equipment to POL shed	BBMP		X		
Secure pressure-relief door in POL shed	BBMP		X		
Post spill-response procedures at PPM loading/unloading areas	BBMP		X		
Review SWP3 standard operating procedures (SOPs) for visual and technical inspections	BBMP		X		
Update Installation Spill Contingency Plan	BBMP		X		

[1]BMP type:

GH	Good Housekeeping	SPR	Spill Prevention and Response	SEC	Sediment Erosion and Control	BBMP	Baseline Best Management Practice
PM	Preventive Maintenance	VI	Visual Inspections	TG	Training	ABMP	Advanced Best Management Practice

5.0 IMPLEMENTATION [GP-014.Section 5(b)(6)(D)]

This section establishes inspection and record keeping programs that will bring the facility into compliance. Included in this chapter are a guide for implementing a stormwater program, a stormwater-log sheet for record keeping, a stormwater-inspection checklist to be used when performing monthly and annual stormwater inspections, and an annual compliance schedule. Table 5.0 presents key elements required to implement and evaluate the stormwater-management program. Columns for approval and scheduling of such activities by senior officials are provided in Table 5.0.

Table 5.0--Key elements to implement and evaluate the stormwater-management program.

Element to implement stormwater program	By	Date
Assign top priority to: (1) correct problems identified during the initial site assessment; and (2) establish a stormwater inspection and personnel training program.		
Record significant stormwater management activities on the stormwater log sheet.		
The Motor Sergeant will perform monthly inspections. Any problems identified will be reported to the Facility Coordinator for corrective action. If the Facility Coordinator cannot correct the problem, recommendations for corrective actions will be made to the 94th RSC.		
Monthly inspection checklists will be reviewed, signed and dated by the Facility Coordinator, and filed by the Motor Sergeant for future reference by compliance inspectors.		
Periodic stormwater inspection reviews will be performed by the 94th RSC. Recommended corrective actions and employee training needs should be discussed.		
The Facility Coordinator should discuss equipment, construction, and training needs with the Motor Sergeant, senior officers and the 94th RSC. The Facility Coordinator should submit requisitions and work orders through proper channels.		
Employee training should be conducted.		
Advanced BMPs should be implemented.		
Personnel from the 94th RSC will conduct the annual compliance evaluations for the stormwater-management program and stormwater plan reviews.		

5.1 STORMWATER-LOG SHEET AND -INSPECTION CHECKLIST [GP-014.Section 5(b)(6)(D)(ii)]

The stormwater-log sheet (table 5.1a) and stormwater-inspection checklist (table 5.1b) for motor pool operations are provided on the following pages. The log sheet and checklist are a permanent record of stormwater-management activities conducted at this facility. Items such as stormwater inspections, PPM spills, or activities related to implementation and maintenance of BMPs should be recorded on the log sheet. The inspection checklist is designed to reinforce the existing BMP program by assessing the effectiveness of implemented measures and controls. 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 SWP3 at the facility for future reference during plan revisions or inquiries by 94th RSC, State, or Federal inspectors.

5.0 Implementation...*continued*

Table 5.1a—Stormwater-log sheet.

Date	Initials	Narrative
Example: 1-1-99	EFD	PPM spill occurred at fuel oil UST. Twenty gallons spilled and 12 gallons recovered. Remaining spillage infiltrated into ground.

5.0 Implementation...*continued*

Table 5.1b—Stormwater-inspection checklist.

Unit name:	Building name:	Date:
Problems noted:		
Inspector's name:	Signature:	

Yes	No	Type Inspection item
		Do you see any evidence of recently spilled materials, either solid or liquid?
		Do you see any evidence of illegal dumping in stormwater sewers or drop inlets?
		Are PPMs exposed to precipitation or stormwater runoff?
		Are drums, PPM storage structures, and secondary-containment units secure and properly labeled?
		Is a contract in place for the proper collection and disposal of spent PPMs generated at the OMS?
		Are vehicles and equipment stored outdoors free of excessive mud and dirt?
		Do you see excess trash, unswept or cluttered work areas, or materials that can be easily spilled?
		Are there spots, pools, or other traces of PPMs on the ground?
		Do you see any leaking vehicles, drums, tanks, dumpsters, or other equipment?
		Does standing water have oil sheening or discoloration?
		Is vehicle/equipment washing or steam cleaning performed at any area other than the wash rack?
		Is an updated spill plan or SOP posted on the shop bulletin board?
		Is spill-containment equipment readily accessible?
		Are monthly visual inspections performed and documented?
		Does stormwater runoff enter and cause problems inside shop and storage buildings?
		Is the vehicle wash rack operating properly?
		Is there any active soil erosion at the motor pool?
		Are there areas of standing water at the motor pool?
		Are any non-stormwater discharges entering the stormwater-sewer system or drainage ditches?
		Do outdoor PPM storage structures prevent contact with precipitation or stormwater runoff?
		Are secondary-containment units in use at new and used PPM storage areas?
		Are drip pans in use at the motor pool? Estimated percentage of vehicles with drip pans: _____%.
		Are conex boxes or milvans used to store new or used PPMs at this motor pool? If yes, please give the number of conex boxes or milvans in use: _____
		Are visual aids such as stormwater posters and warning signs displayed at this AMSA?
		Is environmental training provided for personnel working at the AMSA?

Corrective actions needed:		
Reviewer's name:	Signature:	Date:

5.0 Implementation...*continued*

5.2 ANNUAL COMPLIANCE INSPECTION [GP-014.Section 5(b)(6)(D)]

The SWP3 should be updated annually or more often, as required. The 94th RSC is charged with conducting compliance evaluations and updating the plan. Major tasks include (i) reviewing updated site information (including stormwater-log sheets and -inspection forms); (ii) reinspecting industrial-activity and pollutant-source areas and outfalls; (iii) updating information about those areas and the PPMs inventory; (iv) conducting non-stormwater discharge inspections of outfalls; (v) reevaluating the use of BMPs and recommending additional controls (if necessary); and (vi) convening the PPT to review stormwater issues and problems. The compliance update also allows the PPT to assess and update training needs. Table 5.2 provides information on conducting the evaluations.

Table 5.2--Annual compliance schedule.

Compliance element	Conducted by	Start date	Completion date
Review monthly stormwater-inspection checklists completed by the Motor Sergeant			
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 updates to implemented BMPs, update recommended BMPs			
Review and update regulatory information in the SWP3 if necessary			
Conduct NSWD assessment and certification			
Conduct stormwater sampling of regulated outfalls if required. (Consult CTDEP and Connecticut General Permit for information.)			
Complete report of compliance findings and sample results, and file			

6.0 APPENDIX

Table 6.0--Non-stormwater discharge certification.

Non-stormwater discharge assessment and certification			Completed by: Agency: Date:		Remo Mondazzi, CT USGS-WRD 5 August 1999	
Date of test or evaluation	Outfall directly observed during the test	Method used to test or evaluate discharge	Describe test results for the presence of non-stormwater discharge	Identify potential significant sources	Agency conducting test or evaluation	Recom-mended action
08/05/99	OF-1	Visual	No NSWD	NA	USGS, CT	N/A

I certify that periodic NSWD inspections will be performed at Paul J. Sutcovoy USARC 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. Date Signed**

6.0 Appendix...*continued*

Figure 6.0—Photolog.

PLATE 1: Paul J. Sutcovoy USARC – Waterbury, Connecticut, looking north

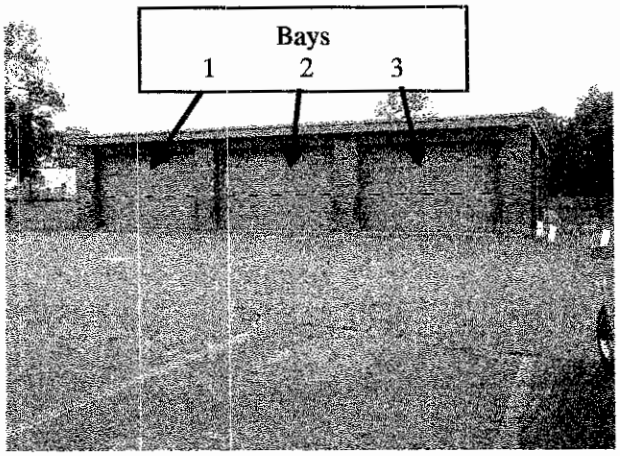


PLATE 2: OMS, locking east

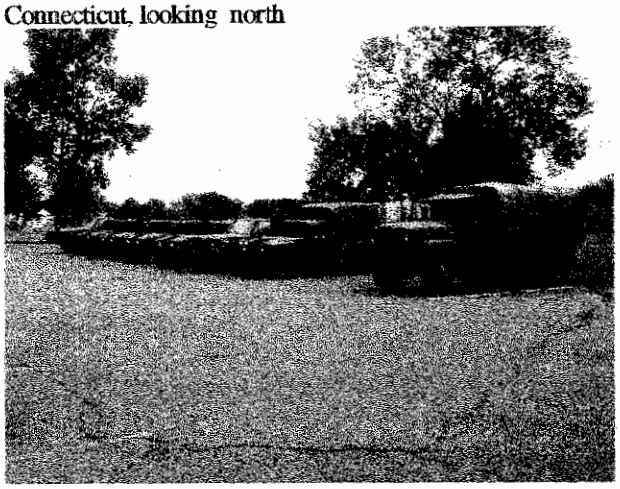


PLATE 3: MEP/POV, looking northeast

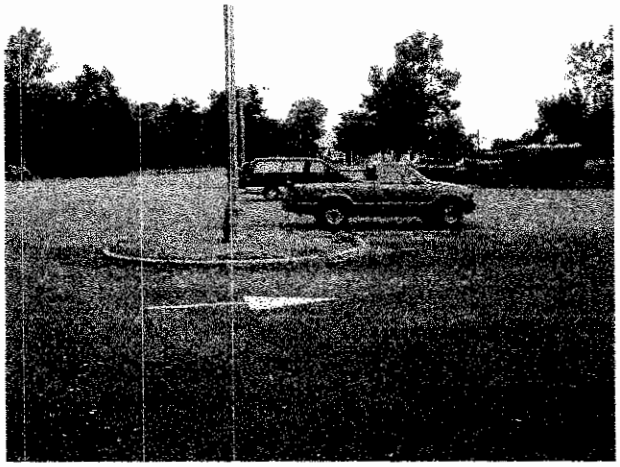


PLATE 4: POV/MEP, looking north

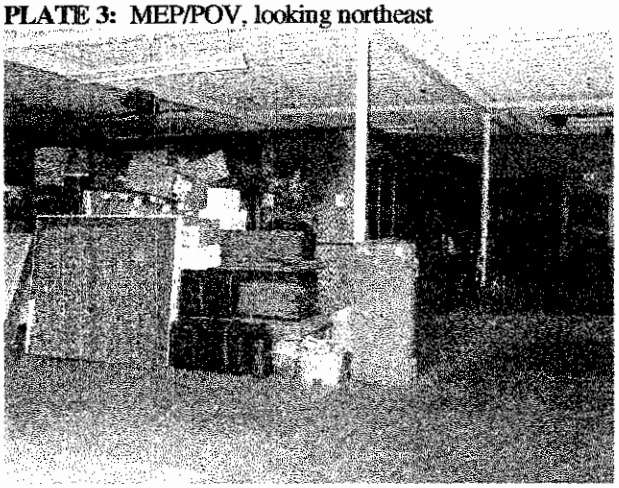


PLATE 5: Interior of OMS, bay two

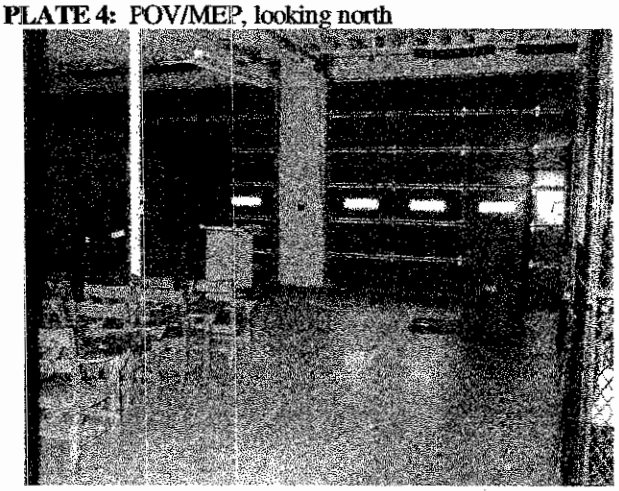


PLATE 6: Interior of OMS, bay one

6.0 Appendix...*continued*

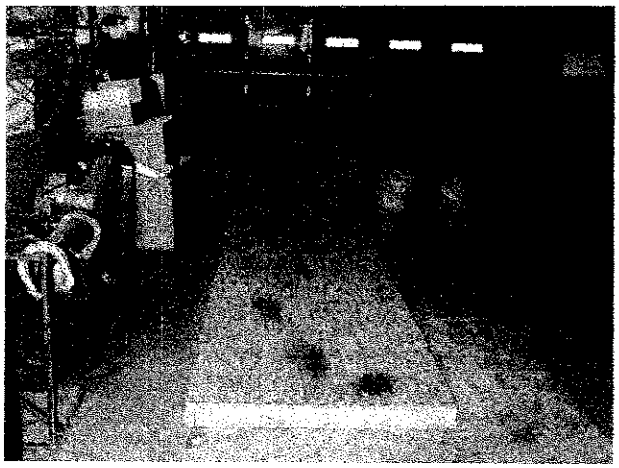


PLATE 7: Interior of OMS, bay three, unused grease pit

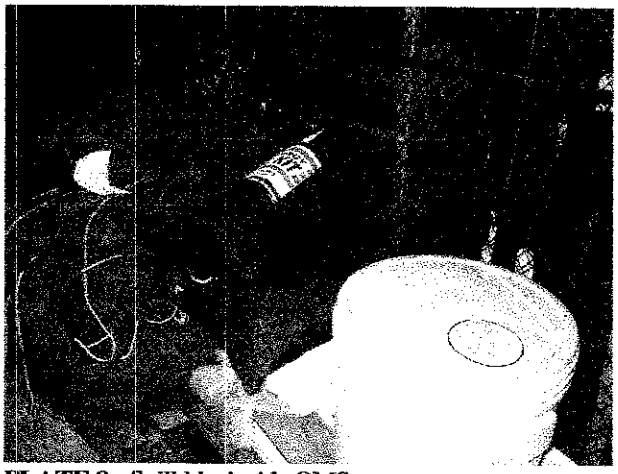


PLATE 8: Spill kits inside OMS

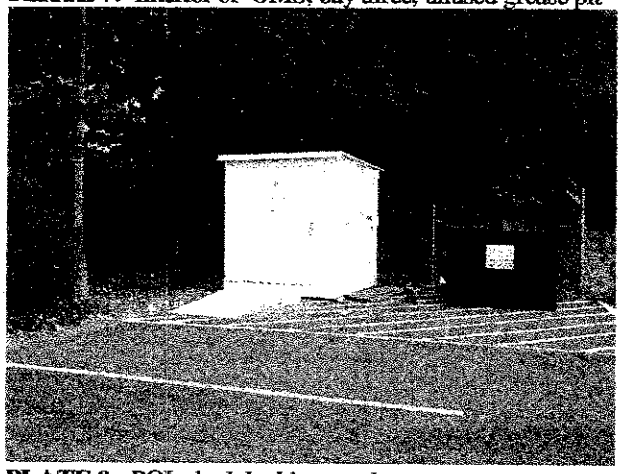


PLATE 9: POL shed, looking northwest

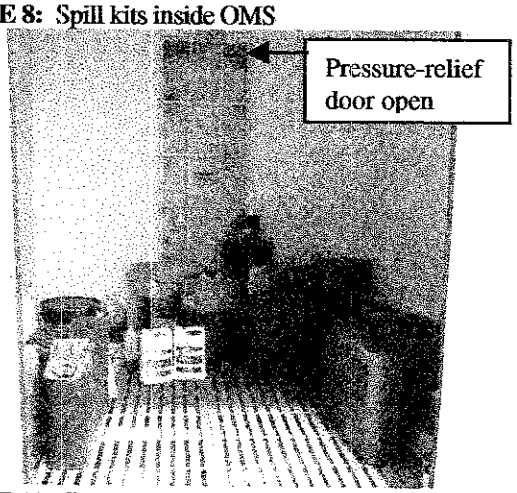


PLATE 10: Contents of POL shed

PLATE 11: Fuel cans next to POL shed

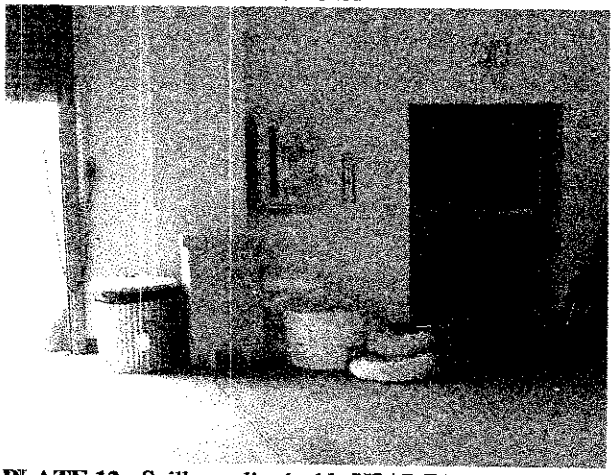


PLATE 12: Spill supplies inside USARC building

6.0 Appendix...*continued*

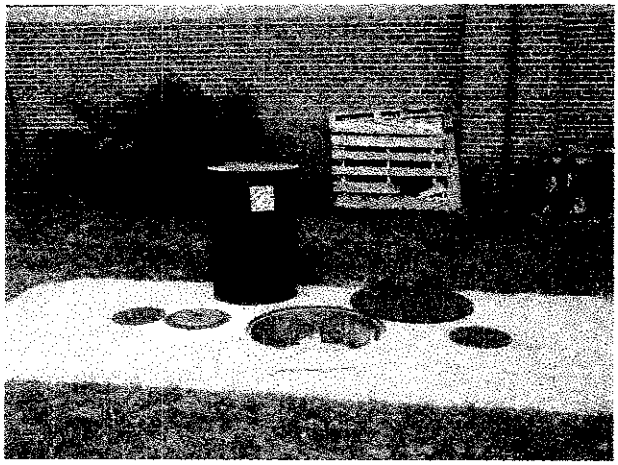


PLATE 13: 55-gallon drum marked hazardous waste, UST concrete pad behind OMS

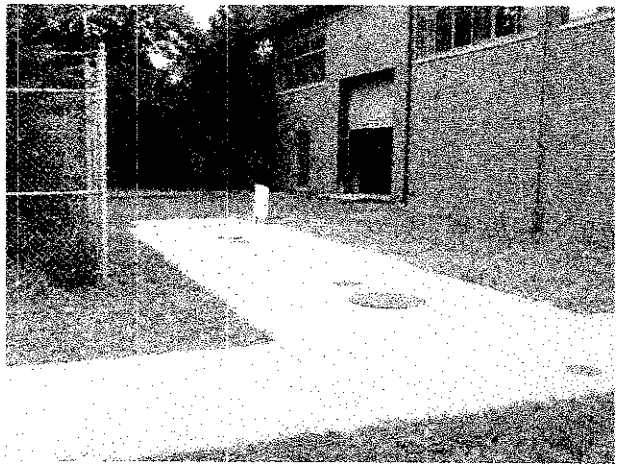


PLATE 14: Other UST concrete pad,behind USARC building

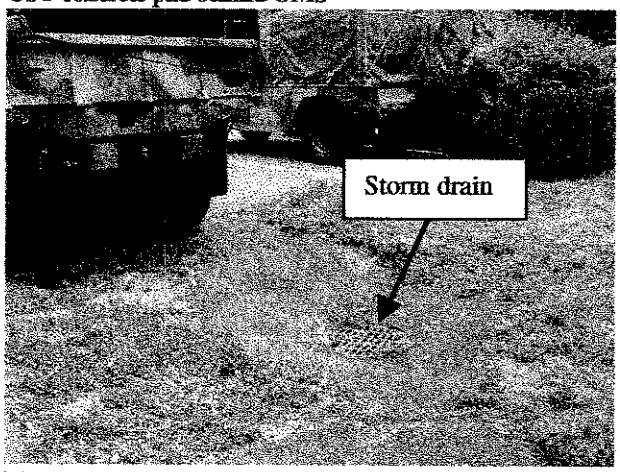


PLATE 15: Storm drain near MEP

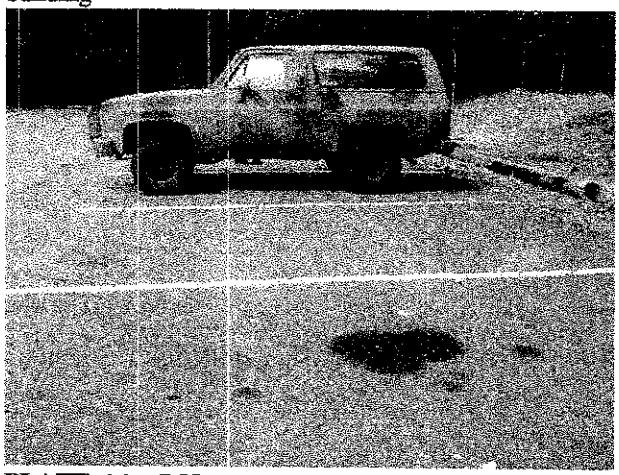


PLATE 16: POL stain in MEP/POV, isolated military vehicle

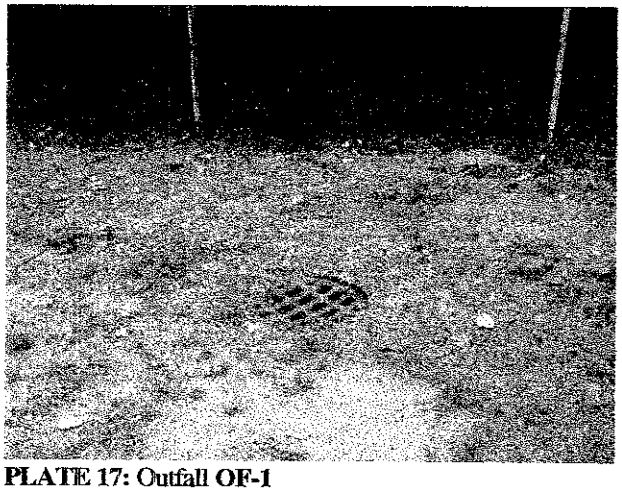


PLATE 17: Outfall OF-1

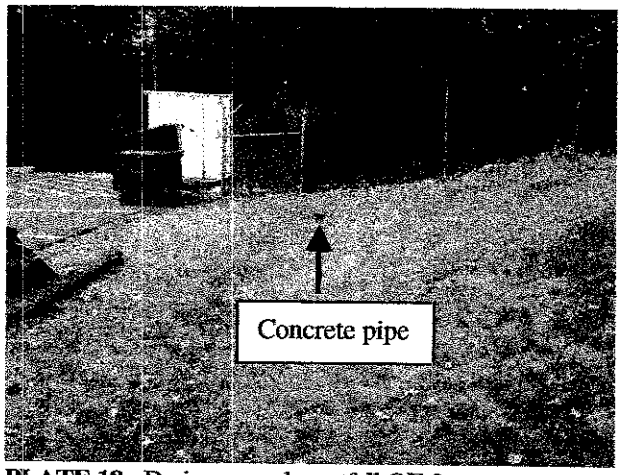


PLATE 18: Drainage swale, outfall OF-2

Fac. ID:	CT005	Facility Name:	USARC, Middletown, CT												
Item No.	Common Name	CAS No.	National Stock Number (NSN)	Container (use EPCRA code)	Quantity On Hand	MSDS ?	RCRA Code	EHS TPQ	EHS RQ	CERCLA RQ	311/312?	Threshold	TRI ?	Haz. Properties	Location
	Anti-freeze				2 - 1 gallon bottles										POL shed
	Automatic transmission fluid		9150-00-698-2382		16 - 1 quart cans										POL shed
	Brake fluid, silicone		9150-01-102-9455		4 - 1 gallon bottles										POL shed
	Decontaminating agent		6850-00-297-6653		1 - 50 lb can										POL shed
	Enamel, interior				2 - 5 gallon cans										POL shed
	Fuel				6 - 5 gallon cans										POL shed
	Hydraulic fluid		9150-00-149-7431		4 - 1 quart cans										POL shed
	Laquer				6 - aerosol cans										POL shed
	Motor oil, OB-HDO-30		9150-00-188-9858		2 - 5 gallon cans										POL shed
	Paint, severely rusted cans				10 - 1 gallon cans										POL shed

Technical Report
Underground Storage Tank Closure
1,000 Gallon Waste Oil
UST No. 0065
United States Army Reserve Center
Lydia Street Extension
Waterbury, Connecticut

ATEC File: 37.07.91.0451
Contract No. DAK31-91-D-0015

Prepared for:

United States Army
Directorate of Contracting
Building 227
Fort Devens, Massachusetts

Attn: Mr. James Dijack,
Contracting Officer

January 14, 1994

January 14, 1992

Mr. James Dijack, Contracting Officer
United States Army
Directorate of Contracting
Building 227
Fort Devens, Massachusetts 01433-5340

RE: Technical Report
Underground Storage Tank Closure
1,000 Gallon Waste Oil, UST No. 0065
United States Army Reserve Center
Lydia Street Extension
Waterbury, Connecticut
ATEC File: 37.07.91.0451

Mr. Dijack:

Attached is a Technical Report by ATEC Associates, Inc. (ATEC), detailing the closure of one Underground Storage Tank (UST) referenced as UST No. 0065, located at the United States Army Reserve Center, Lydia Street Extension, Waterbury, Connecticut (the site). The Technical Report covers work conducted under Contract No. DAKF31-91-D-0015 as part of Removal of Underground Storage Tanks in the New England Area, U.S. Army Project No. EQ-19027-9P.

ATEC appreciates the opportunity to be of service in this matter. If you have any questions or comments, please do not hesitate to contact our office.

Sincerely,

ATEC Associates, Inc.

James M Regan
Project Engineer

James B. O'Brien
Senior Project Manager

Ronald Lawson
Assistant Vice President

TABLE OF CONTENTS

TRANSMITTAL LETTER i

TABLE OF CONTENTS ii

1.0 INTRODUCTION 1

2.0 UST No. 0065 2

2.1 Post Removal Report 2

2.1.1 Introduction 2

2.1.2 Subsurface Storage Tank Excavation and Removal 3

2.1.3 Sampling and Analysis Plan 4

2.1.4 Analytical Results 5

2.1.5 Conclusion and Recommendations 6

2.2 Site Remediation and Contaminated Soil Disposal 7

2.2.1 Site Remediation 7

2.2.2 Soil Stratigraphy 8

2.2.3 Contaminated Soil Disposal 8

2.3 Hydrogeological Services 8

2.4 Backfill 9

2.5 Site Restoration 9

2.6 Photographic Documentation 10

2.7 OCMA 220 Data Sheets 11

2.8 Laboratory Analytical Results 12

2.9 Chain of Custody Forms 13

2.10 Hazardous Waste Manifest 14

2.11 Weight Receipts and Bills of Lading 15

2.12 Permits and Certifications 16

2.13 UST Closure Checklist 17

2.14 Installations 18

TECHNICAL REPORT

UST No. 0065

United States Army

Fort Devens, Massachusetts

ATEC Project No. 37.07.91.00451

1.0 INTRODUCTION

This Technical Report details the removal of one Underground Storage Tank (UST) referenced as UST No. 0065, located at the United States Army Reserve Center, Lydia Street Extension, Waterbury, Connecticut (the site). The Technical Report covers work conducted under Contract No. DAKF31-91-D-00115 as part of Removal of Underground Storage Tanks in the New England Area, US Army Project No. EQ-19027-9P.

The basic Project Work Scope included:

- Excavation and removal of sixty-nine USTs at various buildings located at Fort Devens, Massachusetts and at several off-post reserve centers throughout New England.
- Remedial excavation and disposal of contaminated soil, if required.
- Hydrogeological services to include installation of monitoring wells, sampling and analysis of soil/groundwater, and determination of groundwater flow direction, if required.
- Backfilling and surface restoration of excavations.
- Preparation of a Technical Report, to include assimilation of information gathered, major findings and conclusions.

2.0 UST No. 0065

2.0 POST REMOVAL REPORT

2.1.1 Introduction

This Post-Removal Report details the results of the closure of one 1,000-gallon, single wall, steel, underground storage tank (UST) referenced as UST No. 0065, located at the United States Army Reserve Center, Lydia Street Extension, Waterbury, Connecticut (the site). The purpose of the closure was to excavate the UST and evaluate the potential for the presence of oil and hazardous material at the site. The closure of this UST was conducted on December 31, 1991.

The basic Project Work Scope included:

- Procurement/administration of all federal, state and local permits, manifests, regulations, etc., associated with UST system closure.
- Excavating, venting, cleaning, transporting, and disposing of one 5,000-gallon UST by appropriately licensed contractors/facilities.
- Disposal of residual UST materials at a licensed facility.
- Field screening and analysis of soil from the excavation by Photoionization Detector (PID) and field analyzed with a portable Non-Dispersive Infrared (NDIR) Analyzer, to identify a potential release of oil and hazardous materials from the UST, if any.
- Laboratory Analysis of soil sampled from the UST excavation by a USEPA certified laboratory for Total Petroleum Hydrocarbons.
- Preparation of a Post-Removal Report, to include assimilation of information gathered, major findings and conclusions.

2.1.2 Subsurface Storage Tank Excavation and Removal

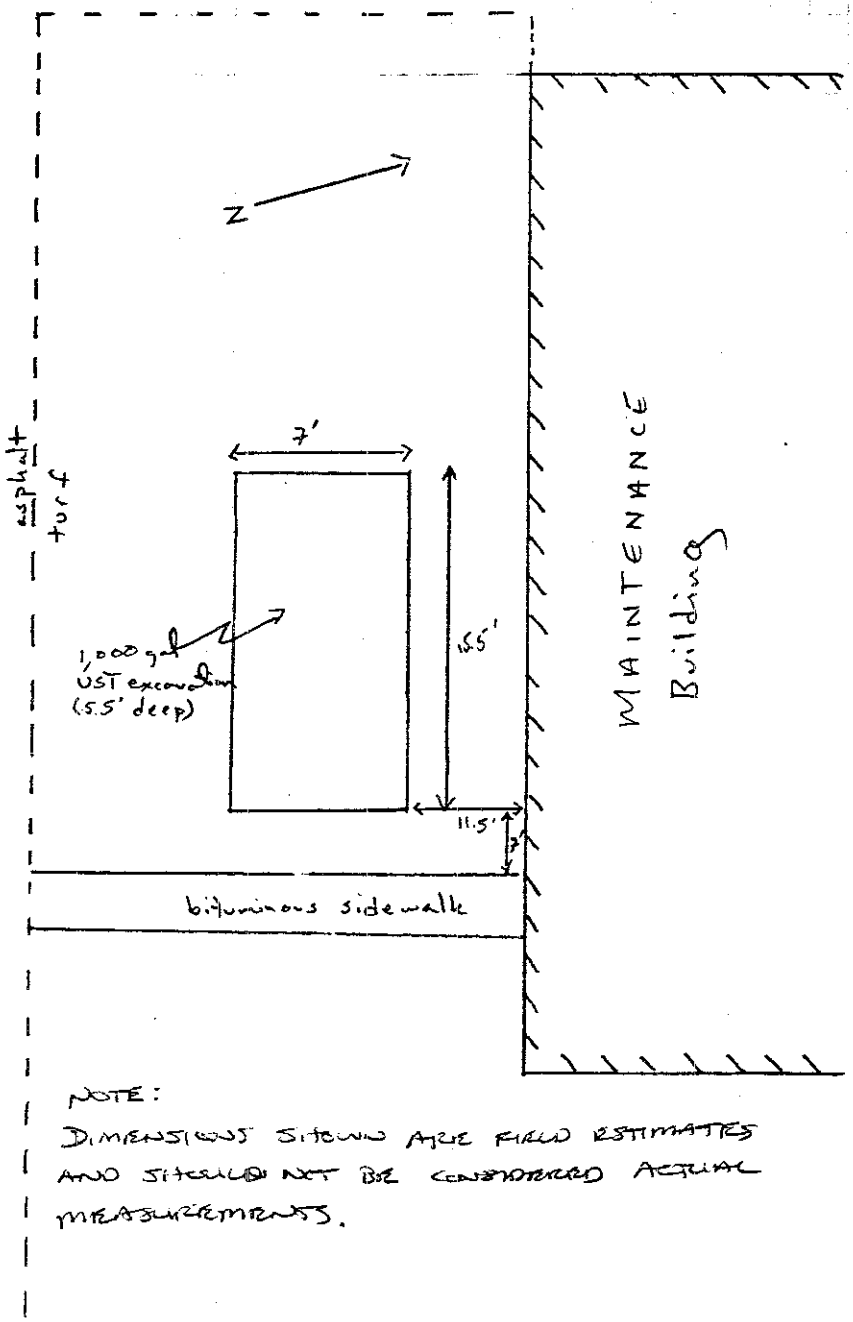
On December 31, 1991, one 1,000 - gallon, waste oil, storage tank was excavated and removed from the site. The UST was located near the north side of the maintenance building. The tank was covered by approximately two feet of soil. Site topography is gently sloped downgradient to the south. General relief of the site vicinity is sloped downgradient to the south, east, and west.

The tank was covered with approximately 1.5 feet of granular fill. Soils excavated to free the tank did not appear visibly contaminated. Soils within the excavation consisted primarily of light brown, fine sand with little medium to coarse gravel, cobbles, and boulders. The south wall of the excavation exposed a layer of red-brown clay approximately 6 inches to 2 feet below grade; medium sand with coarse gravel, cobbles and boulders approximately 2 to 4 feet below grade; and fine, light brown sand with no gravel approximately 4 to 6 feet below grade. The bottom of the excavation was approximately 6 feet below grade. Groundwater was not encountered in the excavation and no visible contamination of soil was observed.

Associated piping was drained and tank connections were removed. Prior to removal, UST No. 0065 was estimated to contain approximately 5 gallons of waste oil and residual sludge. Tank openings were capped, and the tank was removed from the excavation. The tank was observed to be in good condition with no perforations, punctures, or severe corrosion.

Following venting of the tank, an access way was cut in the end of the tank to allow entry for cleaning. It was then entered and vacuumed/wiped clean of any residual materials.

The waste oil and residual sludge was removed and drummed for on-site storage. The waste oil was transported to a licensed T.S.D.F. following characterization of the



NOTE:
DIMENSIONS SHOWN ARE FIELD ESTIMATES AND SHOULD NOT BE CONSIDERED ACTUAL MEASUREMENTS.

UST LOCATION PLAN 1,000 gallon UST relative to maintenance building at: US Army Reserve Center Waterbury, Connecticut	PROJECT: 37.07.483 NOT TO SCALE FIGURE: 1	ATEC

materials for manifest purposes. A hazardous waste manifest was not provided to ATEC by the waste transporter. ATEC's attempt to obtain a copy of the hazardous waste manifest from Mr. Roy Givens, USARC facility manager, has been unsuccessful.

The scrap tank was removed from the site on December 31, 1991 and disposed at Cura & Son, located in Watertown, Connecticut.

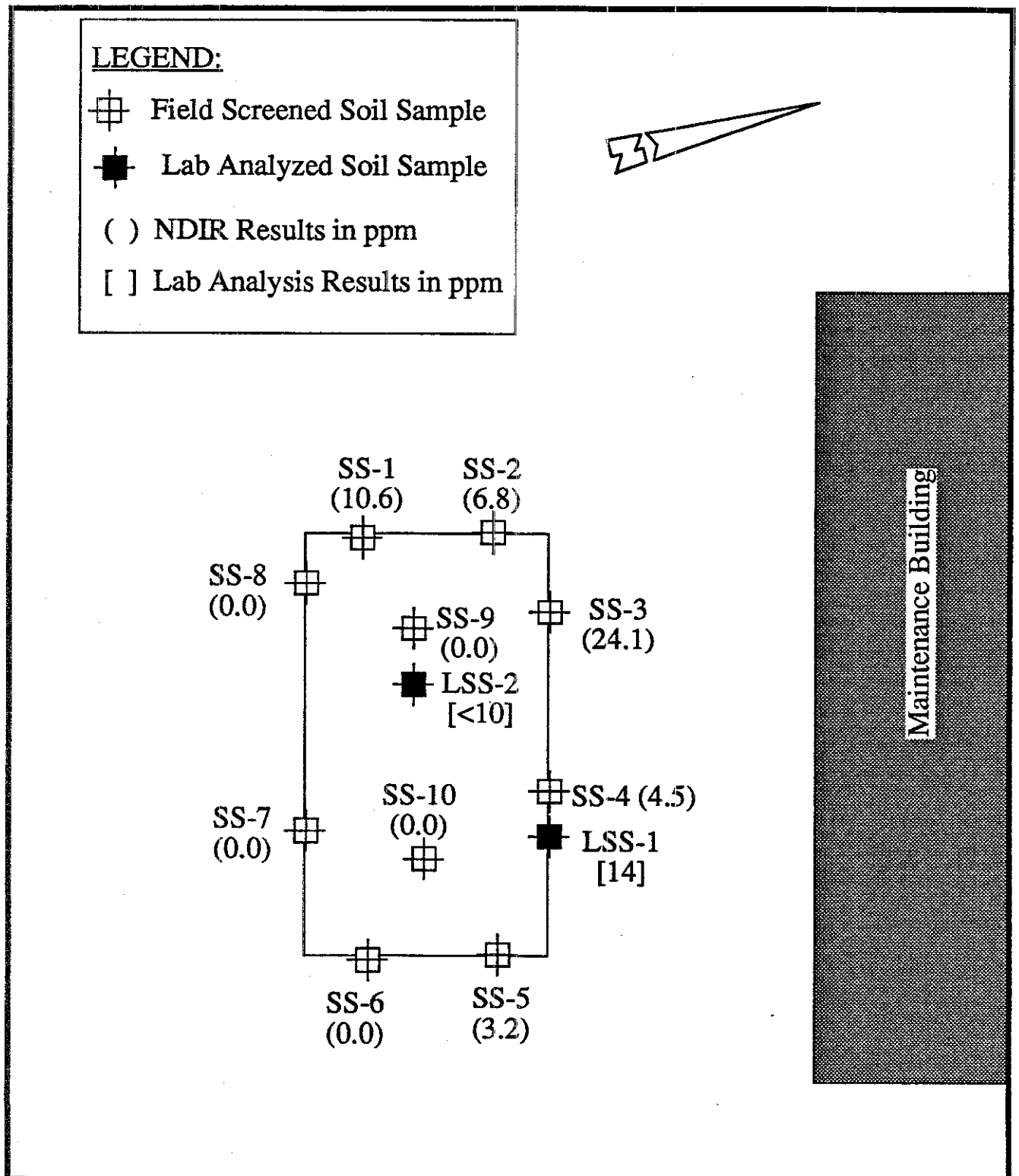
2.1.3 Sampling and Analysis Plan

Ten soil samples were obtained from the excavation for field screening with a Photoionization Detector (PID) and field analyzed with a Non-Dispersive Infrared (NDIR) Analyzer. The PID field screening for Total Organic Vapors (TOVs) was conducted with an HNu photoionizer utilizing the jar headspace screening procedures outlined in the Hazardous Materials Containment Plan. The NDIR field screening for Total Petroleum Hydrocarbons (TPH) was conducted with a Horiba OCMA 220 utilizing the procedures outlined in the Hazardous Materials Containment Plan.

Eight of the soil samples (SS-1 to SS-8) were obtained from the excavation walls at a depth of approximately three to four feet below grade. Two of the soil samples (SS-9 and SS-10) were obtained from the bottom of the excavation. Sampling locations for the excavation are depicted on the Sampling Schematic attached as Figure 2.

Two soil samples (Stock-1 and Stock-2) were obtained from the stockpile for screening with a Photoionizing Detector (PID) and Non-Dispersive Infrared Analyzer (NDIR). PID screening revealed TOV concentrations of 0.1 ppm and 0.2 ppm, respectively. NDIR screening revealed TPH concentrations of 14.1 ppm and 11.1 ppm, respectively.

Two soil samples (LSS-1 & LSS-2) were obtained from the excavation for laboratory analysis. These samples were analyzed for TPH utilizing USEPA Method 418.1. Soil



SAMPLING SCHEMATIC

1,000 gallon UST excavation at:
US Army Reserve Center
Waterbury, Connecticut

PROJECT: 37.07.483

NOT TO SCALE

FIGURE: 2

ATEC

sample LSS-1 was obtained from the northeast wall of the excavation; LSS-2 was obtained from the bottom of the excavation. Sampling locations are depicted on the Sampling Schematic attached as Figure 2.

Laboratory analytical results for a sample of waste oil sludge (W.O.) was obtained for hazardous waste manifest characterization purposes. Analyses were performed for Volatile Organic Compounds (VOCs) utilizing USEPA Method 8010/8020; Semivolatile Organic Compounds utilizing USEPA Method 8270; 13 Metals by TCLP utilizing USEPA Method 6010; Polychlorinated Biphenyls (PCBs) utilizing USEPA Method 8080; Flashpoint utilizing USEPA Method 1010; and Corrosivity utilizing USEPA Method 9045.

Sampling locations are depicted on the Sampling Schematic, Figure 2. The applicable chain of custody forms are included in Section 2.10, Chain of Custody Forms.

2.1.4 Analytical Results

The results from analysis with the Photoionization Detector (PID) and the Non-Dispersive Infrared (NDIR) Analyzer of the ten samples obtained from the excavation and two samples obtained from stockpiled soil are depicted in Table 1.

Laboratory analytical results of the two soil samples obtained from the excavation revealed 14 ppm TPH for LSS-1 and <10 ppm TPH for LSS-2 (Appendix D).

Laboratory analytical results of sludges (w.o.) for VOCs revealed 690 parts per billion (ppb) Benzene, and 3,140 ppb Toluene. Analytical results for Semivolatile Organic Compounds revealed 475 ppm Naphthalene; 375 ppm Bis(2-ethylhexyl)phthalate, 98 ppm Fluorene, 130 ppm Pyrene and 1,975 ppm 2-Methylnaphthalene. Analytical results for 13 Metals by TCLP revealed 7.2 ppm Lead, 0.19 ppm Nickel, and 10.1 ppm Zinc. PCBs were not detected. The Flashpoint was less than 200°F, and Corrosivity was revealed to be 6.8.

TABLE 1 - PID AND NDIR RESULTS

Sample No.	TOV (ppm)	TPH (ppm)
SS-1	N.D.	10.6
SS-2	0.1	6.83
SS-3	0.1	24.1
SS-4	N.D.	4.5
SS-5	N.D.	3.2
SS-6	N.D.	N.D.
SS-7	0.1	N.D.
SS-8	N.D.	N.D.
SS-9	0.1	N.D.
SS-10	0.2	N.D.
Stock-1	0.2	14.1
Stock-2	0.1	11.1

N.D. = None Detected

2.1.5 Conclusions and Recommendations

ATEC's conclusions were as follows:

Upon excavation and removal, the tank was observed to be in good condition with no signs of perforation, punctures, or severe corrosion.

Visual inspection of the excavation did not reveal the presence of stained soil. Groundwater was not encountered within the excavation.

Ten soil samples were obtained from the excavation for field screening and field analysis utilizing a PID and NDIR Analysis, respectively. PID readings revealed TOV concentrations ranging from 0.0. to 0.2 ppm. NDIR results revealed TPH concentrations ranging from 0.0 ppm to 14.1 ppm.

Two soil samples were obtained from the excavation for laboratory analysis for TPH utilizing USEPA Method 418.1. Analytical results for LSS-1 obtained from the north wall of the excavation revealed a TPH concentration of 14 ppm. Analytical results for LSS-2 obtained from the bottom of the excavation revealed TPH concentration of <10 ppm.

Based upon NDIR Screening and laboratory analytical results, remedial excavation of petroleum contaminated soil was not requested by the U.S. Army for UST No. 0065.

ATEC's recommendations were as follows:

Based upon the analytical results for the soil samples collected during UST 0065 removal, further investigation is not recommended

2.2 SITE REMEDIATION AND CONTAMINATED SOIL DISPOSAL

2.2.1 Site Remediation

The results of the NDIR Screening and laboratory analyses for the soil samples collected during the tank closure were submitted to the U.S. Army in a Post Removal Report dated January 16, 1992. Based upon NDIR Screening and laboratory analytical results, remedial excavation of petroleum contaminated soil was not required by the U.S. Army for UST No. 0065.

2.2.2 Soil Stratigraphy

Contract specifications do not require a stratigraphic soil section if site remediation is not conducted. Therefore, a soil stratigraphy figure is not included within this technical report. See Section 2.1.2 for soil description.

2.2.3 Contaminated Soil Disposal

Contaminated soil disposal was not required for the closure of UST 0065.

2.3 HYDROGEOLOGICAL SERVICES

Hydrogeological services, to include the installation of monitoring wells, were not performed for UST No. 0065.

2.4 BACKFILL

On December 31, 1991, approximately 22.1 cubic yards of soil was used to fill the excavation associated with the removal of UST No. 0065. Backfill material consisted of 17.2 cubic yards of native soil which was excavated to free the tank and 4.9 cubic yards of bank run sand. Bank run sand contained particles which were less than three inches in diameter and was free from roots and debris, as per Section 4, Paragraph 5 of the contract. Backfill material was compacted to contract specifications. The excavation was backfilled to subgrade level prior to site restoration.

2.5 SITE RESTORATION

Following backfill of the excavation, 136 square feet of loam and seed was placed over the site to complete surface restoration.

2.6 PHOTOGRAPHIC DOCUMENTATION

The following photographs are of the UST removed and the excavation.

A-1 One side of removed tank.

A-2 Opposite view of removed tank.

A-3 Excavation as viewed from west, facing east.

A-4 Excavation as viewed from east, facing west.

A-1

A-2

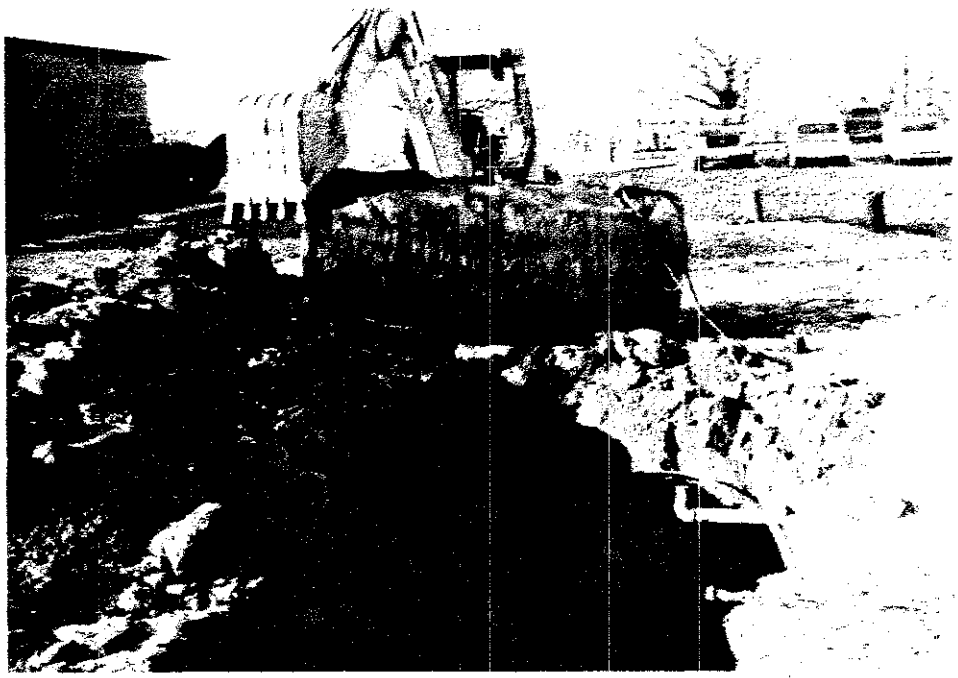
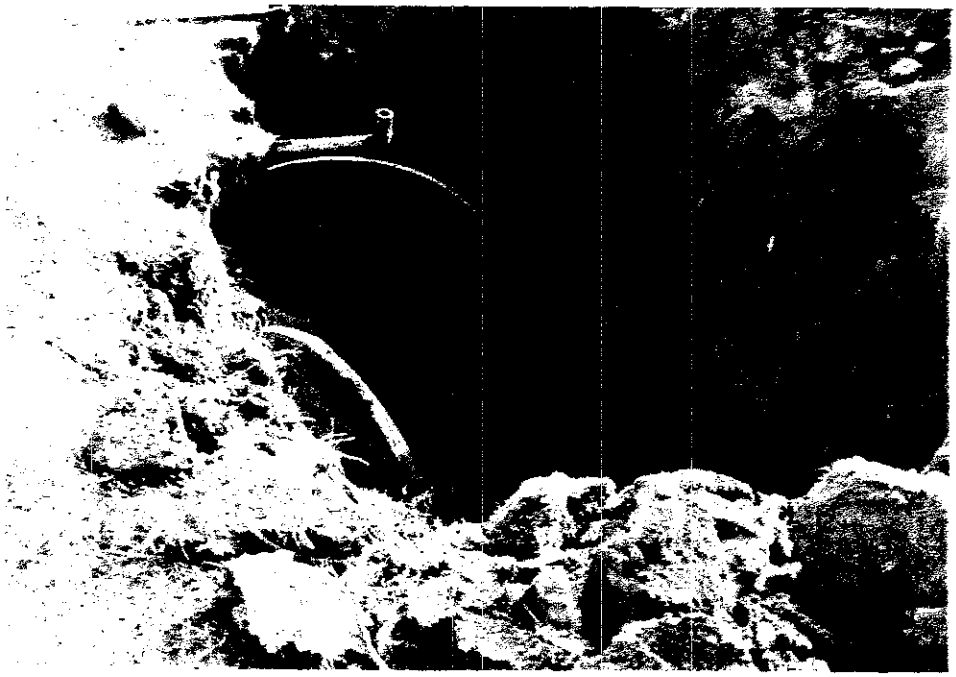


PHOTO DOCUMENTATION 1,000 gallon UST excavation at: US Army Reserve Center Waterbury, Connecticut	PROJECT: 37.07.483	ATEC

A-3



A-4

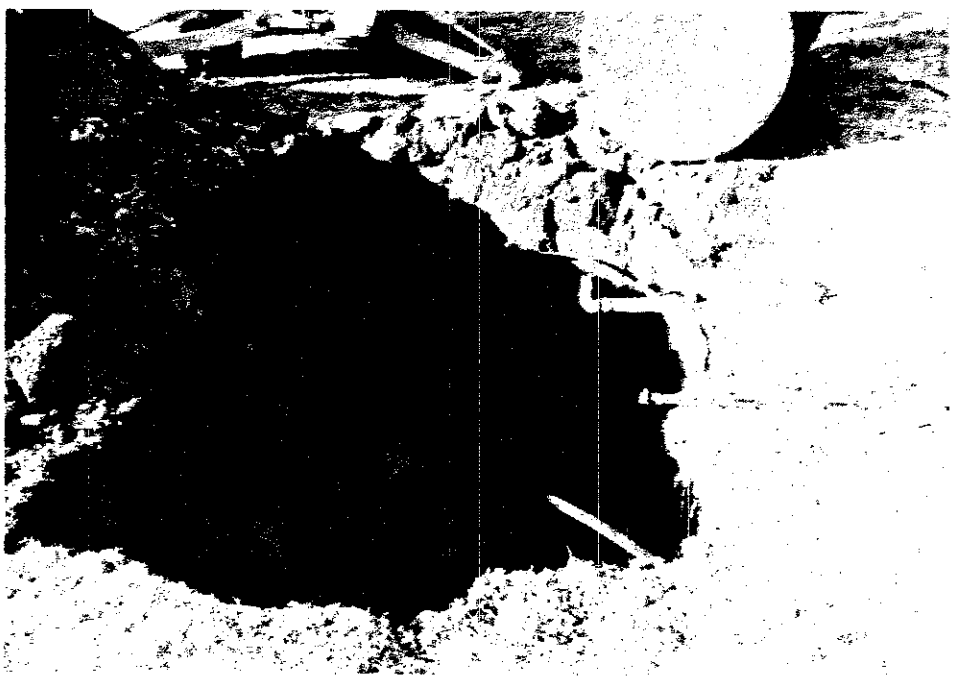


PHOTO DOCUMENTATION 1,000 gallon UST excavation at: US Army Reserve Center Waterbury, Connecticut	PROJECT: 37.07.483	ATEC

2.7 OCMA 220 DATA SHEETS

The following information was organized from the data collected from the Non-Dispersive Infrared Analyzer.

SS-1 to SS-10: Soil samples obtained from original excavation.

Stock 1 & Stock 2: Composite soil samples collected from the stockpile.

Field Data Sheet

TK# 60

Operator Name: Rick German Date: 1/6/92 EBI Project Number: 37.07.92.0049

Calibration

	First Reading Initial	First Reading Final	Second Reading Initial	Second Reading Final	Third Reading Initial	Third Reading Final
Zero Calibration	.8	0	-0.2	0.0	-0.2	0.0
Span Calibration	45.6	40.0	43.1	40.0	42.3	40.0
Zero Calibration	3.2	6.0	-3.2	0.0	-0.3	0.0

Span Check: 25.8

Testing

Sample ID#	Weight Gross	Weight Tare	First Approach F-113	First Approach Sample	Second Approach F-113	Second Approach Sample	Readings First	Readings Second	Readings Third	TPH, Soil mg/kg
Stock 1	78.8	74	17.5 mL	3 mL			.8	.4	.4	14.1
Stock 2	74.5	74					.3	.3	—	11.1
SS-1	80.3	74.5					.1	.3	.3	10.6
SS-2	82.1	74.9					.2	.2	—	6.83
SS-3	74.5	74.5					.5	.6	—	24.1
SS-4	83.6	74.4					.2	.2	—	4.45
SS-5	81.5	74.8					.1	.1	—	5.15
SS-6	83.0	75.3					0.0	0.0	—	
SS-7	77.4	74.3					.1	0.0		
SS-8	76.0	74.2					.2	0.0	0.0	
SS-9	85.2	76.0					.1	0.0	—	
SS-10	81.6	75.0					0.0	0.0	—	

2.8 LABORATORY ANALYTICAL REPORTS

The following laboratory analytical reports were organized and provided by Environmental Science Services Inc.

- LSS-1 and LSS-2: Soil samples obtained from the original excavation. Laboratory analyzed for TPH.

- W.O.: Waste oil sample obtained for hazardous waste manifest characterization purposes. for PCB's, Flashpoint, Corrosivity, Volatile organic Compounds, Semivolatile organic compounds, and Inorganic Compounds.

RECEIVED JAN 0 3 1992

In Response To The Future

CERTIFICATE OF ANALYSIS

Date: 1/31/92 Job: 20
Account: 95659
Received: 1/3/92

TO: ATEC ENVIRONMENTAL
62 Accord Park Drive
Norwell, MA 02061

Project: WATERBURY

Attn: Mr. Mark Baldi

Sample Number	Method Number	Parameter	Result	Unit	Sample Description
92002001	EPA-418.1	TPH/IR(Dry Wt.)	14	mg/Kg	LSS1
	EPA-160.3	Total Solids	92	%	
92002002	EPA-418.1	TPH/IR(Dry Wt.)	<10	mg/Kg	LSS2
	EPA-160.3	Total Solids	90	%	
92002003	SW-846 1010	Flash Point	>200	'F	W.O.
	SW-846 9045	pH	6.8	.	
	SW-846 8080	PCBs	Attached	.	
	SW-846 8010/8020	Volatiles	Attached	.	
	EPA-8270	Semi Volatiles	Attached	.	
	TCLP	Inorganics	Attached	.	

David Dickinson
Laboratory Manager

Environmental Science Services
532 Atwells Avenue, Providence, Rhode Island 02909 (401) 421-0398 Fax (401) 421-5731

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CERTIFICATE OF ANALYSIS

Polychlorinated Biphenyls

ESS SAMPLE ID: 92002003
CLIENT SAMPLE ID: W.O.

ESS PROJECT ID: 20
CLIENT PROJECT ID: Waterbury

Parameter	Results	Method Reporting Limit
Arochlor 1016	ND	< 50 mg/kg
Arochlor 1221	ND	< 50 mg/kg
Arochlor 1232	ND	< 50 mg/kg
Arochlor 1242	ND	< 50 mg/kg
Arochlor 1248	ND	< 50 mg/kg
Arochlor 1254	ND	< 50 mg/kg
Arochlor 1260	ND	< 50 mg/kg

David Dickinson
Laboratory Manager

Note: ND=None Detected

In Response To The Future

CERTIFICATE OF ANALYSIS

EPA Method 8010/8020

ESS SAMPLE ID: 92002003
CLIENT SAMPLE ID: W.O.

ESS PROJECT ID: 20
CLIENT PROJECT ID: Waterbury

Volatile Halogenated Organics	RESULT	METHOD REPORTING LIMIT	
Bromodichloromethane	ND	500	ug/Kg
Bromoform	ND	500	ug/Kg
Bromomethane	ND	500	ug/Kg
Carbon tetrachloride	ND	500	ug/Kg
Chlorobenzene	ND	500	ug/Kg
Chloroethane	ND	500	ug/Kg
2-Chloroethylvinyl ether	ND	500	ug/Kg
Chloroform	ND	500	ug/Kg
Chloromethane	ND	500	ug/Kg
Dibromochloromethane	ND	500	ug/Kg
1,2-Dichlorobenzene	ND	500	ug/Kg
1,3-Dichlorobenzene	ND	500	ug/Kg
1,4-Dichlorobenzene	ND	500	ug/Kg
Dichlorodifluoromethane	ND	500	ug/Kg
1,1-Dichloroethane	ND	500	ug/Kg
1,2-Dichloroethane	ND	500	ug/Kg
1,1-Dichloroethene	ND	500	ug/Kg
trans-1,2-Dichloroethene	ND	500	ug/Kg
1,2-Dichloropropane	ND	500	ug/Kg
cis-1,3-Dichloropropene	ND	500	ug/Kg
trans-1,3-Dichloropropene	ND	500	ug/Kg
Methylene Chloride	ND	500	ug/Kg
1,1,2,2-Tetrachloroethane	ND	500	ug/Kg
Tetrachloroethene	ND	500	ug/Kg
1,1,1-Trichloroethane	ND	500	ug/Kg
1,1,2-Trichloroethane	ND	500	ug/Kg
Trichloroethene	ND	500	ug/Kg
Trichlorofluoromethane	ND	500	ug/Kg
Vinyl Chloride	ND	500	ug/Kg
Benzene	690	500	ug/Kg
Ethylbenzene	ND	500	ug/Kg
Toluene	3140	500	ug/Kg
Total Xylenes	ND	500	ug/Kg

David Dickinson
Laboratory Manager

NOTE: ND=None Detected above method reporting limit.

In Response To The Future

CERTIFICATE OF ANALYSIS

TCL ACID EXTRACTABLES-EPA METHOD 8270

ESS SAMPLE ID: 92002003
CLIENT SAMPLE ID: W.O.

ESS PROJECT ID: 20
CLIENT PROJECT ID: Waterbury

Parameter	Sample Concentration	Method Reporting Limit	
2-Chlorophenol	ND	25	mg/Kg
2-Nitrophenol	ND	25	mg/Kg
Phenol	ND	25	mg/Kg
2,4-Dimethylphenol	ND	25	mg/Kg
2,4-Dichlorophenol	ND	25	mg/Kg
2,4-Dinitrophenol	ND	125	mg/Kg
Pentachlorophenol	ND	125	mg/Kg
4-Nitrophenol	ND	125	mg/Kg
2,4,6-Trichlorophenol	ND	25	mg/Kg
2,4,5-trichlorophenol	ND	125	mg/Kg
2-Methylphenol	ND	25	mg/Kg
4-Methylphenol	ND	25	mg/Kg
4-Chloro-3-Methylphenol	ND	25	mg/Kg
4,6-Dinitro-2-Methylphenol	ND	125	mg/Kg

David Dickinson
Laboratory Manager

** Above list compiled from US EPA Contract Laboratory Program Statement of Work for Organic Analysis, Multi-media, Multi-concentration, SOW No. 2/88.

NOTE: ND=None Detected above method reporting limit.

In Response To The Future

CERTIFICATE OF ANALYSIS
PAGE 5
TCL BASE NEUTRAL EXTRACTABLES-EPA METHOD 8270

ESS SAMPLE ID: 92002003
CLIENT SAMPLE ID: W.O.

ESS PROJECT ID: 20
CLIENT PROJECT ID: Waterbury

Parameter	Sample Concentration	Method Reporting Limit	
Acenaphthylene	35	25	mg/Kg
1,2,4-Trichlorobenzene	ND	25	mg/Kg
Hexachlorobenzene	ND	25	mg/Kg
Bis(2-chloroethyl)ether	ND	25	mg/Kg
2-Chloronaphthalene	ND	25	mg/Kg
1,2-Dichlorobenzene	ND	25	mg/Kg
1,3-Dichlorobenzene	ND	25	mg/Kg
1,4-Dichlorobenzene	ND	25	mg/Kg
3,3-Dichlorobenzidine	ND	50	mg/Kg
2,4-Dinitrotoluene	ND	25	mg/Kg
2,6-Dinitrotoluene	ND	25	mg/Kg
Fluoranthene	ND	25	mg/Kg
4-Chlorophenyl phenyl ether	ND	25	mg/Kg
Bis(2-chloroisopropyl) ether	ND	25	mg/Kg
Bis(2-chloroethoxy) methane	ND	25	mg/Kg
Hexachlorobutadiene	ND	25	mg/Kg
Hexachlorocyclopentadiene	ND	25	mg/Kg
Isophorone	ND	25	mg/Kg
Naphthalene	475	25	mg/Kg
Nitrobenzene	ND	25	mg/Kg
N-nitrosodiphenylamine	ND	25	mg/Kg
N-nitrosodi-n-propylamine	ND	25	mg/Kg
Bis(2-ethylhexyl)phthalate	375	25	mg/Kg
Di-n-butylphthalate	ND	25	mg/Kg
Di-n-octylphthalate	ND	25	mg/Kg
Diethyl phthalate	ND	25	mg/Kg
Dimethyl phthalate	ND	25	mg/Kg
Benzo(a)anthracene	ND	25	mg/Kg
Benzo(a)pyrene	ND	25	mg/Kg
Benzo(b)fluoranthene	ND	25	mg/Kg
Benzo(k)fluoranthene	ND	25	mg/Kg
Chrysene	ND	25	mg/Kg
Acenaphthene	ND	25	mg/Kg
Anthracene	ND	25	mg/Kg

David Dickinson
Laboratory Manager

** Above list compiled from US EPA Contract Laboratory Program Statement of Work for Organic Analysis, Multi-media, Multi-concentration, SOW No. 2/88.

In Response To The Future

CERTIFICATE OF ANALYSIS

TCL BASE NEUTRAL EXTRACTABLES-EPA METHOD 8270 cont.

ESS SAMPLE ID: 92002003
CLIENT SAMPLE ID: W.O.

ESS PROJECT ID: 20
CLIENT PROJECT ID: Waterbury

Parameter	Sample Concentration	Method Reporting Limit
Benzo(ghi)perylene	ND	25 mg/Kg
Fluorene	98	25 mg/Kg
Phenanthrene	ND	25 mg/Kg
Dibenzo(a,h)anthracene	ND	25 mg/Kg
Ideno(1,2,3-cd)pyrene	ND	25 mg/Kg
Pyrene	130	25 mg/Kg
Hexachloroethane	ND	25 mg/Kg
4-Bromophenyl-phenylether	ND	25 mg/Kg
Benzyl Alcohol	ND	25 mg/Kg
Benzoic Acid	ND	125 mg/Kg
Bis(2-Chloroethoxy)methane	ND	25 mg/Kg
4-Chloroaniline	ND	25 mg/Kg
2-Methylnaphthalene	1975	25 mg/Kg
2-Nitroaniline	ND	125 mg/Kg
3-Nitroaniline	ND	25 mg/Kg
Dibenzofuran	ND	25 mg/Kg
4-Nitroaniline	ND	125 mg/Kg
Butylbenzylphthalate	ND	25 mg/Kg

David Dickinson
Laboratory Manager

** Above list compiled from US EPA Contract Laboratory Program Statement of Work for Organic Analysis, Multi-media, Multi-concentration, SOW No. 2/88.

Note: ND=None Detected above method reporting limit.

In Response To The Future

CERTIFICATE OF ANALYSIS

TCLP CONSTITUENTS

Inorganic Components

ESS SAMPLE ID: 92002003
CLIENT SAMPLE ID: W.O.

ESS PROJECT ID: 20
CLIENT PROJECT ID: Waterbury

Inorganics	Sample Result*		Regulatory Level	
Arsenic	<0.2	mg/L	5.0	mg/L
Barium	<0.2	mg/L	100.0	mg/L
Cadmium	0.09	mg/L	1.0	mg/L
Chromium	<0.05	mg/L	5.0	mg/L
Lead	7.2	mg/L	5.0	mg/L
Mercury	<0.002	mg/L	0.2	mg/L
Selenium	<0.3	mg/L	1.0	mg/L
Silver	0.07	mg/L	5.0	mg/L
Nickel	0.19	mg/L	N.A.	
Thallium	<0.1	mg/L	N.A.	
Zinc	10.1	mg/L	N.A.	
Copper	0.1	mg/L	N.A.	
Antimony	<0.2	mg/L	N.A.	
Beryllium	<0.01	mg/L	N.A.	

Matrix Spike Recovery Data

Arsenic	85%
Barium	60%
Cadmium	105%
Chromium	100%
Lead	110%
Mercury	104%
Selenium	103%
Silver	100%
Nickel	85%
Thallium	120%
Zinc	125%
Copper	115%
Antimony	105%
Beryllium	95%

* Sample result is not corrected for matrix bias.

David Dickinson
Laboratory Manager

NOTE: Regulatory Levels from Federal Register / Vol. 55. No. 126 / Friday, June 29, 1990 / Rules and Regulations.

2.9 CHAIN OF CUSTODY FORMS

The following chain of custody forms were completed and submitted to ESS with the laboratory samples.

CHAIN OF CUSTODY RECORD

PROJ. NO. 07.483

PROJECT NAME USATC Waterbury CT

CLIENT

LAB PROJ. NO.

SAMPLERS: (Signature) Mark E Zaldi

SAMPLING METHOD grab

LABORATORY ANALYSIS

SAMPLE I.D. NO.	DATE	TIME	COMPOSITE	GRAB	WATER	SOIL	sludge	FILTERED	ACIDIFIED	ICED		NUMBER OF CONTAINERS	LAB I.D. NUMBER	VOLATILE ORGANICS	BTX & E	TOTAL HYDROCARBONS (IR)	PCB'S	E.P. TOXIC METALS	~~TOTAL METALS~~ (8) TCLP metals	IGNITABILITY	semi-volatiles	corrosivity	SAMPLE LOCATION / REMARKS
LSS1	12/31					X						1				X							
LSS2	12/31					X						1				X							
W.O.	12/31						X					4		X			X		X	X	X	X	

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Mark E Zaldi	12/92	[signature]			

Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Project Manager / Phone #:

ATEC Environmental Consultants
Division of ATEC Associates, Inc.
62 Accord Park Drive
Norwell, MA 02061
(617) 878-6200

2.10 HAZARDOUS WASTE MANIFESTS

UST No. 65 was estimated to contain five gallons of waste oil and residual sludge. The waste oil and residual sludge was removed on December 31, 1991 and drummed for on-site storage. Drummed material was transported to a licensed TSDF following characterization for disposal purposes. A hazardous waste manifest was not provided to ATEC by the waste transporter. ATEC has attempted to obtain a copy of the hazardous waste manifest from Mr. Roy Givens, facility manager at the USARC in Waterbury, Connecticut (the site). Therefore, the applicable hazardous waste manifest is not included.

2.11 WEIGHT RECEIPTS AND BILLS OF LADING

Weight Receipts and Bills of Lading were not required for UST 0065 as no soil was transported and disposed of off-site.

2.12 PERMITS AND CERTIFICATIONS

The following registration form was completed by ATEC for the closure of No. 0065. Permits are not required by the State of Connecticut. However, a permit was obtained from the Waterbury Fire Marshal's Office and is attached.

AC[illegible] NO[illegible]CATION

2. [illegible]

1. ☒ FIRST NOTIFICATION
OR
2. ☐ SUBSEQUENT NOTIFICATION (If checked, enter No.)

SITE I.D.

Department of Environmental Protection
UNDERGROUND STORAGE FACILITIES PROGRAM
HAZARDOUS MATERIALS MANAGEMENT UNIT
165 Capitol Avenue, Hartford, CT 06106

TEL. 566-4630

PLEASE TYPE. ALL THREE COPIES MUST BE LEGIBLE!

Refer to **INSTRUCTIONS FOR FILING NOTIFICATION** before completing form.

3. [illegible]

AGENC[illegible]

B. DATE

D. GRID COORDINATES
X _____ Y

LOCATION OF FACILITY	SITE NAME: US Army Reserve Center	NO. AND STREET: Lydia St. Extension	NEAREST INTERSECTING STREET:	CITY OR TOWN: Waterbury	STATE: CT
BUSINESS NAME AND MAILING ADDRESS	NAME: US Army Reserve Center	NO. AND STREET: Lydia Street Extension		CITY OR TOWN: Waterbury	STATE: CT
FACILITY OWNER	NAME: US Army	NO. AND STREET: HQ Fort Devens		CITY OR TOWN: Fort Devens	STATE: MA
TYPE OF OWNER	☐ PRIVATE ☐ STATE ☐ MUNICIPAL ☒ FEDERAL (G.S.A. No. _____)				
OPERATOR/CONTACT PERSON	NAME: Roy Givens	NO. AND STREET: Lydia Street Extension		CITY OR TOWN: Waterbury	STATE: CT

TANK ID.	11a. DATE OF INSTALLATION (Mo./Yr.)	11b. LIFE EXPECTANCY (# of years)	12a. TOTAL CAPACITY (Gals.)	IN USE	ABANDONED IN PLACE	12 b. STATUS: EST. QUANTITY LEFT STORED (if any). (Gals.)	REMOVED	DATE TANK LAST USED (Mo./Yr.)	13. TYPE OF CONTENTS: OIL/PETROLEM PRODUCT	CHEMICAL LIQUID	14. CONTENTS- CHEMICAL NAME OF PRINCIPAL SUBSTANCE (not trade name.) (Enter C.A.S. No., If known)	15. CONSTRUCTION MATERIALS: STEEL	FIBERGLASS REINFORCED PLASTIC	OTHER (Specify from list A)	16. PROTECTION a. INTERNAL: LINED	UNLINED	b. EXTERNAL: CATHODIC PROTECTION	COATED/WRAPPED	CATHODIC PROTECTION	OTHER (Specify from list B)	17. INTEGRAL PIPING SYSTEM a. CONSTUCTION AND PROTECTION (See list A&B)	b. INSTA[illegible] REPL[illegible] (Mo
ample	5/75	30	5000	X					X		Heating fuel #2		X			X				H	5	5/
ample	7/60	-	8000				X	8/78		X	1, 1, 1, - Trichloroethane CAS #79016	X				X				E	7	7/
	1984		1000			Removed	X	12/91	X		Waste Oil	X										

[illegible]. HAVE YOU ATTACHED SKETCH OF TANKS AND LOCATION? ☒ YES

[illegible]1. COMMENTS: Tank and excavation in good condition. Inspected by Anthony CoFrancesco of Waterbury Fire Dept.

22. CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. Penalties: any owner who knowingly fails to notify shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

22a. SIGNATURE
X

22c. NAME (Type or Print)

COPY 1 · SEND TO DEP: 165 CAPITOL AVE. HARTFORD, CT 06106

PERMIT # 91-057T

CITY OF WATERBURY

OFFICE OF THE FIRE MARSHAL

APPLICATION FOR PERMIT
FOR THE REMOVAL, INSTALLATION OR ABANDONMENT
OF TANKS CONTAINING FLAMMABLE OR COMBUSTIBLE LIQUIDS

SECTION A - Site information

Date of Application: 12/6/91

Location: US ARMY RESERVE CENTER / LYDIA ST EXT.

Owner's name and address: US ARMY
LYDIA ST EXTENSION
WATERBURY, CT 06705 - 1198
(203) 236-5632

Number of tanks for which this application applies: 1

NOTE: SITE PLAN REQUIRED

SECTION B - Purpose

Reason for application:
(X) Removal of tank(s)
( ) Installation of tank(s)
( ) Abandonment in place of tank(s)

Reason of installation:
( ) To fuel motor vehicles
( ) To provide fuel for on-site heating
( ) To collect waste product
( ) To aid in recovery of contaminants from eco-systems
( ) Other (state reason) _____

Reason for removal/abandonment:
( ) Life expectancy reached
( ) Failure of system
( ) Leak
( ) Upgrade
( ) Failed certification test
(X) Other (state reason) US ARMY PROGRAM TO REMOVE UNDERGROUND WASTE OIL TANKS AT THEIR FACILITIES

ECTION C - Contractors

e ral Contractor (responsible party) Signature: James M Ray

AME: ATEC ENVIRONMENTAL CONSULTANTS HOME PHONE: (617) 982-9518

D ESS: 62 ACCORD PARK, NORWELL, MA BUSINESS PHONE: (617) 878-6200

xcavation Contractor

A :: _____ HOME PHONE: _____

DDRESS: _____ BUSINESS PHONE: _____

n allation Contractor

AME: _____ HOME PHONE: _____

D ESS: _____ BUSINESS PHONE: _____

ank Cleaning Contractor

A :: _____ HOME PHONE: _____

DDRESS: _____ BUSINESS PHONE: _____

l bing Contractor

AME: _____ HOME PHONE: _____

DDRESS: _____ BUSINESS PHONE: _____

lectrical Contractor

A :: _____ HOME PHONE: _____

DDRESS: _____ BUSINESS PHONE: _____

M Contractor

A :: _____ HOME PHONE: _____

DDRESS: _____ BUSINESS PHONE: _____

ECTION D - Licenses

i : all appropriate State of Connecticut trade license numbers:

	1	2	3	4
A E				
RADE				
D #				

	5	6	7	8
A E				
RADE				
D #				

SECTION E - Tank data

Include all data pertinent to tanks being removed, abandoned or installed.

REMOVALS/ABANDONMENTS	INSTALLATIONS
TANK 1 capacity: 500 GAL product held: WASTE OIL tank construction: STEEL product remaining: ? - WILL BE PURGED	TANK 1 capacity: product held: tank construction: tank manufacturer: corrosion protection:
TANK 2 capacity: product held: tank construction: product remaining:	TANK 2 capacity: product held: tank construction: tank manufacturer: corrosion protection:
TANK 3 capacity: product held: tank construction: product remaining:	TANK 3 capacity: product held: tank construction: tank manufacturer: corrosion protection:
TANK 4 capacity: product held: tank construction: product remaining:	TANK 4 capacity: product held: tank construction: tank manufacturer: corrosion protection:
TANK 5 capacity: product held: tank construction: product remaining:	TANK 5 capacity: product held: tank construction: tank manufacturer: corrosion protection:

FIRE PREVENTION CODE PERMIT
(1989 Edition)

Permit # 91-057T

This permit is issued pursuant to one or more of the following sections of the City of Waterbury Fire Prevention Code, dated 1989:

Section 1.10	✓	Section 5.3		Section 8.12	
Section 3.2		Section 6.1 to 6.6		Section 9.2	

This permit shall constitute permission to maintain, store or handle materials or conduct processes which may produce conditions hazardous to life or property or to install equipment used in such activities, as referenced in the applicable sections of the aformentioned Fire Code.

This permit does not take the place of any license required by law, is not transferable and must be conspicuously posted on the premises where such activities shall take place.

This permit is issued for the following purpose(s):

TO REMOVE 1-500gal waste oil tank

to the following individual(s):

ABC Consultants for The U.S. Army Reserve

for the period:

Dec 6, 1991 THRU Jan 6, 1992

Signed: James M. Ryan Authorized by: Capt Anthony Cofrancesco Dated: Dec 6, 1991

2.13 UST CLOSURE CHECKLIST

The following UST closure checklist was produced by ATEC Associates Inc., for quality control purposes.

UST CLOSURE O/C CHECK LIST

UST No. - 1000 gal

USADC Waterbury CT

W.O. UST

DEFINABLE FEATURE	DATE	TIME	MEASUREMENTS		NOTES
Calibrate PID & LEL/O2 meters	12/31	8:00			Site Topography: gently sloped downgradient to S onsite. Gen. Relief sloped significantly downgradient to S, W, E.
Drain & flush piping & pumps	12/31	8:30			
Excavate to top of tank	12/31	9:00			Depth to tank: 1.5'
Vent tank note LEL/O2 levels & times	12/31		LEL	O2	
		T1: 9:30	0	20.9	
		T2: 9:45	0	20.9	
		T3: 10:00	0	20.9	
		T4: 10:15	0	20.9	
		T5: 10:30	0	20.9	
		T6:			
		T7:			
		T8:			
		T9:			
		T10:			
		T11:			
		T12:			
Pump & clean tank: Note quantities liquid (gal) & sludge (lbs)	12/31	10:00	5 gal. liquid / 1 drum stored on-site; ___ lbs. sludge		Tank Dimensions: 4' x 10' little surficial rust no punctures perforations
Remove all tank connections, and cap openings	12/31	10:15			
Excavate soils to free tank	12/31	10:20			
Segregate stained soils: Note PID readings (if >10 ppm NDIR also)	12/31	10:30	PID (ppm)	NDIR (ppm)	none visibly contaminated
			0.2	14.1	stock-1
			0.1	11.1	stock-2
					excavation inspected + ok by
					H. Anthony Cafrancesco - Waterbury
					F.D.

UST-CLOSURE O/C CHECK LIST

DEFINABLE FEATURE	DATE	TIME	MEASUREMENTS			NOTES
Remove tank, piping, pumps, and hardware.	12/31	10:30	Photographic Descriptions:			Soil Description: light brown fine sand
Photograph excavation; note descriptions.			Photo 1: Tank			w/little med & coarse gravel cobbles
Sketch Schematic			Photo 2: Tank			boulders. S wall expose red brown clay
			Photo 3: excavation from W face E			1.5'-2': med sand w/coarse gravel boulders (2-3.5')
			Photo 4: excavation from E face W			fine light brown sand no gravel (3.5-5.5')
			Photo 5:			Depth to Groundwater/Conditions: N/A
			Photo 6:			
Place tank at safe distance from excavation	12/31	10:30				Depth of Excavation: 5.5'
Secure tanks transport off-site	12/31	12:30				
Obtain 10 soil samples from	12/31	10:45		PID (ppm)	NDIR (ppm)	Sample locations: 2.5'-3.5' deep. See Schematic
excavation walls/bottom: Note PID/NDIR			SS1:	0	10.6	W wall
readings and sample locations.			SS2:	0.1	6.8	W wall
			SS3:	0.1	24.1	N wall
			SS4:	0	4.5	N wall
			SS5:	0	3.2	E wall
			SS6:	0	0.0	E wall
			SS7:	0.1	0.0	S wall
			SS8:	0	0.0	S wall
			SS9:	0.1	0.0	bottom
			SS10:	0.2	0.0	bottom
Obtain 2 soil samples & 1 water samples	12/31	10:45				Sample Locations:
for laboratory analysis. Note sample locations.						LSS1: = 554
						LSS2: = 559
						LWS1:

UST CLOSURE O/C CHECK LIST				
DEFINABLE FEATURE	DATE	TIME	MEASUREMENTS	NOTES
				37.4 tons of backfill
Backfill excavation (if clean):	12/31	11:30		Backfill description: 17.4 cy native soil
Note amount & type of backfill				+ 7.5 cy processed crushed stone
				24.9 cy ≅ 37.4 tons
Close open excavation (if applicable)	12/31	12:00		
Restore surface and rope off				
Remove rubbish/debris				
Transport hazardous material off-site:				Amount Classification
Note amount/classification				
Make copies of manifests, permits,				
and disposal receipts.				

See Instructions on Reverse

MATERIAL APPROVAL SUBMITTAL

TO (Contracting Officer)	FROM (Contractor)	DATE
BETH CASTRIOTTA	ATEC ASSOCIATES, INC.	12-21-92

CONTRACT NUMBER	SUBMISSION NUMBER	SUBMITTAL
DAKF-31-91-D-0015	51	☒ NEW ☐ RESUBMITTAL

PREVIOUS SUBMISSION NUMBER	PROJECT NUMBER
	EQ-19027-7P

TO BE COMPLETED BY CONTRACTOR

Item No	Specification Section/ Para No/Drawing No	Description of Material (Include Type, Model No, Catalog No, Mfg, etc.)	FOR GOVT USE ONLY Approved	Dis-approved	See Reverse	Initial
1	Section 4.6 Para 3.7	Technical REPORT - UST# 63	X		X	
2	Section 4.6 Para 3.7	Technical Report UST 65		X		

TYPED OR PRINTED NAME AND GRADE	SIGNATURE	DATE
DAVID G. PANNATO ENVIRONMENTAL SCIENTIST	David G. Pannato	12-21-92

FOR GOVT USE ONLY

TO DFAE

For Evaluation and Action

TYPED OR PRINTED NAME AND GRADE	SIGNATURE	DATE

TO CONTRACTING OFFICER

Recommend ☐ Approval ☐ Disapproval as Indicated Above and Subject to Any Applicable Comments on the Reverse Side

TYPED OR PRINTED NAME AND GRADE	SIGNATURE	DATE
[illegible]	[illegible]	[illegible]

TO (Contractor)

☐ Approved ☒ Disapproved as Indicated Above and Subject to Any Applicable Comments on the Reverse Side. Request Resubmittal on Disapproved Items Within Days of Date Shown Below.

TYPED OR PRINTED NAME AND GRADE	SIGNATURE	DATE
BETH CASTRIOTTA	[illegible]	12/23/92

FORSCOM FORM 1 MAR 76 59-2-R

ATEC Promises

- To be totally responsive to our clients' wants and needs with a constant sense of urgency.
- To perform high quality services with technically superior personnel.
- To perform all assignments for a reasonable fee and within budget.
- To communicate with our clients frequently so there will be no surprises.
- To complete our assignments and deliver reports when promised.
- To review reports with our clients to be sure there are no misunderstandings.
- To deliver accurate invoices to our clients within seven (7) days after the completion of the assignment or as required by the clients.
- To follow up with the clients to be sure services completely satisfied their wants and needs.

ATEC Associates, Inc.
Corporate Headquarters
8665 Bash Street
Indianapolis, IN 46256-1202
(317) 577-1761

At ATEC, "Client satisfaction with a constant sense of urgency" is our goal. If you have concerns with an ATEC project or service that your local ATEC Representative has not resolved, please call 1-800-800-ATEC, a "hot line" to my office. We will do everything possible to satisfy your concerns. If you have received quality service, we would appreciate knowing that as well. Thank you for allowing us to work on your team.

Sincerely,

Gerald D. Mann
President
ATEC Associates, Inc.

Corporate Headquarters – Client Satisfaction Hot Line
1-800-800-ATEC
(1-800-800-2832)

Appendix E

Regulatory Database Search Reports

The EDR Radius Map
with GeoCheck®

Paul J. Sutcovoy USARC, CT
Lydia Street Extension
Waterbury, CT 06705

Inquiry Number: 1752414.1s

September 11, 2006

EDR® Environmental Data Resources Inc

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	6
Orphan Summary	111
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting Source Map	A-7
Physical Setting Source Map Findings	A-8
Physical Setting Source Records Searched	A-12

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

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

LYDIA STREET EXTENSION
WATERBURY, CT 06705

COORDINATES

Latitude (North):	41.549300 - 41˚ 32' 57.5''
Longitude (West):	73.017800 - 73˚ 1' 4.1''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	665322.9
UTM Y (Meters):	4601422.0
Elevation:	441 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	41073-E1 WATERBURY, CT
Most Recent Revision:	1984
East Map:	41072-E8 SOUTHINGTON, CT
Most Recent Revision:	1984

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
UNITED STATES ARMY RESERVE CENTER LYDIA STREET EXT. WATERBURY, CT 06705	UST	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

Proposed NPL..... Proposed National Priority List Sites

EXECUTIVE SUMMARY

Delisted NPL	National Priority List Deletions
NPL RECOVERY	Federal Superfund Liens
CERC-NFRAP	CERCLIS No Further Remedial Action Planned
RCRA-TSDF	Resource Conservation and Recovery Act Information
RCRA-LQG	Resource Conservation and Recovery Act Information
ERNS	Emergency Response Notification System
HMIRS	Hazardous Materials Information Reporting System
US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
US BROWNFIELDS	A Listing of Brownfields Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
ODI	Open Dump Inventory
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
MINES	Mines Master Index File
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System

STATE AND LOCAL RECORDS

SWF/LF	List of Landfills/Transfer Stations
SWRCY	Recycling Facilities
AST	Marine Terminals and Tank Information
CT Spills	Oil & Chemical Spill Database
AUL	ELUR Sites
VCP	Voluntary Remediation Sites
DRYCLEANERS	Drycleaner Facilities
BROWNFIELDS	Brownfields Inventory
ENF	Enforcement Case Listing
CT PROPERTY	Property Transfer Filings

TRIBAL RECORDS

INDIAN RESERV	Indian Reservations
INDIAN LUST	Leaking Underground Storage Tanks on Indian Land
INDIAN UST	Underground Storage Tanks on Indian Land

EDR PROPRIETARY RECORDS

Manufactured Gas Plants	EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

EXECUTIVE SUMMARY

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

FEDERAL RECORDS

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 04/19/2006 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
SCOVILL INDUSTRIAL LANDFILL	***STORE AVENUE***	***1/4 - 1/2 ENE***	***20***	***43***

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 06/19/2006 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
SCOVILL INDUSTRIAL LANDFILL	***STORE AVENUE***	***1/4 - 1/2 ENE***	***20***	***43***

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 03/15/2006 has revealed that there are 3 CORRACTS sites within approximately 1 mile of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
BOUTIN LORETTA	***1981 EAST MAIN STREET***	***1/2 - 1 SE***	***26***	***53***
CENTURY BRASS FORMERLY KNOWN A	***73 HAMILTON AVE***	***1/2 - 1 WNW***	***F30***	***77***
BRASS CENTER LIMITED	***73 HAMILTON AVENUE***	***1/2 - 1 WNW***	***F31***	***80***

EXECUTIVE SUMMARY

RCRAInfo: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System(RCRIS). The database includes selective information on sites which generate, transport, store , treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month Large quantity generators generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-SQG list, as provided by EDR, and dated 06/13/2006 has revealed that there are 6 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
ERNIES AUTO BODY WORKS INC	*159 MANOR AVE*	*1/8 - 1/4 ENE*	*D11*	*27*

Lower Elevation	Address	Dist / Dir	Map ID	Page
ERNIES INC	*24 MERIDEN RD*	*1/8 - 1/4 SSE*	*3*	*8*
EXXONMOBIL OIL CORP 30896	*1447 E MAIN ST*	*1/8 - 1/4 S*	*A4*	*10*
EXPRESSWAY AUTO INC	*93 MERIDEN RD*	*1/8 - 1/4 E*	*C8*	*19*
INTERSTATE BRANDS CORP	*105 MERIDEN RD*	*1/8 - 1/4 E*	*C12*	*28*
ERNIES AUTO BODY WORKS INC	*141 MERIDEN RD*	*1/8 - 1/4 E*	*E18*	*41*

STATE AND LOCAL RECORDS

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Protection's Inventory of Hazardous Disposal Sites.

A review of the SHWS list, as provided by EDR, and dated 05/19/2006 has revealed that there are 2 SHWS sites within approximately 1 mile of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
SCOVILLE MANUFACTURING	*99 MILL STREET*	*1/2 - 1 WNW*	*33*	*97*
CENTURY BRASS	*BRASS MILL CENTER*	*1/2 - 1 WNW*	*35*	*100*

SDADB: Site Discovery and Assessment Database.

A review of the SDADB list, as provided by EDR, and dated 05/19/2006 has revealed that there are 2 SDADB sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
DESIGNER AUTO	*1120 EAST MAIN ST*	*1/4 - 1/2 W*	*19*	*41*
SCOVILL INDUSTRIAL LANDFILL	*STORE AVENUE*	*1/4 - 1/2 ENE*	*20*	*43*

EXECUTIVE SUMMARY

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Protection's Leaking Underground Storage Tank List.

A review of the LUST list, as provided by EDR, and dated 05/23/2006 has revealed that there are 2 LUST sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
EXPRESSWAY AUTO INC	***93 MERIDEN RD***	***1/8 - 1/4 E***	***C8***	***19***
MERIDEN MANOR SHELL	131 MERIDEN RD.	1/8 - 1/4 E	E16	35

CT LWDS: The Leachate and Waste Water Discharge Inventory Data Layer (LWDS) includes point locations digitized from Leachate and Wastewater Discharge Source maps compiled by the Connecticut DEP.

A review of the LWDS list, as provided by EDR, and dated 09/22/1999 has revealed that there are 11 LWDS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
JOSEPH GALASSO PROP	LEAKING UNGRND TANK	1/2 - 1 E	29	77

Lower Elevation	Address	Dist / Dir	Map ID	Page
CENTURY BRASS	INDUSTRIAL WASTEWTR	1/4 - 1/2 WSW	21	51
CENTURY BRASS	INDUSTRIAL PIT	1/4 - 1/2 W	22	51
ETHYL METAL	COOLING WTR -SURFACE	1/4 - 1/2 WNW	23	52
CENTURY BRASS	COOLING WTR -SURFACE	1/4 - 1/2 W	24	52
MATTATUCK MFG.	INDUSTRIAL PIT	1/2 - 1 ESE	25	53
PLASMA COATINGS	MISCELLANEOUS -GRND	1/2 - 1 WNW	27	76
MATTATUCK MFG.	INDUSTRIAL WASTEWTR	1/2 - 1 SE	28	76
SCOVILLE MANUFACTURING	LANDFILL	1/2 - 1 WNW	32	97
NOVA DYE & PRINT CORP	OIL/CHEMICAL SPILLS	1/2 - 1 W	34	99
Not reported	FAILING SEPTIC SYS	1/2 - 1 WNW	36	109

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 Protection's "Town Inventory" UST Listing.

A review of the UST list, as provided by EDR, and dated 07/17/2006 has revealed that there are 6 UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
EAST MAIN EXXON	1447 EAST MAIN STREET	1/8 - 1/4 S	A5	12
SUN PETROLEUM	12 MERIDEN RD	1/8 - 1/4 S	B7	17
EXPRESSWAY AUTO INC	***93 MERIDEN RD***	***1/8 - 1/4 E***	***C8***	***19***
WONDER BREAD	105 MERIDEN RD	1/8 - 1/4 E	C13	29
CHECKERED FLAG CITGO, INC.	1485 E MAIN ST	1/8 - 1/4 S	B14	31
GULF FOOD MART	131 MERIDEN RD	1/8 - 1/4 E	E17	38

EXECUTIVE SUMMARY

MANIFEST: Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

A review of the CT MANIFEST list, as provided by EDR, and dated 12/31/2004 has revealed that there are 10 CT MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
ERNIE'S AUTO BODY WORKS, INC.	159 MANOR AVENUE	1/8 - 1/4 ENE	D10	26
ERNIES AUTO BODY WORKS INC	***159 MANOR AVE***	***1/8 - 1/4 ENE***	***D11***	***27***
SHELL OIL COMPANY	350 WOLCOTT STREET	1/8 - 1/4 N	15	34

Lower Elevation	Address	Dist / Dir	Map ID	Page
PAUL PITTS	50 MERIDEN ROAD	1/8 - 1/4 SE	2	8
ERNIES INC	***24 MERIDEN RD***	***1/8 - 1/4 SSE***	***3***	***8***
EXXONMOBIL OIL CORP 30896	***1447 E MAIN ST***	***1/8 - 1/4 S***	***A4***	***10***
FUJIFILM/WALGREENS TRAINING CE	11 MERIDEN ROAD	1/8 - 1/4 S	B6	16
EXPRESSWAY AUTO INC	***93 MERIDEN RD***	***1/8 - 1/4 E***	***C8***	***19***
EXPRESSWAY AUTO CLINIC, INC.	93 MERIDEN ROAD	1/8 - 1/4 E	C9	25
INTERSTATE BRANDS CORP	***105 MERIDEN RD***	***1/8 - 1/4 E***	***C12***	***28***

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
FRAN THOM CLEANERS	CT MANIFEST
STROEHMANN BAKERIES, INC.	CT MANIFEST
MS PAMA MITTICA	CT MANIFEST
RITE-AID	CT MANIFEST
CHUCK'S FRIENDLY STORE	CT MANIFEST
EASTERN CYCLE PREFORMANCE	CT MANIFEST
HAYDEN SWITCH & INSTRUMENTS	CT MANIFEST
STATE OF CT DOT	CT MANIFEST
CT STATE OF DOT	CT MANIFEST
CT STATE OF DOT	CT MANIFEST
CT STATE OF DOT	CT MANIFEST
ST. CECELIA CHURCH	CT Spills, CT MANIFEST
BRASS CENTER LIMITED	NY MANIFEST
EBENEZER DRY CLEANING	CT MANIFEST
LAND & SEA MARINE	CT MANIFEST
BRASS CITY TIRE	CT MANIFEST
PAT TISCO MOBILE	CT MANIFEST
PLASMA COATINGS	CT MANIFEST
WATERBURY GLASS	CT MANIFEST
EXXON COMPANY, U.S.A.	CT MANIFEST
PRO-TECH SECURITIES	CT MANIFEST
STANLEY W. D. CO	CT MANIFEST
OWENS	CT MANIFEST
ROLLEN POWELL PAINT CO.	CT MANIFEST
EPAC CO	CT MANIFEST
EXXON CO. U.S.A.	CT MANIFEST
SHELL OIL	CT MANIFEST
ROBERT FARAKOS	NY MANIFEST
ALBERTO SOTELO	CT Spills, CT MANIFEST
LANDEEN TRANSPORT CO	NY MANIFEST
CT STATE OF DOT	CT MANIFEST
WATERBURY ARTS & EDUCATION PROJECT	VCP
MOBIL # 06-G08	SDADB
JIFFY LAUNDROMAT	SDADB

OVERVIEW MAP - 1752414.1s

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites

0 1/4 1/2 1 Miles

- Indian Reservations BIA
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Paul J. Sutcovoy USARC, CT	CLIENT: CH2M Hill
ADDRESS: Lydia Street Extension Waterbury CT 06705	CONTACT: Mary Beth Jacques INQUIRY #: 1752414.1s
LAT/LONG: 41.5493 / 73.0178	DATE: September 11, 2006 4:17 pm

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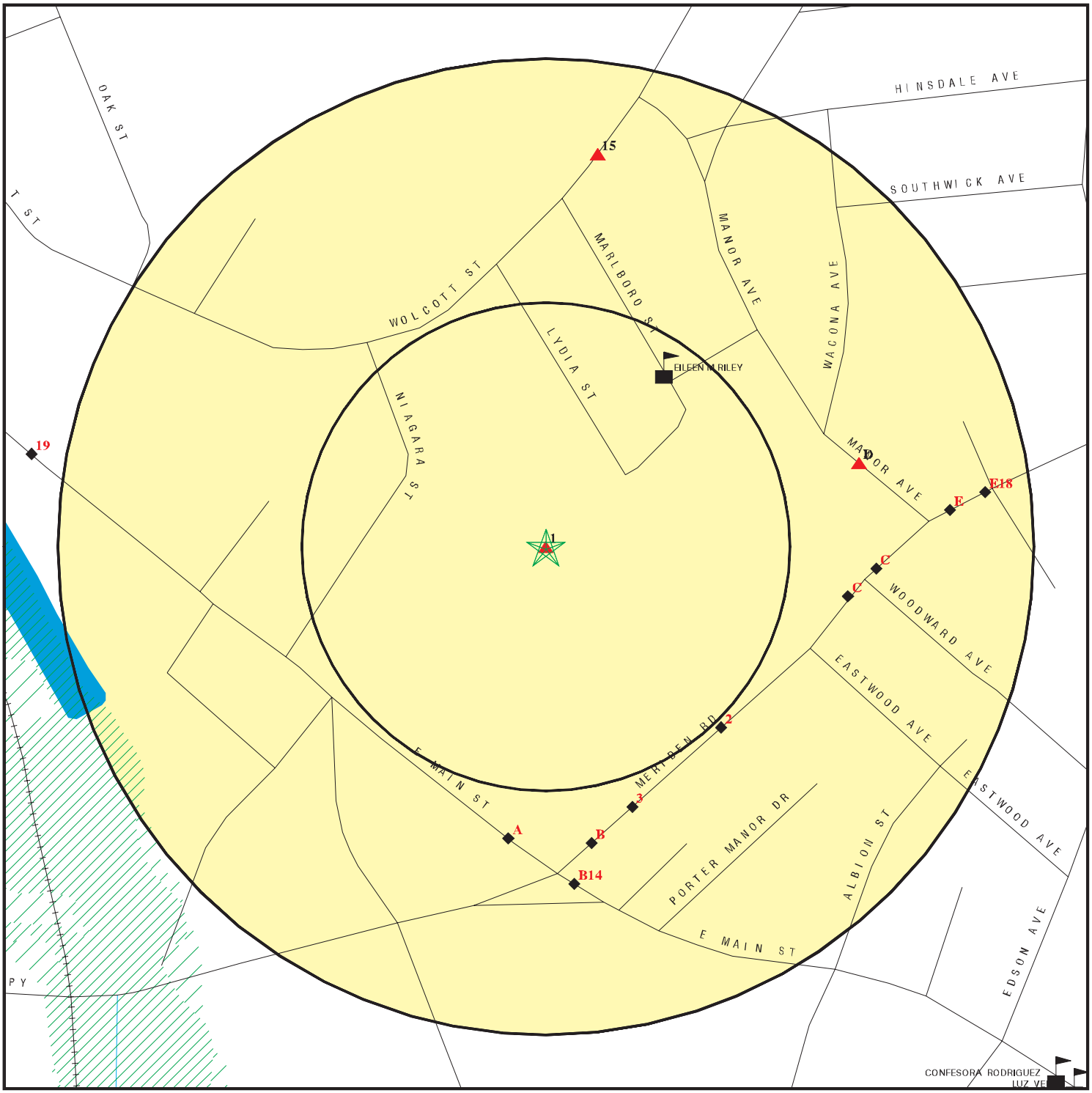
DETAIL MAP - 1752414.1s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites

0 1/16 1/8 1/4 Miles

- Indian Reservations BIA
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Paul J. Sutcovoy USARC, CT	CLIENT: CH2M Hill
ADDRESS: Lydia Street Extension Waterbury CT 06705	CONTACT: Mary Beth Jacques INQUIRY #: 1752414.1s
LAT/LONG: 41.5493 / 73.0178	DATE: September 11, 2006 4:17 pm

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MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FEDERAL RECORDS								
NPL		1.000	0	0	1	0	NR	1
Proposed NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
NPL RECOVERY		TP	NR	NR	NR	NR	NR	0
CERCLIS		0.500	0	0	1	NR	NR	1
CERC-NFRAP		0.500	0	0	0	NR	NR	0
CORRACTS		1.000	0	0	0	3	NR	3
RCRA TSD		0.500	0	0	0	NR	NR	0
RCRA Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRA Sm. Quan. Gen.		0.250	0	6	NR	NR	NR	6
ERNS		TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
STATE AND LOCAL RECORDS								
State Haz. Waste		1.000	0	0	0	2	NR	2
SDADB		0.500	0	0	2	NR	NR	2
State Landfill		0.500	0	0	0	NR	NR	0
SWRCY		0.500	0	0	0	NR	NR	0
LUST		0.500	0	2	0	NR	NR	2
LWDS		1.000	0	0	4	7	NR	11
UST	X	0.250	0	6	NR	NR	NR	6
AST		0.250	0	0	NR	NR	NR	0
MANIFEST		0.250	0	10	NR	NR	NR	10
CT Spills		TP	NR	NR	NR	NR	NR	0
AUL		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

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
ENF		TP	NR	NR	NR	NR	NR	0
CT Property		TP	NR	NR	NR	NR	NR	0
TRIBAL RECORDS								
INDIAN RESERV		1.000	0	0	0	0	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
EDR PROPRIETARY RECORDS								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
1	**UNITED STATES ARMY RESERVE CENTER**	**UST**	**U002027450**
Target	**LYDIA STREET EXT.**		**N/A**
Property	**WATERBURY, CT 06705**		

Actual: 442 ft.

UST:

Owner:	UNITED STATES ARMY
Owner Address:	MA AFZD-DEQ BOX 10
Owner City,St,Zip:	Ft Devens, MA 01433
Facility Id:	3149
Alt. Facility ID:	151-3149
Latitude Degrees:	41
Latitude Minutes:	32
Latitude Seconds:	47
Longitude Degrees:	7
Longitude Minutes:	31
Longitude Seconds:	58
Tank ID:	4
Alt. Tank ID:	D1
Tank Status:	**Currently In Use**
Capacity:	1000
Substance:	Heating Oil
Date Last Used:	Not reported
Closure Status:	**Not reported**
Tank Material:	Fiberglass Reinforced Plastic
2ndary Material:	None
Pipe Material:	Copper
Pipe Mode Description:	None
Date Installed:	4/1/1990
Spill Installed:	Yes
Overfill Installed:	Yes

Owner:	UNITED STATES ARMY
Owner Address:	MA AFZD-DEQ BOX 10
Owner City,St,Zip:	Ft Devens, MA 01433
Facility Id:	3149
Alt. Facility ID:	151-3149
Latitude Degrees:	41
Latitude Minutes:	32
Latitude Seconds:	47
Longitude Degrees:	7
Longitude Minutes:	31
Longitude Seconds:	58
Tank ID:	3
Alt. Tank ID:	C1
Tank Status:	**Currently In Use**
Capacity:	10000
Substance:	Heating Oil
Date Last Used:	Not reported
Closure Status:	**Not reported**
Tank Material:	Fiberglass Reinforced Plastic
2ndary Material:	None
Pipe Material:	Copper
Pipe Mode Description:	Double-Walled
Date Installed:	8/1/1990
Spill Installed:	Yes
Overfill Installed:	Yes

Owner:	UNITED STATES ARMY
Owner Address:	MA AFZD-DEQ BOX 10

UNITED STATES ARMY RESERVE CENTER (Continued) **U002027450**

Owner City,St,Zip:	Ft Devens, MA 01433
Facility Id:	3149
Alt. Facility ID:	151-3149
Latitude Degrees:	41
Latitude Minutes:	32
Latitude Seconds:	47
Longitude Degrees:	7
Longitude Minutes:	31
Longitude Seconds:	58
Tank ID:	2
Alt. Tank ID:	B-1
Tank Status:	**Permanently Out of Use**
Capacity:	1000
Substance:	Gasoline
Date Last Used:	3/1/1990
Closure Status:	**Tank removed from ground**
Tank Material:	Asphalt Coated or Bare Steel
2ndary Material:	None
Pipe Material:	Bare Steel
Pipe Mode Description:	None
Date Installed:	1/1/1954
Spill Installed:	No
Overfill Installed:	No

Owner:	UNITED STATES ARMY
Owner Address:	MA AFZD-DEQ BOX 10
Owner City,St,Zip:	Ft Devens, MA 01433
Facility Id:	3149
Alt. Facility ID:	151-3149
Latitude Degrees:	41
Latitude Minutes:	32
Latitude Seconds:	47
Longitude Degrees:	7
Longitude Minutes:	31
Longitude Seconds:	58
Tank ID:	1
Alt. Tank ID:	A-1
Tank Status:	**Permanently Out of Use**
Capacity:	500
Substance:	Used Oil
Date Last Used:	12/1/1991
Closure Status:	**Tank removed from ground**
Tank Material:	Asphalt Coated or Bare Steel
2ndary Material:	None
Pipe Material:	Bare Steel
Pipe Mode Description:	None
Date Installed:	2/1/1985
Spill Installed:	No
Overfill Installed:	Yes

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
2 SE 1/8-1/4 681 ft.	**PAUL PITTS 50 MERIDEN ROAD WATERBURY, CT 06708**	**CT MANIFEST**	**1007896816 N/A**

Relative:
Lower

Actual:
426 ft.

CT MANIFEST:

Year:	1989
Manifest ID:	CTC0248812
TSDF EPA ID:	CTD021816889
TSDF Name:	UNITED OIL RECOVERY, INC.
TSDF Address:	136 GRACEY AVENUE
TSDF City,St,Zip:	MERIDEN, CT 06450
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	11/03/89
Transporter EPA ID:	CTD982547358
Transporter Name:	SERVAC ENVIRONMENTAL, INC.
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:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
Generator EPA ID:	CTP000010302
Gererator Phone:	2037565029
Generator Address:	Not reported
Generator City,State,Zip:	Not reported
Generator Country:	Not reported
Special Handling:	Yes
Discrepancies:	Yes
Date Shipped:	11/03/89
Date Received:	11/09/89
Last modified date:	04/27/04
Last modified by:	IG
Comments:	Not reported

Click this hyperlink while viewing on your computer to access additional CT MANIFEST: detail in the EDR Site Report.

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3 SSE 1/8-1/4 741 ft.	**ERNIES INC 24 MERIDEN RD WATERBURY, CT 06705**	**RCRA-SQG FINDS CT MANIFEST**	**1004681426 CTD983866534**

Relative:
Lower

Actual:
404 ft.

ERNIES INC (Continued) **1004681426**

RCRAInfo:
Owner: JOHN J OBAR
(203) 555-1212
EPA ID: CTD983866534

Contact: JOHN-J OBAR
(203) 756-7884

Classification: Conditionally Exempt Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CT MANIFEST:

Year:	2004
Manifest ID:	ctf0899920
TSDF EPA ID:	CTD021816889
TSDF Name:	UNITED OIL RECOVERY, INC.
TSDF Address:	14 WEST MAIN STREET
TSDF City,St,Zip:	MERIDEN, CT 06451
TSDF Country:	USA
TSDF Telephone:	(203)238-6745
Transport Date:	01/13/04
Transporter EPA ID:	NJD080631369
Transporter Name:	ONYX ENVIRONMENTAL SERVICES, L.L.C.
Transporter Country:	USA
Transporter Phone:	(973)691-7321
Trans 2 Date:	/ /
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
Generator EPA ID:	ctd983866534
Gererator Phone:	2037567884
Generator Address:	24 MERIDEN RD
Generator City,State,Zip:	WATERBURY, CT 06705
Generator Country:	USA
Special Handling:	Not reported
Discrepancies:	Not reported
Date Shipped:	01/13/04
Date Received:	01/16/04
Last modified date:	02/10/05
Last modified by:	JEB
Comments:	Not reported

Click this hyperlink while viewing on your computer to access
13 additional CT MANIFEST: record(s) in the EDR Site Report.

A4 South 1/8-1/4 795 ft.

Relative: Lower

Actual: 378 ft.

EXXONMOBIL OIL CORP 30896
1447 E MAIN ST
WATERBURY, CT 06705

RCRA-SQG
FINDS
CT Spills
CT MANIFEST

1000841040
CTD983873753

Site 1 of 2 in cluster A

RCRAInfo:

Owner: EXXONMOBIL CORP
(999) 555-1212
EPA ID: CTD983873753

Contact: DALE VIATOR
(281) 654-8470

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

SPILL:

Year of Database:	2/13/2001 0:00:00	Case Number:	200100922
Who Took Spill:	912	Assigned To:	0
Report Date:	2/13/2001 0:00:00	Report Time:	2/13/2001 15:46:42
Date Release:	2/13/2001 0:00:00	Time Responded:	Not reported
Reported By:	MATTHEW O'NEIL	Phone:	860 5284723
Representing:	GEOLOGIC SERVICES CORP.		
Terminated:	YES	Recovd (Total):	0.00
Total (Water):	0.00	Facility Status:	Closed
Date Responded:	Not reported	Time Responded:	Not reported

Who Assigned Spill:	Not reported
Continuous Spill:	No
Released Substance:	GASOLINE
Qty:	0.00 (Gallons)
Emergency Measure:	TWO- TEN K UST'S AND ONE-12 K UST REMOVED , HISTORICAL CONTAMINATION FOUND ON SITE
Water Body:	Not reported
Discharger:	EXXON/ MOBIL CORP.
Telephone:	617 3812915
Discharger Addr:	Not reported
Dicharger City,St,Zip:	Not reported
Responsible Party:	Not reported
RP Address 1:	ELEANOR LUCARINI
RP City,St,Zip:	CT
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Address:	Not reported
Property Owner 1 City,ST,Zip:	Not reported

Historic:	No	Waterbody:	0
Qty Rec Water:	Not reported	Waterway:	Not reported
OPA:	Not reported	EPA:	Not reported
EPA Time:	Not reported	EPA Date:	Not reported
EPA Contact:	Not reported		
USCG Contact:	Not reported	USCG:	Not reported

EXXONMOBIL OIL CORP 30896 (Continued) **1000841040**

USCG Time:	Not reported	USCG Date:	Not reported
Spill Fund:	Not reported	Authorized By:	Not reported
Date Authorized:	Not reported	Time Authorized:	Not reported
OCSRD Rep:	Not reported	Accepted By:	Not reported
Time Authorized:	Not reported	Date Accepted:	Not reported
Transportation:	Not reported	Make:	Not reported
Registration:	Not reported	Tractor No:	Not reported
Trailer Registrtn:	Not reported		
Vehicle Operator:	Not reported	License No:	Not reported
Vehicle Owner:	Not reported	Owner Phone:	Not reported
Special Contact:	Not reported	Contractor Retained:	Not reported
Time Requested:	Not reported	Date Requested:	Not reported
Date Arrived:	Not reported	Time Arrived:	Not reported
Time Stamp:	2/13/2001 15:50:04		
Sr Inspector:	Ciasullo, Rich	At Inspctor:	**NO RESPONSE
Sign 1:	Not reported	Sign 2:	Not reported
Sign 3:	Not reported	Sign 4:	Not reported
Sign 5:	Not reported	Sign 6:	Not reported
Sign 7:	Not reported	User Stamp:	Not reported
Action ID:	17		
Action:	Removed Tank		
Other Action:	Not reported		
Action ID:	20		
Action:	Other		
Other Action:	SAMPLES OBTAINED, UNDER INVESTIGATION		
Agency ID:	3		
Agency:	Local Fire Marshal		
Other Agency:	Not reported		
DEP Bureau:	Not reported		
DEP Agency:	Not reported		
Agency ID:	8		
Agency:	DEP Dispatch		
Other Agency:	Not reported		
DEP Bureau:	Not reported		
DEP Agency:	Not reported		
Cause ID:	3		
Cause:	Inground Tank Failure		
Other Cause:	Not reported		
Media ID:	6		
Media:	Other		
Other Media:	SUBSURFACE SOILS		
Class ID:	8		
Class:	Commercial		
Other Class:	Not reported		
Release ID:	1		
Release Type:	petroleum		
Other Release:	Not reported		
Waterbody ID:	Not reported		
Waterbody:	Not reported		
Other Wtrbody:	Not reported		

CT MANIFEST:

Year:	1992
Manifest ID:	CTF0007501
TSDF EPA ID:	CTD021816889
TSDF Name:	UNITED OIL RECOVERY, INC.
TSDF Address:	136 GRACEY AVENUE

EXXONMOBIL OIL CORP 30896 (Continued) **1000841040**

TSDF City,St,Zip:	MERIDEN, CT 06450
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	01/14/92
Transporter EPA ID:	CTD004533063
Transporter Name:	KESSLER INSTALLATION CORP
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:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
Generator EPA ID:	CTD983873753
Gererator Phone:	7136567761
Generator Address:	Not reported
Generator City,State,Zip:	Not reported
Generator Country:	Not reported
Special Handling:	Yes
Discrepancies:	No
Date Shipped:	01/14/92
Date Received:	01/14/92
Last modified date:	04/27/04
Last modified by:	IG
Comments:	Not reported

Click this hyperlink while viewing on your computer to access
2 additional CT MANIFEST: record(s) in the EDR Site Report.

A5 **EAST MAIN EXXON** **UST** **U002027446**
South **1447 EAST MAIN STREET** **N/A**
1/8-1/4 **WATERBURY, CT 06705**
795 ft.

Site 2 of 2 in cluster A

Relative:
Lower

Actual:
378 ft.

UST:

Owner:	ALLIANCE ENERGY CORPORATION
Owner Address:	36 EAST INDUSTRIAL RD.
Owner City,St,Zip:	Branford, CT 06405
Facility Id:	3145
Alt. Facility ID:	151-3145
Latitude Degrees:	41
Latitude Minutes:	32
Latitude Seconds:	50
Longitude Degrees:	0
Longitude Minutes:	Not reported
Longitude Seconds:	15
Tank ID:	6
Alt. Tank ID:	C3R3
Tank Status:	**Permanently Out of Use**
Capacity:	10000
Substance:	Gasoline
Date Last Used:	1/11/1994
Closure Status:	**Tank removed from ground**
Tank Material:	Fiberglass Reinforced Plastic
2ndary Material:	None

EAST MAIN EXXON (Continued) **U002027446**

Pipe Material:	Fiberglass Reinforced Plastic
Pipe Mode Description:	None
Date Installed:	12/1/1988
Spill Installed:	No
Overfill Installed:	No

Owner:	ALLIANCE ENERGY CORPORATION
Owner Address:	36 EAST INDUSTRIAL RD.
Owner City,St,Zip:	Branford, CT 06405
Facility Id:	3145
Alt. Facility ID:	151-3145
Latitude Degrees:	41
Latitude Minutes:	32
Latitude Seconds:	50
Longitude Degrees:	0
Longitude Minutes:	Not reported
Longitude Seconds:	15
Tank ID:	1
Alt. Tank ID:	A1
Tank Status:	**Permanently Out of Use**
Capacity:	8000
Substance:	Gasoline
Date Last Used:	11/1/1988
Closure Status:	**Removed**
Tank Material:	Fiberglass Reinforced Plastic
2ndary Material:	None
Pipe Material:	Galvanized Steel
Pipe Mode Description:	None
Date Installed:	1/1/1974
Spill Installed:	No
Overfill Installed:	Yes

Owner:	ALLIANCE ENERGY CORPORATION
Owner Address:	36 EAST INDUSTRIAL RD.
Owner City,St,Zip:	Branford, CT 06405
Facility Id:	3145
Alt. Facility ID:	151-3145
Latitude Degrees:	41
Latitude Minutes:	32
Latitude Seconds:	50
Longitude Degrees:	0
Longitude Minutes:	Not reported
Longitude Seconds:	15
Tank ID:	2
Alt. Tank ID:	A1R1
Tank Status:	**Permanently Out of Use**
Capacity:	12000
Substance:	Gasoline
Date Last Used:	1/1/1994
Closure Status:	**Tank removed from ground**
Tank Material:	Fiberglass Reinforced Plastic
2ndary Material:	None
Pipe Material:	Fiberglass Reinforced Plastic
Pipe Mode Description:	None
Date Installed:	12/1/1988
Spill Installed:	No
Overfill Installed:	No

EAST MAIN EXXON (Continued) **U002027446**

Owner:	ALLIANCE ENERGY CORPORATION
Owner Address:	36 EAST INDUSTRIAL RD.
Owner City,St,Zip:	Branford, CT 06405
Facility Id:	3145
Alt. Facility ID:	151-3145
Latitude Degrees:	41
Latitude Minutes:	32
Latitude Seconds:	50
Longitude Degrees:	0
Longitude Minutes:	Not reported
Longitude Seconds:	15
Tank ID:	3
Alt. Tank ID:	B2
Tank Status:	**Permanently Out of Use**
Capacity:	6000
Substance:	Gasoline
Date Last Used:	11/1/1988
Closure Status:	**Removed**
Tank Material:	Fiberglass Reinforced Plastic
2ndary Material:	None
Pipe Material:	Galvanized Steel
Pipe Mode Description:	None
Date Installed:	1/1/1974
Spill Installed:	No
Overfill Installed:	Yes

Owner:	ALLIANCE ENERGY CORPORATION
Owner Address:	36 EAST INDUSTRIAL RD.
Owner City,St,Zip:	Branford, CT 06405
Facility Id:	3145
Alt. Facility ID:	151-3145
Latitude Degrees:	41
Latitude Minutes:	32
Latitude Seconds:	50
Longitude Degrees:	0
Longitude Minutes:	Not reported
Longitude Seconds:	15
Tank ID:	5
Alt. Tank ID:	C3
Tank Status:	**Permanently Out of Use**
Capacity:	6000
Substance:	Gasoline
Date Last Used:	11/1/1988
Closure Status:	**Removed**
Tank Material:	Fiberglass Reinforced Plastic
2ndary Material:	None
Pipe Material:	Galvanized Steel
Pipe Mode Description:	None
Date Installed:	1/1/1974
Spill Installed:	No
Overfill Installed:	Yes

Owner:	ALLIANCE ENERGY CORPORATION
Owner Address:	36 EAST INDUSTRIAL RD.
Owner City,St,Zip:	Branford, CT 06405
Facility Id:	3145
Alt. Facility ID:	151-3145

EAST MAIN EXXON (Continued) **U002027446**

Latitude Degrees:	41
Latitude Minutes:	32
Latitude Seconds:	50
Longitude Degrees:	0
Longitude Minutes:	Not reported
Longitude Seconds:	15
Tank ID:	7
Alt. Tank ID:	D4
Tank Status:	**Permanently Out of Use**
Capacity:	2000
Substance:	Used Oil
Date Last Used:	11/1/1988
Closure Status:	**Removed**
Tank Material:	Asphalt Coated or Bare Steel
2ndary Material:	None
Pipe Material:	Galvanized Steel
Pipe Mode Description:	None
Date Installed:	1/1/1974
Spill Installed:	No
Overfill Installed:	No

Owner:	ALLIANCE ENERGY CORPORATION
Owner Address:	36 EAST INDUSTRIAL RD.
Owner City,St,Zip:	Branford, CT 06405
Facility Id:	3145
Alt. Facility ID:	151-3145
Latitude Degrees:	41
Latitude Minutes:	32
Latitude Seconds:	50
Longitude Degrees:	0
Longitude Minutes:	Not reported
Longitude Seconds:	15
Tank ID:	8
Alt. Tank ID:	D4R4
Tank Status:	**Permanently Out of Use**
Capacity:	1000
Substance:	Used Oil
Date Last Used:	1/11/1994
Closure Status:	**Tank removed from ground**
Tank Material:	Fiberglass Reinforced Plastic
2ndary Material:	None
Pipe Material:	Fiberglass Reinforced Plastic
Pipe Mode Description:	None
Date Installed:	12/1/1988
Spill Installed:	No
Overfill Installed:	No

Owner:	ALLIANCE ENERGY CORPORATION
Owner Address:	36 EAST INDUSTRIAL RD.
Owner City,St,Zip:	Branford, CT 06405
Facility Id:	3145
Alt. Facility ID:	151-3145
Latitude Degrees:	41
Latitude Minutes:	32
Latitude Seconds:	50
Longitude Degrees:	0
Longitude Minutes:	Not reported

EAST MAIN EXXON (Continued) **U002027446**

Longitude Seconds:	15
Tank ID:	4
Alt. Tank ID:	B2R2
Tank Status:	**Permanently Out of Use**
Capacity:	10000
Substance:	Gasoline
Date Last Used:	1/11/1994
Closure Status:	**Tank removed from ground**
Tank Material:	Fiberglass Reinforced Plastic
2ndary Material:	None
Pipe Material:	Fiberglass Reinforced Plastic
Pipe Mode Description:	None
Date Installed:	12/1/1988
Spill Installed:	No
Overfill Installed:	No

B6 **FUJIFILM/WALGREENS TRAINING CENTER** **CT MANIFEST** **1007978527**
South **11 MERIDEN ROAD** **N/A**
1/8-1/4 **WATERBURY, CT 06705**
811 ft.

Site 1 of 3 in cluster B

Relative:
Lower

Actual:
386 ft.

CT MANIFEST:

Year:	2002
Manifest ID:	MAQ200295
TSDF EPA ID:	MAD096287354
TSDF Name:	SAFETY-KLEEN SYSTEMS, INC.
TSDF Address:	224 EAST MAIN STREET
TSDF City,St,Zip:	W BROOKFIELD, MA 01585
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	10/30/02
Transporter EPA ID:	SCR000075150
Transporter Name:	SAFETY-KLEEN SYSTEMS, INC.
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:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
Generator EPA ID:	CTP000026898
Gererator Phone:	2039999999
Generator Address:	Not reported
Generator City,State,Zip:	Not reported
Generator Country:	Not reported
Special Handling:	Not reported
Discrepancies:	Not reported
Date Shipped:	10/30/02
Date Received:	11/01/02
Last modified date:	04/27/04
Last modified by:	IG
Comments:	Not reported

Click this hyperlink while viewing on your computer to access additional CT MANIFEST: detail in the EDR Site Report.

B7 **SUN PETROLEUM** **UST** **U002027204**
South **12 MERIDEN RD** **N/A**
1/8-1/4 **WATERBURY, CT 06710**
811 ft.

Site 2 of 3 in cluster B

Relative:
Lower

Actual:
386 ft.

UST:

Owner:	WIHBEY & OBAR
Owner Address:	141 MERIDEN RD.
Owner City,St,Zip:	Waterbury, CT 06705
Facility Id:	2807
Alt. Facility ID:	151-2807
Latitude Degrees:	41
Latitude Minutes:	32
Latitude Seconds:	48
Longitude Degrees:	0
Longitude Minutes:	Not reported
Longitude Seconds:	16
Tank ID:	4
Alt. Tank ID:	D4
Tank Status:	**Permanently Out of Use**
Capacity:	1000
Substance:	Gasoline
Date Last Used:	1/1/1987
Closure Status:	**Tank removed from ground**
Tank Material:	Asphalt Coated or Bare Steel
2ndary Material:	None
Pipe Material:	Galvanized Steel
Pipe Mode Description:	None
Date Installed:	1/1/1955
Spill Installed:	No
Overfill Installed:	No

Owner:	WIHBEY & OBAR
Owner Address:	141 MERIDEN RD.
Owner City,St,Zip:	Waterbury, CT 06705
Facility Id:	2807
Alt. Facility ID:	151-2807
Latitude Degrees:	41
Latitude Minutes:	32
Latitude Seconds:	48
Longitude Degrees:	0
Longitude Minutes:	Not reported
Longitude Seconds:	16
Tank ID:	2
Alt. Tank ID:	B2
Tank Status:	**Permanently Out of Use**
Capacity:	3000
Substance:	Gasoline
Date Last Used:	1/1/1987
Closure Status:	**Tank removed from ground**
Tank Material:	Asphalt Coated or Bare Steel
2ndary Material:	None
Pipe Material:	Galvanized Steel
Pipe Mode Description:	None
Date Installed:	1/1/1955
Spill Installed:	No
Overfill Installed:	No

SUN PETROLEUM (Continued) **U002027204**

Owner:	WIHBEY & OBAR
Owner Address:	141 MERIDEN RD.
Owner City,St,Zip:	Waterbury, CT 06705
Facility Id:	2807
Alt. Facility ID:	151-2807
Latitude Degrees:	41
Latitude Minutes:	32
Latitude Seconds:	48
Longitude Degrees:	0
Longitude Minutes:	Not reported
Longitude Seconds:	16
Tank ID:	1
Alt. Tank ID:	A1
Tank Status:	**Permanently Out of Use**
Capacity:	6000
Substance:	Gasoline
Date Last Used:	1/1/1987
Closure Status:	**Tank removed from ground**
Tank Material:	Asphalt Coated or Bare Steel
2ndary Material:	None
Pipe Material:	Galvanized Steel
Pipe Mode Description:	None
Date Installed:	1/1/1960
Spill Installed:	No
Overfill Installed:	No

Owner:	WIHBEY & OBAR
Owner Address:	141 MERIDEN RD.
Owner City,St,Zip:	Waterbury, CT 06705
Facility Id:	2807
Alt. Facility ID:	151-2807
Latitude Degrees:	41
Latitude Minutes:	32
Latitude Seconds:	48
Longitude Degrees:	0
Longitude Minutes:	Not reported
Longitude Seconds:	16
Tank ID:	3
Alt. Tank ID:	C3
Tank Status:	**Permanently Out of Use**
Capacity:	3000
Substance:	Gasoline
Date Last Used:	1/1/1987
Closure Status:	**Tank removed from ground**
Tank Material:	Asphalt Coated or Bare Steel
2ndary Material:	None
Pipe Material:	Galvanized Steel
Pipe Mode Description:	None
Date Installed:	1/1/1955
Spill Installed:	No
Overfill Installed:	No

C8 East 1/8-1/4 828 ft.

Relative: Lower

Actual: 433 ft.

EXPRESSWAY AUTO INC
93 MERIDEN RD
WATERBURY, CT 06705

Site 1 of 4 in cluster C

RCRA-SQG
FINDS
LUST
UST
CT MANIFEST

1000356465
CTD018852269

RCRAInfo:

Owner: LOUIS DICOSTANZO
(203) 555-1212
EPA ID: CTD018852269

Contact: LEON JOHNSON
(203) 574-2828

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

LUST:

LUST Case Id:	28919
Cost Recovery Spill Case #:	Not reported
Site Case Id:	Not reported
Old SITS Number:	Not reported
UST Site Id:	Not reported
LUST ID:	774
Case Log Id:	Not reported
Monthly Report Id:	0
UST Facility Id:	3625
UST Owner Id:	4107
UST Event Id:	773
Contact Info:	Not reported
Facility City Num:	151
Incident Date:	02/01/89
Entry Date:	Not reported
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact City,St,Zip:	0
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
2nd Contact:	Not reported
2nd Contact Address:	Not reported
2nd Contact City,St,Zip:	0
2nd Contact Address 2:	Not reported
2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported
2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported

EXPRESSWAY AUTO INC (Continued) **1000356465**

Referral Source:	Not reported
Date Referred:	Not reported
Private Heating Fuel:	False
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other Release:	Not reported
No Release:	False
No LUST Site:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	False
Responsible Party:	False
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	0
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
LUST Owner Id:	Not reported
Investigator Id:	19
Follow Update:	Not reported
Lust Status:	Cleanup Initiated
Processing Status:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Effected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No

EXPRESSWAY AUTO INC (Continued) **1000356465**

Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
Follow Up:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV COmments:	Not reported
Release Desc:	Not reported
Running Comments:	A 2/1/89 spill report mentions releases in 1-3k and 2-4k gasoline, 1-550 WO, and 1-3k unknown USTs. Referred to WCU. Vapor was detected in a sewer.
Work Performed:	Not reported

UST:

Owner:	LOUIS C DICOSTANZO
Owner Address:	74 STRATHMORE RD.

EXPRESSWAY AUTO INC (Continued) **1000356465**

Owner City,St,Zip:	Middlebury, CT 06762
Facility Id:	3625
Alt. Facility ID:	151-3625
Latitude Degrees:	41
Latitude Minutes:	15
Latitude Seconds:	46
Longitude Degrees:	7
Longitude Minutes:	32
Longitude Seconds:	14
Tank ID:	2
Alt. Tank ID:	A1
Tank Status:	**Currently In Use**
Capacity:	8000
Substance:	Gasoline
Date Last Used:	Not reported
Closure Status:	**Not reported**
Tank Material:	Cathodically Protected Steel
2ndary Material:	None
Pipe Material:	Bare Steel
Pipe Mode Description:	Cathodically Protected
Date Installed:	3/1/1989
Spill Installed:	No
Overfill Installed:	No

Owner:	LOUIS C DICOSTANZO
Owner Address:	74 STRATHMORE RD.
Owner City,St,Zip:	Middlebury, CT 06762
Facility Id:	3625
Alt. Facility ID:	151-3625
Latitude Degrees:	41
Latitude Minutes:	15
Latitude Seconds:	46
Longitude Degrees:	7
Longitude Minutes:	32
Longitude Seconds:	14
Tank ID:	1
Alt. Tank ID:	A-1
Tank Status:	**Permanently Out of Use**
Capacity:	4000
Substance:	Gasoline
Date Last Used:	1/1/1989
Closure Status:	**Tank removed from ground**
Tank Material:	Asphalt Coated or Bare Steel
2ndary Material:	None
Pipe Material:	Galvanized Steel
Pipe Mode Description:	None
Date Installed:	9/1/1980
Spill Installed:	No
Overfill Installed:	No

Owner:	LOUIS C DICOSTANZO
Owner Address:	74 STRATHMORE RD.
Owner City,St,Zip:	Middlebury, CT 06762
Facility Id:	3625
Alt. Facility ID:	151-3625
Latitude Degrees:	41
Latitude Minutes:	15

EXPRESSWAY AUTO INC (Continued) **1000356465**

Latitude Seconds:	46
Longitude Degrees:	7
Longitude Minutes:	32
Longitude Seconds:	14
Tank ID:	7
Alt. Tank ID:	D-4
Tank Status:	**Permanently Out of Use**
Capacity:	550
Substance:	Used Oil
Date Last Used:	1/1/1989
Closure Status:	**Tank removed from ground**
Tank Material:	Asphalt Coated or Bare Steel
2ndary Material:	None
Pipe Material:	Bare Steel
Pipe Mode Description:	None
Date Installed:	4/1/1971
Spill Installed:	No
Overfill Installed:	No

Owner:	LOUIS C DICOSTANZO
Owner Address:	74 STRATHMORE RD.
Owner City,St,Zip:	Middlebury, CT 06762
Facility Id:	3625
Alt. Facility ID:	151-3625
Latitude Degrees:	41
Latitude Minutes:	15
Latitude Seconds:	46
Longitude Degrees:	7
Longitude Minutes:	32
Longitude Seconds:	14
Tank ID:	6
Alt. Tank ID:	C-3
Tank Status:	**Permanently Out of Use**
Capacity:	3000
Substance:	Gasoline
Date Last Used:	1/1/1989
Closure Status:	**Tank removed from ground**
Tank Material:	Fiberglass Reinforced Plastic
2ndary Material:	None
Pipe Material:	Bare Steel
Pipe Mode Description:	None
Date Installed:	3/1/1979
Spill Installed:	No
Overfill Installed:	No

Owner:	LOUIS C DICOSTANZO
Owner Address:	74 STRATHMORE RD.
Owner City,St,Zip:	Middlebury, CT 06762
Facility Id:	3625
Alt. Facility ID:	151-3625
Latitude Degrees:	41
Latitude Minutes:	15
Latitude Seconds:	46
Longitude Degrees:	7
Longitude Minutes:	32
Longitude Seconds:	14
Tank ID:	5

EXPRESSWAY AUTO INC (Continued) **1000356465**

Alt. Tank ID:	B-2
Tank Status:	**Permanently Out of Use**
Capacity:	4000
Substance:	Gasoline
Date Last Used:	1/1/1989
Closure Status:	**Tank removed from ground**
Tank Material:	Asphalt Coated or Bare Steel
2ndary Material:	None
Pipe Material:	Galvanized Steel
Pipe Mode Description:	None
Date Installed:	6/1/1985
Spill Installed:	No
Overfill Installed:	No

Owner:	LOUIS C DICOSTANZO
Owner Address:	74 STRATHMORE RD.
Owner City,St,Zip:	Middlebury, CT 06762
Facility Id:	3625
Alt. Facility ID:	151-3625
Latitude Degrees:	41
Latitude Minutes:	15
Latitude Seconds:	46
Longitude Degrees:	7
Longitude Minutes:	32
Longitude Seconds:	14
Tank ID:	4
Alt. Tank ID:	A3
Tank Status:	**Currently In Use**
Capacity:	8000
Substance:	Gasoline
Date Last Used:	Not reported
Closure Status:	**Not reported**
Tank Material:	Cathodically Protected Steel
2ndary Material:	None
Pipe Material:	Bare Steel
Pipe Mode Description:	Cathodically Protected
Date Installed:	3/1/1989
Spill Installed:	No
Overfill Installed:	No

Owner:	LOUIS C DICOSTANZO
Owner Address:	74 STRATHMORE RD.
Owner City,St,Zip:	Middlebury, CT 06762
Facility Id:	3625
Alt. Facility ID:	151-3625
Latitude Degrees:	41
Latitude Minutes:	15
Latitude Seconds:	46
Longitude Degrees:	7
Longitude Minutes:	32
Longitude Seconds:	14
Tank ID:	3
Alt. Tank ID:	A2
Tank Status:	**Currently In Use**
Capacity:	8000
Substance:	Gasoline
Date Last Used:	Not reported

EXPRESSWAY AUTO INC (Continued) **1000356465**

Closure Status:	**Not reported**
Tank Material:	Cathodically Protected Steel
2ndary Material:	None
Pipe Material:	Bare Steel
Pipe Mode Description:	Cathodically Protected
Date Installed:	3/1/1989
Spill Installed:	No
Overfill Installed:	No

CT MANIFEST:

Year:	2004
Manifest ID:	ctf1064823
TSDF EPA ID:	CTD021816889
TSDF Name:	UNITED OIL RECOVERY, INC.
TSDF Address:	14 WEST MAIN STREET
TSDF City,St,Zip:	MERIDEN, CT 06451
TSDF Country:	USA
TSDF Telephone:	(203)238-6745
Transport Date:	04/22/04
Transporter EPA ID:	CTD021816889
Transporter Name:	UNITED OIL RECOVERY, INC.
Transporter Country:	USA
Transporter Phone:	(203)238-6745
Trans 2 Date:	/ /
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
Generator EPA ID:	ctd018852269
Gererator Phone:	2035742828
Generator Address:	93 MERIDEN RD
Generator City,State,Zip:	WATERBURY, CT 06705
Generator Country:	USA
Special Handling:	Not reported
Discrepancies:	Not reported
Date Shipped:	04/22/04
Date Received:	04/22/04
Last modified date:	01/10/05
Last modified by:	JEB
Comments:	Not reported

Click this hyperlink while viewing on your computer to access
53 additional CT MANIFEST: record(s) in the EDR Site Report.

C9 **EXPRESSWAY AUTO CLINIC, INC.** **CT MANIFEST** **1007895401**
East **93 MERIDEN ROAD** **N/A**
1/8-1/4 **WATERBURY, CT 06705**
835 ft.

Site 2 of 4 in cluster C

Relative:
Lower

Actual:
433 ft.

CT MANIFEST:

Year:	1989
Manifest ID:	CTC0190835
TSDF EPA ID:	CTD021816889
TSDF Name:	UNITED INDUSTRIAL SERVICES, INC.

EXPRESSWAY AUTO CLINIC, INC. (Continued) **1007895401**

TSDF Address:	136 GRACEY AVENUE
TSDF City,St,Zip:	MERIDEN, CT 06450
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	02/09/89
Transporter EPA ID:	CTD021816889
Transporter Name:	UNITED INDUSTRIAL SERVICES, INC.
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:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
Generator EPA ID:	CTP000008908
Gererator Phone:	2035742828
Generator Address:	Not reported
Generator City,State,Zip:	Not reported
Generator Country:	Not reported
Special Handling:	No
Discrepancies:	No
Date Shipped:	02/09/89
Date Received:	02/09/89
Last modified date:	04/27/04
Last modified by:	IG
Comments:	Not reported

Click this hyperlink while viewing on your computer to access additional CT MANIFEST: detail in the EDR Site Report.

D10 **ERNIE'S AUTO BODY WORKS, INC.** **CT MANIFEST** **1007887874**
ENE **159 MANOR AVENUE** **N/A**
1/8-1/4 **WATERBURY, CT 06705**
877 ft.

Site 1 of 2 in cluster D

Relative:
Higher

Actual:
442 ft.

CT MANIFEST:

Year:	1986
Manifest ID:	NJA0249487
TSDF EPA ID:	NJD002454544
TSDF Name:	MARISOL INCORPORATED,
TSDF Address:	125 FACTORY LANE
TSDF City,St,Zip:	MIDDLESEX, NJ 08846
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	01/17/86
Transporter EPA ID:	NJD980787147
Transporter Name:	WELLINGTON, LTD.
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:	CT
Trans 2 Country:	USA

ERNIE'S AUTO BODY WORKS, INC. (Continued) **1007887874**

Trans 2 Phone:	Not reported
Generator EPA ID:	CTP000005738
Gererator Phone:	2037567884
Generator Address:	Not reported
Generator City,State,Zip:	Not reported
Generator Country:	Not reported
Special Handling:	No
Discrepancies:	No
Date Shipped:	01/17/86
Date Received:	01/18/86
Last modified date:	04/27/04
Last modified by:	IG
Comments:	Not reported

Click this hyperlink while viewing on your computer to access additional CT MANIFEST: detail in the EDR Site Report.

D11
ENE
1/8-1/4
877 ft.

Relative:
Higher

Actual:
442 ft.

ERNIES AUTO BODY WORKS INC **RCRA-SQG** **1000249441**
159 MANOR AVE **FINDS** **CTD981893290**
WATERBURY, CT 06705 **CT MANIFEST**

Site 2 of 2 in cluster D

RCRAInfo:

Owner:	JOHN J O BAR (203) 555-1212
EPA ID:	CTD981893290
Contact:	JOHN-J OBAR (203) 756-7884
Classification:	Small Quantity Generator
TSDF Activities:	Not reported
Violation Status:	No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CT MANIFEST:

Year:	1988
Manifest ID:	NJA0381593
TSDF EPA ID:	NJD002454544
TSDF Name:	MARISOL INCORPORATED,
TSDF Address:	125 FACTORY LANE
TSDF City,St,Zip:	MIDDLESEX, NJ 08846
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	06/22/88
Transporter EPA ID:	NJD980787147
Transporter Name:	WELLINGTON, LTD.
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	/ /
Trans 2 EPA ID:	Not reported

ERNIES AUTO BODY WORKS INC (Continued) **1000249441**

Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
Generator EPA ID:	CTD981893290
Gererator Phone:	2037567884
Generator Address:	Not reported
Generator City,State,Zip:	Not reported
Generator Country:	Not reported
Special Handling:	Yes
Discrepancies:	No
Date Shipped:	06/22/88
Date Received:	06/23/88
Last modified date:	04/27/04
Last modified by:	IG
Comments:	Not reported

Click this hyperlink while viewing on your computer to access
2 additional CT MANIFEST: record(s) in the EDR Site Report.

C12 **INTERSTATE BRANDS CORP** **RCRA-SQG** **1000731852**
East **105 MERIDEN RD** **FINDS** **CTD122212293**
1/8-1/4 **WATERBURY, CT 06705** **CT MANIFEST**
896 ft.

Site 3 of 4 in cluster C

Relative:
Lower

Actual:
436 ft.

RCRAInfo:

Owner:	PURINA RALSTON (203) 555-1212
EPA ID:	CTD122212293
Contact:	BRIAN MORFORD (508) 655-2150
Classification:	Small Quantity Generator
TSDF Activities:	Not reported
Violation Status:	No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CT MANIFEST:

Year:	2004
Manifest ID:	CTF1058886
TSDF EPA ID:	CTD021816889
TSDF Name:	UNITED OIL RECOVERY, INC.
TSDF Address:	14 WEST MAIN STREET
TSDF City,St,Zip:	MERIDEN, CT 06451
TSDF Country:	USA
TSDF Telephone:	(203)238-6745
Transport Date:	07/16/04
Transporter EPA ID:	CTD021816889
Transporter Name:	UNITED OIL RECOVERY, INC.

INTERSTATE BRANDS CORP (Continued) **1000731852**

Transporter Country:	USA
Transporter Phone:	(203)238-6745
Trans 2 Date:	/ /
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
Generator EPA ID:	CTD122212293
Gererator Phone:	5086552150
Generator Address:	105 MERIDEN RD
Generator City,State,Zip:	WATERBURY, CT 06705
Generator Country:	USA
Special Handling:	Not reported
Discrepancies:	Not reported
Date Shipped:	07/16/04
Date Received:	07/16/04
Last modified date:	01/14/05
Last modified by:	CYF
Comments:	Not reported

Click this hyperlink while viewing on your computer to access
80 additional CT MANIFEST: record(s) in the EDR Site Report.

C13 **WONDER BREAD** **UST** **U000849149**
East **105 MERIDEN RD** **N/A**
1/8-1/4 **WATERBURY, CT 06710**
896 ft.

Site 4 of 4 in cluster C

Relative:
Lower

Actual:
436 ft.

UST:

Owner:	CONTINENTAL BAKING COMPANY
Owner Address:	330 SPEEN ST.
Owner City,St,Zip:	Natick, MA 01760
Facility Id:	10572
Alt. Facility ID:	151-10572
Latitude Degrees:	4
Latitude Minutes:	4
Latitude Seconds:	51
Longitude Degrees:	7
Longitude Minutes:	14
Longitude Seconds:	51
Tank ID:	2
Alt. Tank ID:	2
Tank Status:	**Currently In Use**
Capacity:	8000
Substance:	Diesel
Date Last Used:	Not reported
Closure Status:	**Not reported**
Tank Material:	Cathodically Protected Steel
2ndary Material:	Double-Walled
Pipe Material:	Bare Steel
Pipe Mode Description:	None
Date Installed:	8/1/1989
Spill Installed:	No
Overfill Installed:	No

WONDER BREAD (Continued) **U000849149**

Owner:	CONTINENTAL BAKING COMPANY
Owner Address:	330 SPEEN ST.
Owner City,St,Zip:	Natick, MA 01760
Facility Id:	10572
Alt. Facility ID:	151-10572
Latitude Degrees:	4
Latitude Minutes:	4
Latitude Seconds:	51
Longitude Degrees:	7
Longitude Minutes:	14
Longitude Seconds:	51
Tank ID:	3
Alt. Tank ID:	3
Tank Status:	**Permanently Out of Use**
Capacity:	2000
Substance:	Heating Oil
Date Last Used:	8/1/1989
Closure Status:	**Closed in Place**
Tank Material:	Asphalt Coated or Bare Steel
2ndary Material:	None
Pipe Material:	Bare Steel
Pipe Mode Description:	None
Date Installed:	1/1/1960
Spill Installed:	No
Overfill Installed:	No

Owner:	CONTINENTAL BAKING COMPANY
Owner Address:	330 SPEEN ST.
Owner City,St,Zip:	Natick, MA 01760
Facility Id:	10572
Alt. Facility ID:	151-10572
Latitude Degrees:	4
Latitude Minutes:	4
Latitude Seconds:	51
Longitude Degrees:	7
Longitude Minutes:	14
Longitude Seconds:	51
Tank ID:	4
Alt. Tank ID:	4
Tank Status:	**Permanently Out of Use**
Capacity:	500
Substance:	Used Oil
Date Last Used:	8/1/1989
Closure Status:	**Closed in Place**
Tank Material:	Asphalt Coated or Bare Steel
2ndary Material:	None
Pipe Material:	Bare Steel
Pipe Mode Description:	None
Date Installed:	1/1/1960
Spill Installed:	No
Overfill Installed:	No

Owner:	CONTINENTAL BAKING COMPANY
Owner Address:	330 SPEEN ST.
Owner City,St,Zip:	Natick, MA 01760
Facility Id:	10572
Alt. Facility ID:	151-10572

WONDER BREAD (Continued) **U000849149**

Latitude Degrees:	4
Latitude Minutes:	4
Latitude Seconds:	51
Longitude Degrees:	7
Longitude Minutes:	14
Longitude Seconds:	51
Tank ID:	1
Alt. Tank ID:	1
Tank Status:	**Currently In Use**
Capacity:	6000
Substance:	Gasoline
Date Last Used:	Not reported
Closure Status:	**Not reported**
Tank Material:	Asphalt Coated or Bare Steel
2ndary Material:	None
Pipe Material:	Bare Steel
Pipe Mode Description:	None
Date Installed:	1/1/1980
Spill Installed:	No
Overfill Installed:	No

B14 **CHECKERED FLAG CITGO, INC.** **UST** **U004009136**
South **1485 E MAIN ST** **N/A**
1/8-1/4 **WATERBURY, CT 06705**
914 ft.

Site 3 of 3 in cluster B

Relative:
Lower

Actual:
378 ft.

UST:

Owner:	PASQUALE TISO
Owner Address:	98 MIDWOOD AVE.
Owner City,St,Zip:	Wolcott, CT 06716
Facility Id:	2780
Alt. Facility ID:	151-2780
Latitude Degrees:	41
Latitude Minutes:	32
Latitude Seconds:	48
Longitude Degrees:	0
Longitude Minutes:	Not reported
Longitude Seconds:	14
Tank ID:	7
Alt. Tank ID:	C3
Tank Status:	**Currently In Use**
Capacity:	8000
Substance:	Gasoline
Date Last Used:	Not reported
Closure Status:	**Not reported**
Tank Material:	Cathodically Protected Steel
2ndary Material:	Double-Walled
Pipe Material:	Other
Pipe Mode Description:	Secondary Containment
Date Installed:	8/1/1993
Spill Installed:	No
Overfill Installed:	No

Owner:	PASQUALE TISO
Owner Address:	98 MIDWOOD AVE.
Owner City,St,Zip:	Wolcott, CT 06716
Facility Id:	2780

CHECKERED FLAG CITGO, INC. (Continued) **U004009136**

Alt. Facility ID:	151-2780
Latitude Degrees:	41
Latitude Minutes:	32
Latitude Seconds:	48
Longitude Degrees:	0
Longitude Minutes:	Not reported
Longitude Seconds:	14
Tank ID:	5
Alt. Tank ID:	B-1
Tank Status:	**Currently In Use**
Capacity:	500
Substance:	Gasoline
Date Last Used:	Not reported
Closure Status:	**Not reported**
Tank Material:	Asphalt Coated or Bare Steel
2ndary Material:	None
Pipe Material:	Galvanized Steel
Pipe Mode Description:	None
Date Installed:	1/1/1950
Spill Installed:	No
Overfill Installed:	No

Owner:	PASQUALE TISO
Owner Address:	98 MIDWOOD AVE.
Owner City,St,Zip:	Wolcott, CT 06716
Facility Id:	2780
Alt. Facility ID:	151-2780
Latitude Degrees:	41
Latitude Minutes:	32
Latitude Seconds:	48
Longitude Degrees:	0
Longitude Minutes:	Not reported
Longitude Seconds:	14
Tank ID:	4
Alt. Tank ID:	A-4
Tank Status:	**Currently In Use**
Capacity:	5000
Substance:	Gasoline
Date Last Used:	Not reported
Closure Status:	**Not reported**
Tank Material:	Asphalt Coated or Bare Steel
2ndary Material:	None
Pipe Material:	Bare Steel
Pipe Mode Description:	None
Date Installed:	1/1/1950
Spill Installed:	No
Overfill Installed:	No

Owner:	PASQUALE TISO
Owner Address:	98 MIDWOOD AVE.
Owner City,St,Zip:	Wolcott, CT 06716
Facility Id:	2780
Alt. Facility ID:	151-2780
Latitude Degrees:	41
Latitude Minutes:	32
Latitude Seconds:	48
Longitude Degrees:	0

CHECKERED FLAG CITGO, INC. (Continued) **U004009136**

Longitude Minutes:	Not reported
Longitude Seconds:	14
Tank ID:	3
Alt. Tank ID:	A-3
Tank Status:	**Currently In Use**
Capacity:	5000
Substance:	Gasoline
Date Last Used:	Not reported
Closure Status:	**Not reported**
Tank Material:	Asphalt Coated or Bare Steel
2ndary Material:	None
Pipe Material:	Bare Steel
Pipe Mode Description:	None
Date Installed:	1/1/1950
Spill Installed:	No
Overfill Installed:	No

Owner:	PASQUALE TISO
Owner Address:	98 MIDWOOD AVE.
Owner City,St,Zip:	Wolcott, CT 06716
Facility Id:	2780
Alt. Facility ID:	151-2780
Latitude Degrees:	41
Latitude Minutes:	32
Latitude Seconds:	48
Longitude Degrees:	0
Longitude Minutes:	Not reported
Longitude Seconds:	14
Tank ID:	6
Alt. Tank ID:	B2
Tank Status:	**Currently In Use**
Capacity:	8000
Substance:	Gasoline
Date Last Used:	Not reported
Closure Status:	**Not reported**
Tank Material:	Cathodically Protected Steel
2ndary Material:	Double-Walled
Pipe Material:	Other
Pipe Mode Description:	Secondary Containment
Date Installed:	8/1/1993
Spill Installed:	No
Overfill Installed:	No

Owner:	PASQUALE TISO
Owner Address:	98 MIDWOOD AVE.
Owner City,St,Zip:	Wolcott, CT 06716
Facility Id:	2780
Alt. Facility ID:	151-2780
Latitude Degrees:	41
Latitude Minutes:	32
Latitude Seconds:	48
Longitude Degrees:	0
Longitude Minutes:	Not reported
Longitude Seconds:	14
Tank ID:	2
Alt. Tank ID:	A-2
Tank Status:	**Currently In Use**

CHECKERED FLAG CITGO, INC. (Continued) **U004009136**

Capacity:	3000
Substance:	Gasoline
Date Last Used:	Not reported
Closure Status:	**Not reported**
Tank Material:	Asphalt Coated or Bare Steel
2ndary Material:	None
Pipe Material:	Bare Steel
Pipe Mode Description:	None
Date Installed:	1/1/1950
Spill Installed:	No
Overfill Installed:	No

Owner:	PASQUALE TISO
Owner Address:	98 MIDWOOD AVE.
Owner City,St,Zip:	Wolcott, CT 06716
Facility Id:	2780
Alt. Facility ID:	151-2780
Latitude Degrees:	41
Latitude Minutes:	32
Latitude Seconds:	48
Longitude Degrees:	0
Longitude Minutes:	Not reported
Longitude Seconds:	14
Tank ID:	1
Alt. Tank ID:	A-1
Tank Status:	**Currently In Use**
Capacity:	4000
Substance:	Gasoline
Date Last Used:	Not reported
Closure Status:	**Not reported**
Tank Material:	Asphalt Coated or Bare Steel
2ndary Material:	None
Pipe Material:	Bare Steel
Pipe Mode Description:	None
Date Installed:	1/1/1950
Spill Installed:	No
Overfill Installed:	No

15
North
1/8-1/4
1071 ft.

SHELL OIL COMPANY
350 WOLCOTT STREET
WATERBURY, CT 06701

CT MANIFEST **1007914947**
N/A

Relative:
Higher

Actual:
490 ft.

CT MANIFEST:

Year:	1992
Manifest ID:	MAG088649
TSDF EPA ID:	MAD052924495
TSDF Name:	ZECCO, INC. D/B/A NORTHBORO WASTE DISPOSAL
TSDF Address:	345 WEST MAIN STREET
TSDF City,St,Zip:	NORTHBORO, MA 01532
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	03/11/92
Transporter EPA ID:	MAD052924495
Transporter Name:	ZECCO, INC. D/B/A NORTHBORO WASTE DISPOSAL
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	/ /

SHELL OIL COMPANY (Continued) **1007914947**

Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
Generator EPA ID:	CTP000013419
Gererator Phone:	2036787008
Generator Address:	Not reported
Generator City,State,Zip:	Not reported
Generator Country:	Not reported
Special Handling:	Yes
Discrepancies:	Yes
Date Shipped:	03/11/92
Date Received:	03/17/92
Last modified date:	04/27/04
Last modified by:	IG
Comments:	Not reported

Click this hyperlink while viewing on your computer to access additional CT MANIFEST: detail in the EDR Site Report.

E16 **MERIDEN MANOR SHELL** **LUST** **S105458004**
East **131 MERIDEN RD.** **N/A**
1/8-1/4 **WATERBURY, CT 06712**
1097 ft.

Site 1 of 3 in cluster E

Relative:
Lower

Actual:
432 ft.

LUST:

LUST Case Id:	31751
Cost Recovery Spill Case #:	Not reported
Site Case Id:	Not reported
Old SITS Number:	Not reported
UST Site Id:	Not reported
LUST ID:	3725
Case Log Id:	Not reported
Monthly Report Id:	0
UST Facility Id:	3605
UST Owner Id:	8176
UST Event Id:	3802
Contact Info:	Not reported
Facility City Num:	151
Incident Date:	10/07/88
Entry Date:	Not reported
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact City,St,Zip:	0
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
2nd Contact:	Not reported
2nd Contact Address:	Not reported
2nd Contact City,St,Zip:	0
2nd Contact Address 2:	Not reported
2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported

MERIDEN MANOR SHELL (Continued) **S105458004**

2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Date Referred:	Not reported
Private Heating Fuel:	False
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other Release:	Not reported
No Release:	False
No LUST Site:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	False
Responsible Party:	False
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	0
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
LUST Owner Id:	Not reported
Investigator Id:	19
Follow Update:	Not reported
Lust Status:	Completed
Processing Status:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Effected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported

MERIDEN MANOR SHELL (Continued) **S105458004**

Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
Follow Up:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV COmments:	Not reported
Release Desc:	Not reported
Running Comments:	Spill Report ID: 88-2688 Spill Report 10/7/88: At least two gasoline USTs were removed with contaminated soil. One of the tanks spilled gasoline while it was being removed. Site status is open. UST Notification Form: A

MERIDEN MANOR SHELL (Continued) **S105458004**

registration receivedon 10/5/88 indicates 3-10k gasoline, 500 WO USTs that were last used in 9/88, were removed and not replaced. The site is no longer a Shell service station. OCSRD files received on 11/3/88: In October of 1988, tanks were removed. Soil was sampled and GW analytical results on file. 2000yds3 of contaminated soil was removed. Water Files received on 2/1/89: Tanks and soil were removed in October of 1988. GB area. Environmental Assessment Report on file.

Work Performed: Not reported

E17
East
1/8-1/4
1097 ft.

Relative:
Lower

Actual:
432 ft.

GULF FOOD MART **UST** **U002027738**
131 MERIDEN RD **N/A**
WATERBURY, CT 06710

Site 2 of 3 in cluster E

UST:

Owner:	Standard Petroleum Company
Owner Address:	299 Bishop Avenue
Owner City,St,Zip:	Bridgeport, CT 06607
Facility Id:	3605
Alt. Facility ID:	151-3605
Latitude Degrees:	41
Latitude Minutes:	32
Latitude Seconds:	48
Longitude Degrees:	0
Longitude Minutes:	Not reported
Longitude Seconds:	11
Tank ID:	5
Alt. Tank ID:	A1RA1
Tank Status:	**Currently In Use**
Capacity:	10000
Substance:	Gasoline
Date Last Used:	Not reported
Closure Status:	**Not reported**
Tank Material:	Cathodically Protected Steel
2ndary Material:	None
Pipe Material:	Fiberglass Reinforced Plastic
Pipe Mode Description:	None
Date Installed:	2/1/1990
Spill Installed:	No
Overfill Installed:	No

Owner:	Standard Petroleum Company
Owner Address:	299 Bishop Avenue
Owner City,St,Zip:	Bridgeport, CT 06607
Facility Id:	3605
Alt. Facility ID:	151-3605
Latitude Degrees:	41
Latitude Minutes:	32
Latitude Seconds:	48
Longitude Degrees:	0
Longitude Minutes:	Not reported
Longitude Seconds:	11
Tank ID:	4
Alt. Tank ID:	D4
Tank Status:	**Permanently Out of Use**
Capacity:	550
Substance:	Used Oil

GULF FOOD MART (Continued) **U002027738**

Date Last Used:	10/1/1988
Closure Status:	**Removed**
Tank Material:	Asphalt Coated or Bare Steel
2ndary Material:	None
Pipe Material:	Galvanized Steel
Pipe Mode Description:	None
Date Installed:	6/1/1973
Spill Installed:	No
Overfill Installed:	No

Owner:	Standard Petroleum Company
Owner Address:	299 Bishop Avenue
Owner City,St,Zip:	Bridgeport, CT 06607
Facility Id:	3605
Alt. Facility ID:	151-3605
Latitude Degrees:	41
Latitude Minutes:	32
Latitude Seconds:	48
Longitude Degrees:	0
Longitude Minutes:	Not reported
Longitude Seconds:	11
Tank ID:	3
Alt. Tank ID:	C3
Tank Status:	**Permanently Out of Use**
Capacity:	10000
Substance:	Gasoline
Date Last Used:	10/1/1988
Closure Status:	**Removed**
Tank Material:	Fiberglass Reinforced Plastic
2ndary Material:	None
Pipe Material:	Fiberglass Reinforced Plastic
Pipe Mode Description:	None
Date Installed:	12/1/1978
Spill Installed:	No
Overfill Installed:	Yes

Owner:	Standard Petroleum Company
Owner Address:	299 Bishop Avenue
Owner City,St,Zip:	Bridgeport, CT 06607
Facility Id:	3605
Alt. Facility ID:	151-3605
Latitude Degrees:	41
Latitude Minutes:	32
Latitude Seconds:	48
Longitude Degrees:	0
Longitude Minutes:	Not reported
Longitude Seconds:	11
Tank ID:	2
Alt. Tank ID:	B2
Tank Status:	**Permanently Out of Use**
Capacity:	10000
Substance:	Gasoline
Date Last Used:	10/1/1988
Closure Status:	**Removed**
Tank Material:	Fiberglass Reinforced Plastic
2ndary Material:	None
Pipe Material:	Fiberglass Reinforced Plastic

GULF FOOD MART (Continued) **U002027738**

Pipe Mode Description:	None
Date Installed:	12/1/1978
Spill Installed:	No
Overfill Installed:	Yes

Owner:	Standard Petroleum Company
Owner Address:	299 Bishop Avenue
Owner City,St,Zip:	Bridgeport, CT 06607
Facility Id:	3605
Alt. Facility ID:	151-3605
Latitude Degrees:	41
Latitude Minutes:	32
Latitude Seconds:	48
Longitude Degrees:	0
Longitude Minutes:	Not reported
Longitude Seconds:	11
Tank ID:	1
Alt. Tank ID:	A1
Tank Status:	**Permanently Out of Use**
Capacity:	10000
Substance:	Gasoline
Date Last Used:	10/1/1988
Closure Status:	**Removed**
Tank Material:	Fiberglass Reinforced Plastic
2ndary Material:	None
Pipe Material:	Fiberglass Reinforced Plastic
Pipe Mode Description:	None
Date Installed:	12/1/1978
Spill Installed:	No
Overfill Installed:	Yes

Owner:	Standard Petroleum Company
Owner Address:	299 Bishop Avenue
Owner City,St,Zip:	Bridgeport, CT 06607
Facility Id:	3605
Alt. Facility ID:	151-3605
Latitude Degrees:	41
Latitude Minutes:	32
Latitude Seconds:	48
Longitude Degrees:	0
Longitude Minutes:	Not reported
Longitude Seconds:	11
Tank ID:	6
Alt. Tank ID:	B2RB2
Tank Status:	**Currently In Use**
Capacity:	10000
Substance:	Gasoline
Date Last Used:	Not reported
Closure Status:	**Not reported**
Tank Material:	Cathodically Protected Steel
2ndary Material:	None
Pipe Material:	Fiberglass Reinforced Plastic
Pipe Mode Description:	None
Date Installed:	2/1/1990
Spill Installed:	No
Overfill Installed:	No

E18
East
1/8-1/4
1198 ft.

Relative:
Lower

Actual:
435 ft.

ERNIES AUTO BODY WORKS INC
141 MERIDEN RD
WATERBURY, CT 06705

RCRA-SQG **1000249438**
FINDS **CTD018850974**

Site 3 of 3 in cluster E

RCRAInfo:

Owner: JOHN O'BAR
(203) 555-1212
EPA ID: CTD018850974

Contact: JOHN OBAR
(203) 756-7884

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

19
West
1/4-1/2
1413 ft.

Relative:
Lower

Actual:
357 ft.

DESIGNER AUTO
1120 EAST MAIN ST
WATERBURY, CT

ENF **S104255327**
SDADB **N/A**

CT ENFORCEMENT:

Enforcement Action ID:	NOVWSWDH02031
Enforcement Type Code:	NOV
Program Id:	HWENF
Enforcement Action Date:	3/12/2002 12:00AM
Penalty Amount:	Not reported
Sep Amt:	Not reported
Bureau Name:	BUREAU OF WASTE MANAGEMENT

Facility ID:	1311
Rem ID:	Not reported
PTP Id:	Not reported
WPC Number:	Not reported
Postal District:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Lat/Long Determined By:	Not reported
Ground Water Quality Classification:	Not reported
Surface Water Quality Classification:	Not reported
Waste Type:	HYDRO/OIL, METALS
Disposal:	SPILL/DUMP
Sample Data Available:	No
Updated By:	MCDANIEL, M.
Update Program:	D&A
Updated:	6/22/1992
Duplicate:	No
EPA CERCLIS Id:	Not reported
Number EPA RCRIS Id:	Not reported
Site on EPA's CERCLIS:	Not reported
Site Archived from CERCLIS:	Not reported

DESIGNER AUTO (Continued) **S104255327**

Archive Date:	Not reported
EPA's Removal at Site:	Not reported
Deferred to another EPA Program:	Not reported
EPA Env Priority Initiative Site:	Not reported
Federal Facility:	Not reported
Site on EPA's National Priority List:	Not reported
Part of an NPL site:	Not reported
RCRA Generator Status:	Not reported
RCRA Permit Status:	Not reported
Referral Id:	1240
Source of referral:	RCRA
Date Received:	4/29/1992
Staff Assigned:	Not reported
Remediation Program:	Not reported
Date assigned:	Not reported
Remediation Complete Approved DEP/Verified by LEP:	Not reported
Outcome:	Not reported
Remedial Id:	Not reported
PTP Id:	Not reported
Remediation Program:	Not reported
Remediation Program Entered:	Not reported
Staff Assigned:	Not reported
Remediation Program:	Not reported
Date assigned:	Not reported
Project Phase:	Not reported
Order issued:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Remedial Investigation Start:	Not reported
Remedial Investigation Completed:	Not reported
Remedial Design Start:	Not reported
Remedial Design complet:	Not reported
Remedial Action Start:	Not reported
Remedial Action Completed:	Not reported
Date Oper/ maintenance Started:	Not reported
GW monitoring:	Not reported
Remediation complete Approved DEP/Verified by LEP:	Not reported
Order Id:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Staff Assigned:	Not reported
Type of Order:	Not reported
Order Respondent:	Not reported
Admin Appeal Date:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Final Order:	Not reported
Date of Court Appeal:	Not reported
Date of Court Ruling:	Not reported
Date of Court Ruling:	Not reported
Date Order Modified:	Not reported
Date Order Revoked:	Not reported
Date Referred to AG:	Not reported
Judgement:	Not reported
Date of AGR judgement:	Not reported
Penalty assessed:	Not reported
Order Complete:	Not reported

DESIGNER AUTO (Continued) **S104255327**

In compliance: Not reported
Orders Comment: Not reported
Comments: Not reported

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20 ENE 1/4-1/2 2001 ft. **SCOVILL INDUSTRIAL LANDFILL STORE AVENUE WATERBURY, CT 06705** **CERCLIS FINDS NPL SDADB** **1001216938 CT0002265551**

Relative: Lower

Actual: 433 ft.

CERCLIS:
Site ID: 0102953
Federal Facility: Not a Federal Facility
NPL Status: Currently on the Final NPL
Non NPL Status: Not reported

CERCLIS Site Contact Name(s):
Contact Name: Almerinda Silva
Contact Tel: (617) 918-1246
Contact Title: Remedial Project Manager (RPM)

Contact Name: Gerardo Millan-Ramos
Contact Tel: (617) 918-1377
Contact Title: Site Assessment Manager (SAM)

Contact Name: STACY GREENDLINGER
Contact Tel: (617) 918-1403
Contact Title: Community Involvement Coordinator

CERCLIS Site Alias Name(s):
Alias Name: SCOVIL DUMP
Alias Address: ACADEMY AVENUE
WATERBURY, CT 06705
Alias Name: SCOVILL INDUSTRIAL LANDFILL
Alias Address: STORE AVENUE
WATERBURY, CT 06705
Alias Name: SCOVIL INDUSTRIAL LANDFILL
Alias Address: Not reported
Not reported
Site Description: Not reported

CERCLIS Assessment History:
Action: DISCOVERY
Date Started: Not reported
Date Completed: 01/09/1998
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: 01/09/1998
Date Completed: 12/16/1999
Priority Level: High

Action: SITE INSPECTION
Date Started: 01/29/1999
Date Completed: 12/16/1999
Priority Level: High

Action: PROPOSAL TO NATIONAL PRIORITIES LIST

SCOVILL INDUSTRIAL LANDFILL (Continued) **1001216938**

Date Started: Not reported
Date Completed: 05/11/2000
Priority Level: Not reported

Action: HAZARD RANKING SYSTEM PACKAGE
Date Started: 05/01/1999
Date Completed: 07/27/2000
Priority Level: Being considered for proposal to the NPL

Action: FINAL LISTING ON NATIONAL PRIORITIES LIST
Date Started: Not reported
Date Completed: 07/27/2000
Priority Level: Not reported

Action: ISSUE REQUEST LETTERS (104E)
Date Started: Not reported
Date Completed: 09/27/2000
Priority Level: Not reported

Action: ISSUE REQUEST LETTERS (104E)
Date Started: Not reported
Date Completed: 09/27/2000
Priority Level: Not reported

Action: ISSUE REQUEST LETTERS (104E)
Date Started: Not reported
Date Completed: 12/15/2000
Priority Level: Not reported

Action: AERIAL SURVEY
Date Started: 09/28/2000
Date Completed: 01/01/2001
Priority Level: Not reported

Action: ISSUE REQUEST LETTERS (104E)
Date Started: Not reported
Date Completed: 01/03/2001
Priority Level: Not reported

Action: Notice Letters Issued
Date Started: Not reported
Date Completed: 02/02/2001
Priority Level: Not reported

Action: Special Notice Issued
Date Started: Not reported
Date Completed: 05/21/2001
Priority Level: Not reported

Action: ISSUE REQUEST LETTERS (104E)
Date Started: Not reported
Date Completed: 03/07/2002
Priority Level: Not reported

Action: NON-NATIONAL PRIORITIES LIST POTENTIALLY RESPONSIBLE PARTY SEARCH
Date Started: 10/29/1999
Date Completed: 03/11/2003

SCOVILL INDUSTRIAL LANDFILL (Continued) **1001216938**

Priority Level: Not reported

Action: REMEDIAL INVESTIGATION/FEASIBILITY STUDY NEGOTIATIONS
Date Started: 05/21/2001
Date Completed: 03/11/2003
Priority Level: Not reported

Action: UNILATERAL ADMIN ORDER
Date Started: Not reported
Date Completed: 03/11/2003
Priority Level: Not reported

Action: NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH
Date Started: 10/29/1999
Date Completed: 03/11/2003
Priority Level: Not reported

Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started: 06/18/2003
Date Completed: Not reported
Priority Level: Not reported

Action: COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started: 02/25/2002
Date Completed: 06/18/2003
Priority Level: Not reported

Action: ISSUE REQUEST LETTERS (104E)
Date Started: Not reported
Date Completed: 08/26/2004
Priority Level: Not reported

Action: FORWARD PLANNING ACTIVITY/MANAGEMENT ASSISTANCE
Date Started: 07/21/2004
Date Completed: 07/29/2005
Priority Level: Not reported

FINDS:

Other Pertinent Environmental Activity Identified at Site:

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

SCOVILL INDUSTRIAL LANDFILL (Continued) **1001216938**

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

NPL:

EPA ID:	CT0002265551
Region:	01
Federal:	General
Final Date:	07/27/2000

EPA ID:	CT0002265551
Region:	01
Federal:	General
Final Date:	07/27/2000

Site Details:

Site Name:	SCOVILL INDUSTRIAL LANDFILL
Site Status:	Final
Status Date:	07/27/2000
Site City:	WATERBURY
Site State	CT
Federal Site:	Not a Federal Facility
HRS Score:	50.00
GW Score:	0.00
SW Score:	0.00
Air Score:	Not reported
Soil Score:	100.00
DC Score:	Not reported
FE Score:	Not reported

Site Name:	SCOVILL INDUSTRIAL LANDFILL
Site Status:	Final
Status Date:	07/27/2000
Site City:	WATERBURY
Site State	CT
Federal Site:	Not a Federal Facility
HRS Score:	0.00
GW Score:	0.00
SW Score:	0.00
Air Score:	Not reported
Soil Score:	Not reported
DC Score:	Not reported
FE Score:	Not reported

Substance Details:

Site ID:	Not reported
NPL Status:	Currently on the Final NPL
Substance ID:	A038
CAS #:	Not reported
Substance:	NICKEL AND COMPOUNDS
Pathway:	SOIL EXPOSURE PATHWAY
Scoring:	4

Site ID:	Not reported
NPL Status:	Currently on the Final NPL
Substance ID:	A046
CAS #:	1336-36-3
Substance:	POLYCHLORINATED BIPHENYLS
Pathway:	SOIL EXPOSURE PATHWAY
Scoring:	4

SCOVILL INDUSTRIAL LANDFILL (Continued) **1001216938**

Site ID: Not reported
NPL Status: Currently on the Final NPL
Substance ID: A049
CAS #: Not reported
Substance: SILVER AND COMPOUNDS
Pathway: SOIL EXPOSURE PATHWAY
Scoring: 2

Site ID: Not reported
NPL Status: Currently on the Final NPL
Substance ID: C013
CAS #: 120-12-7
Substance: ANTHRACENE
Pathway: SOIL EXPOSURE PATHWAY
Scoring: 2

Site ID: Not reported
NPL Status: Currently on the Final NPL
Substance ID: C247
CAS #: Not reported
Substance: ZINC AND COMPOUNDS
Pathway: SOIL EXPOSURE PATHWAY
Scoring: 2

Site ID: Not reported
NPL Status: Currently on the Final NPL
Substance ID: C334
CAS #: 83-32-9
Substance: ACENAPHTHENE
Pathway: NO PATHWAY INDICATED
Scoring: 1

Site ID: Not reported
NPL Status: Currently on the Final NPL
Substance ID: C385
CAS #: 129-00-0
Substance: PYRENE
Pathway: NO PATHWAY INDICATED
Scoring: 1

Site ID: Not reported
NPL Status: Currently on the Final NPL
Substance ID: C431
CAS #: 86-73-7
Substance: FLUORENE
Pathway: SOIL EXPOSURE PATHWAY
Scoring: 2

Site ID: Not reported
NPL Status: Currently on the Final NPL
Substance ID: C628
CAS #: 86-74-8
Substance: CARBAZOLE
Pathway: SOIL EXPOSURE PATHWAY
Scoring: 2

Site ID: Not reported
NPL Status: Currently on the Final NPL
Substance ID: D006
CAS #: 7440-43-9
Substance: CADMIUM (CD)

SCOVILL INDUSTRIAL LANDFILL (Continued) **1001216938**

Pathway: SOIL EXPOSURE PATHWAY
Scoring: 4

Site ID: Not reported
NPL Status: Currently on the Final NPL
Substance ID: U022
CAS #: 50-32-8
Substance: BENZO(A)PYRENE
Pathway: SOIL EXPOSURE PATHWAY
Scoring: 4

Site ID: Not reported
NPL Status: Currently on the Final NPL
Substance ID: U028
CAS #: 117-81-7
Substance: BIS(2-ETHYLHEXYL)PHTHALATE
Pathway: NO PATHWAY INDICATED
Scoring: 1

Site ID: Not reported
NPL Status: Currently on the Final NPL
Substance ID: U050
CAS #: 218-01-9
Substance: CHRYSENE
Pathway: SOIL EXPOSURE PATHWAY
Scoring: 2

Site ID: Not reported
NPL Status: Currently on the Final NPL
Substance ID: U063
CAS #: 53-70-3
Substance: DIBENZ(A,H)ANTHRACENE
Pathway: SOIL EXPOSURE PATHWAY
Scoring: 4

Site ID: Not reported
NPL Status: Currently on the Final NPL
Substance ID: U120
CAS #: 206-44-0
Substance: BENZO(J,K)FLUORENE
Pathway: SOIL EXPOSURE PATHWAY
Scoring: 2

Site ID: Not reported
NPL Status: Currently on the Final NPL
Substance ID: Not reported
CAS #: Not reported
Substance: Not reported
Pathway: Not reported
Scoring: Not reported

Summary Details:

"Conditions at Proposal (May 11, 2000): The Scovill Industrial Landfill is located north of Meriden Road in Waterbury, New Haven County, Connecticut. According to the Connecticut Department of Environmental Protection, the Scovill Manufacturing Co
mpany used this area as a landfill from 1919 to the mid-1970s for disposal of ash, cinders, demolition debris, and other wastes generated by the facility. Before 1919, this area was part of a 30-acre parcel owned by Daniel J. McCarthy and consisted
of undeveloped woodlands and wetland areas, with Carrington Brook flowing

SCOVILL INDUSTRIAL LANDFILL (Continued) **1001216938**

through the site from north to south. The parcel of land was sold to the Scovill Manufacturing Company on June 25, 1919. The landfilling operations began along Meriden Road and slowly moved northward. Around 1941, when landfilling was complete along the southeast portion of the site, the company began subdividing and selling parcels of the site for development. As the wetlands and stream valley were filled, addi tional parcels were subdivided and sold to developers. Most of this development occurred over a 20-year period beginning in the mid-1950s and ending in the mid-1970s. By the mid-1990s, 12 acres of the 19-acre area had been developed into residenti al and commercial properties. The buildings currently on the site are two- and three-story residential structures and small commercial buildings, including a landscaping firm, adult daycare facility, social club, department store, cab service, medi cal office, car repair shop, and a shopping plaza. The northern portion of the site is an undeveloped 6.8-acre parcel, referred to as the Calabrese parcel. This parcel was in the initial stages of development for a proposed elderly housing co mplex when industrial wastes were encountered during the excavation of soil for the concrete footings. The construction project was ordered to stop until the extent and degree of contamination was identified. EPA conducted sampling on April 26, 19 99 through April 28, 1999 and collected soil samples from the site and surrounding area. Soil samples showed elevated levels of organic chemicals such as acenaphthene, flourene, anthracene, and chrysene; metals such as cadmium, nickel, silver, and zinc; and PCBs. The Calabrese parcel has since been fenced and posted, along with a temporary cap placed over the disturbed areas. Status (July 2000): EPA is considering various alternatives for this site. [The description of the site (release) is based on information available at the time the site was evaluated with the HRS. The description may change as additional information is gathered on the sources and extent of contamination. See 56 FR 5600, February 11, 1991, or subsequ ent FR notices.] For more information about the hazardous substances identified in this narrative summary, including general information regarding the effects of exposure to these substances on human health, please see the Agency for Toxic Sub stances and Disease Registry (ATSDR) ToxFAQs. ATSDR ToxFAQs can be found on the Internet at http://www.atsdr.cdc.gov/toxfaq.html or by telephone at 1-888-42-ATSDR or 1-888-422-8737."

Site Status Details:

NPL Status:	Final
Proposed Date:	05/11/2000
Final Date:	07/27/2000
Deleted Date:	Not reported
Facility ID:	2156
Rem ID:	Not reported
PTP Id:	Not reported
WPC Number:	Not reported
Postal District:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Lat/Long Determined By:	Not reported
Ground Water Quality Classification:	Not reported
Surface Water Quality Classification:	Not reported

SCOVILL INDUSTRIAL LANDFILL (Continued) **1001216938**

Waste Type:	PCB'S
Disposal:	BURIAL, LANDFILL
Sample Data Available:	No
Updated By:	MCDANIEL, M.
Update Program:	D&A
Updated:	10/23/1998
Duplicate:	No
EPA CERCLIS Id:	CT0002265551
Number EPA RCRIS Id:	Not reported
Site on EPA's CERCLIS:	Yes
Site Archived from CERCLIS:	No
Archive Date:	Not reported
EPA's Removal at Site:	No
Deferred to another EPA Program:	No
EPA Env Priority Initiative Site:	No
Federal Facility:	No
Site on EPA's National Priority List:	Yes
Part of an NPL site:	No
RCRA Generator Status:	Not reported
RCRA Permit Status:	Not reported
Referral Id:	1985
Source of referral:	RCRA
Date Received:	2/1/1995
Staff Assigned:	MCDANIEL, M.
Remediation Program:	D&A
Date assigned:	12/14/1997
Remediation Complete Approved DEP/Verified by LEP:	1/12/1998
Outcome:	CERCLIS
Remedial Id:	663
PTP Id:	0
Remediation Program:	NPL
Remediation Program Entered:	8/1/2000
Staff Assigned:	MCDANIEL, M.
Remediation Program:	FRP
Date assigned:	Not reported
Project Phase:	Not reported
Order issued:	No
Order Number:	Not reported
Date order issued:	Not reported
Remedial Investigation Start:	Not reported
Remedial Investigation Completed:	Not reported
Remedial Design Start:	Not reported
Remedial Design complet:	Not reported
Remedial Action Start:	Not reported
Remedial Action Completed:	Not reported
Date Oper/ maintenance Started:	Not reported
GW monitoring:	No
Remediation complete Approved DEP/Verified by LEP:	Not reported
Order Id:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Staff Assigned:	Not reported
Type of Order:	Not reported
Order Respondent:	Not reported
Admin Appeal Date:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Admin Appeal Ruling:	Not reported

SCOVILL INDUSTRIAL LANDFILL (Continued) **1001216938**

Date of Final Order:	Not reported
Date of Court Appeal:	Not reported
Date of Court Ruling:	Not reported
Date of Court Ruling:	Not reported
Date Order Modified:	Not reported
Date Order Revoked:	Not reported
Date Referred to AG:	Not reported
Judgement:	Not reported
Date of AGR judgement:	Not reported
Penalty assessed:	Not reported
Order Complete:	Not reported
In compliance:	Not reported
Orders Comment:	Not reported

Comments: ORDERS: HM-637 ISSUED TO CALABRESE CONSTRUCTION 10/12/89 HM-652 ISSUED TO SCOVILL INC 1/5/90 REFER FROM WASTE 2/1/95 (2/95) EMERGENCY REMOVAL ACTION OF WASTE COMPLETED ON CALABRESE PROPERTY 10/98. PHASE I DRAFT COMPLETED 10/23/98. FINAL 12/02/98.

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21 WSW 1/4-1/2 2114 ft. **CENTURY BRASS INDUSTRIAL WASTEWTR , CT** **LWDS** **W991102423 N/A**

Relative: Lower

Actual: 349 ft.

LWDS:

ArcView Legend Symbology:	INDUST WTR
Leachate and Wastewater Number:	6914014
Status of the Discharge Activity:	INACTIVE
Leachate and Waste Flow:	SURFACE
Feature Number on Hazardous Waste List:	1403
Subregional Basin Feature Number:	6914
Name:	Century Brass
Alias:	Not reported
Leachate and Wastewater Name:	INDUSTRIAL WASTEWTR
Description:	brass pickling discharge
Description 2:	Not reported
State Plane x:	924817
State Plane y:	760015
Longitude:	-73.02465
Latitude:	41.54662
Mercator y:	13287273.65939

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22 West 1/4-1/2 2127 ft. **CENTURY BRASS INDUSTRIAL PIT , CT** **LWDS** **W991102626 N/A**

Relative: Lower

Actual: 321 ft.

LWDS:

ArcView Legend Symbology:	INDUST PIT
Leachate and Wastewater Number:	6914013
Status of the Discharge Activity:	INACTIVE
Leachate and Waste Flow:	GROUND
Feature Number on Hazardous Waste List:	1403
Subregional Basin Feature Number:	6914
Name:	Century Brass
Alias:	Not reported
Leachate and Wastewater Name:	INDUSTRIAL PIT

CENTURY BRASS (Continued) **W991102626**

Description:	metal hydroxide sludge lagoons
Description 2:	Not reported
State Plane x:	924570
State Plane y:	760907
Longitude:	-73.02557
Latitude:	41.54907
Mercator y:	13288224.25407

---

23 WNW 1/4-1/2 2520 ft. | **ETHYL METAL COOLING WTR -SURFACE , CT** | **LWDS** | **W991102628 N/A**

Relative: Lower

Actual: 335 ft.

LWDS:

ArcView Legend Symbology:	COOL WTR-S
Leachate and Wastewater Number:	6914016
Status of the Discharge Activity:	ACTIVE
Leachate and Waste Flow:	SURFACE
Feature Number on Hazardous Waste List:	0
Subregional Basin Feature Number:	6914
Name:	Ethyl Metal
Alias:	Not reported
Leachate and Wastewater Name:	COOLING WTR -SURFACE
Description:	cooling water discharge
Description 2:	Not reported
State Plane x:	924439
State Plane y:	762106
Longitude:	-73.02606
Latitude:	41.55236
Mercator y:	13289503.15829

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24 West 1/4-1/2 2591 ft. | **CENTURY BRASS COOLING WTR -SURFACE , CT** | **LWDS** | **W991102627 N/A**

Relative: Lower

Actual: 340 ft.

LWDS:

ArcView Legend Symbology:	COOL WTR-S
Leachate and Wastewater Number:	6914015
Status of the Discharge Activity:	INACTIVE
Leachate and Waste Flow:	SURFACE
Feature Number on Hazardous Waste List:	1403
Subregional Basin Feature Number:	6914
Name:	Century Brass
Alias:	Not reported
Leachate and Wastewater Name:	COOLING WTR -SURFACE
Description:	20 cooling water discharges
Description 2:	Not reported
State Plane x:	924104
State Plane y:	760944
Longitude:	-73.02727
Latitude:	41.54916
Mercator y:	13288261.67199

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
25 ESE 1/2-1 2766 ft.	**MATTATUCK MFG. INDUSTRIAL PIT , CT**	**LWDS**	**W991101900 N/A**

Relative: Lower

Actual: 433 ft.

LWDS:

ArcView Legend Symbology:	INDUST PIT
Leachate and Wastewater Number:	6914011
Status of the Discharge Activity:	ACTIVE
Leachate and Waste Flow:	GROUND
Feature Number on Hazardous Waste List:	0
Subregional Basin Feature Number:	6914
Name:	Mattatuck Mfg.
Alias:	Not reported
Leachate and Wastewater Name:	INDUSTRIAL PIT
Description:	metal hydroxide lagoons & sludge drying beds
Description 2:	Not reported
State Plane x:	929235
State Plane y:	759892
Longitude:	-73.00851
Latitude:	41.54632
Mercator y:	13287156.11126

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26 SE 1/2-1 3030 ft.	**BOUTIN LORETTA 1981 EAST MAIN STREET WATERBURY, CT 06705**	**RCRA-SQG FINDS RCRA-TSDF CORRACTS CERC-NFRAP RI MANIFEST SDADB CT PROPERTY SHWS**	**1000396395 CTD001165760**

Relative: Lower

Actual: 403 ft.

RCRAInfo Corrective Action Summary:

Event:	Date For Remedy Selection (CM Imposed)
Event Date:	10/21/2004
Event:	Current Human Exposures under Control, Yes, Current Human Exposures Under Control has been verified. Based on a review of information contained in the EI determination, current human exposures are expected to be under control at the facility under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.
Event Date:	09/02/2004
Event:	Igration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified. Based on a review of information contained in the EI determination, it has been determined that migration of contaminated groundwater is under control at the facility. Specifically, this determination indicates that the migration of contaminated groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the existing area of contaminated groundwater. This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.
Event Date:	11/22/1999

BOUTIN LORETTA (Continued) **1000396395**

Event: Stabilization Measures Implemented, Primary measure is source removal and/or treatment (e.g., soil or waste excavation, in-situ soil treatment, off-site treatment).
Event Date: 10/07/1998

Event: RFI Imposition
Event Date: 12/12/1997

Event: Stabilization Measures Evaluation,This facility is amenable to stabilization activity based on the status of corrective action work at the facility, technical factors, the degree of risk, timing considerations and administrative considerations.
Event Date: 02/28/1997

Event: CA Prioritization, Facility or area was assigned a high corrective action priority.
Event Date: 09/03/1993

Event: RFA Determination Of Need For An RFI, RFI is Necessary;
Event Date: 06/17/1992

Event: CA Prioritization, Facility or area was assigned a medium corrective action priority.
Event Date: 06/17/1992

RCRAInfo:
Owner: SZYTKO JAN
(203) 756-4661
EPA ID: CTD001165760

Contact: R CAPANNA
(203) 756-4661

Classification: TSDF
TSDF Activities: Not reported

Violation Status: Violations exist

Regulation Violated: Not reported
Area of Violation: TSD-CONTAINERS REQUIREMENTS
Date Violation Determined: 01/26/1999
Actual Date Achieved Compliance: 02/12/1999

Regulation Violated: 262.34
Area of Violation: TSD-CONTAINERS REQUIREMENTS
Date Violation Determined: 02/05/1992
Actual Date Achieved Compliance: 01/04/1994

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 10/28/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL JUDICIAL ORDERS
Enforcement Action Date: 03/03/1994
Penalty Type: Final Monetary Penalty

Regulation Violated: 262.34 & 262.30-33
Area of Violation: TSD-CONTAINERS REQUIREMENTS
Date Violation Determined: 02/05/1992
Actual Date Achieved Compliance: 01/04/1994

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 10/28/1992
Penalty Type: Final Monetary Penalty

BOUTIN LORETTA (Continued) **1000396395**

Enforcement Action: FINAL JUDICIAL ORDERS
Enforcement Action Date: 03/03/1994
Penalty Type: Final Monetary Penalty

Regulation Violated: 265.17
Area of Violation: TSD INSPECTION SCHEDULE & LOG
Date Violation Determined: 02/05/1992
Actual Date Achieved Compliance: 01/04/1994

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 10/28/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL JUDICIAL ORDERS
Enforcement Action Date: 03/03/1994
Penalty Type: Final Monetary Penalty

Regulation Violated: 262.11
Area of Violation: HAZARDOUS WASTE DETERMINATIONS
Date Violation Determined: 02/05/1992
Actual Date Achieved Compliance: 01/04/1994

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 10/28/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL JUDICIAL ORDERS
Enforcement Action Date: 03/03/1994
Penalty Type: Final Monetary Penalty

Regulation Violated: 265.117
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 02/05/1992
Actual Date Achieved Compliance: 01/04/1994

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 10/28/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL JUDICIAL ORDERS
Enforcement Action Date: 03/03/1994
Penalty Type: Final Monetary Penalty

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 02/05/1992
Actual Date Achieved Compliance: 01/04/1994

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 10/28/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL JUDICIAL ORDERS
Enforcement Action Date: 03/03/1994
Penalty Type: Final Monetary Penalty

Regulation Violated: 262.34 365.50-56
Area of Violation: TSD-CONTINGENCY PLAN REQUREMENTS
Date Violation Determined: 02/05/1992
Actual Date Achieved Compliance: 01/04/1994

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 10/28/1992
Penalty Type: Final Monetary Penalty

BOUTIN LORETTA (Continued) **1000396395**

Enforcement Action: FINAL JUDICIAL ORDERS
Enforcement Action Date: 03/03/1994
Penalty Type: Final Monetary Penalty

Regulation Violated: 265.16
Area of Violation: PERSONNEL TRAINING RECORDS
Date Violation Determined: 02/05/1992
Actual Date Achieved Compliance: 01/04/1994

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 10/28/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL JUDICIAL ORDERS
Enforcement Action Date: 03/03/1994
Penalty Type: Final Monetary Penalty

Regulation Violated: 262.34(a)(4)(c)(1)(ii) 262.11
Area of Violation: GENERATOR-ALL REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 04/10/1991
Actual Date Achieved Compliance: 01/04/1994

Enforcement Action: EPA TO STATE ADMINISTRATIVE REFERRAL
Enforcement Action Date: 04/16/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 10/28/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL JUDICIAL ORDERS
Enforcement Action Date: 03/03/1994
Penalty Type: Final Monetary Penalty

Regulation Violated: 262.54(d) 262.34(a)(4) 262.41
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 04/10/1991
Actual Date Achieved Compliance: 01/04/1994

Enforcement Action: EPA TO STATE ADMINISTRATIVE REFERRAL
Enforcement Action Date: 04/16/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 10/28/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL JUDICIAL ORDERS
Enforcement Action Date: 03/03/1994
Penalty Type: Final Monetary Penalty

Regulation Violated: 268.7(A)(6)
Area of Violation: TSD-LAND BAN REQUIREMENTS
Date Violation Determined: 04/10/1991
Actual Date Achieved Compliance: Not reported

Enforcement Action: EPA TO STATE ADMINISTRATIVE REFERRAL
Enforcement Action Date: 04/16/1992
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 07/09/1985
Penalty Type: Not reported

Regulation Violated: 262.34(a)(4) 265

BOUTIN LORETTA (Continued) **1000396395**

Area of Violation: TSD-CONTINGENCY PLAN REQUREMENTS
Date Violation Determined: 04/10/1991
Actual Date Achieved Compliance: 01/04/1994

Enforcement Action: EPA TO STATE ADMINISTRATIVE REFERRAL
Enforcement Action Date: 04/16/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 10/28/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL JUDICIAL ORDERS
Enforcement Action Date: 03/03/1994
Penalty Type: Final Monetary Penalty

Regulation Violated: 268.7(a)(1)
Area of Violation: TSD-LAND BAN REQUIREMENTS
Date Violation Determined: 04/10/1991
Actual Date Achieved Compliance: 07/21/1995

Enforcement Action: EPA TO STATE ADMINISTRATIVE REFERRAL
Enforcement Action Date: 04/16/1992
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 03/31/1988
Actual Date Achieved Compliance: 10/17/1988

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 07/22/1988
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 07/08/1987
Actual Date Achieved Compliance: 07/20/1987

Enforcement Action: FINAL MONITORING,ANALYSIS,TEST ORDER
Enforcement Action Date: 09/08/1987
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 09/24/1986
Actual Date Achieved Compliance: 05/20/1987

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 09/24/1986
Actual Date Achieved Compliance: 05/20/1987

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 09/24/1986
Actual Date Achieved Compliance: 05/20/1987

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 09/15/1986
Actual Date Achieved Compliance: 06/15/1987

Enforcement Action: WRITTEN INFORMAL

BOUTIN LORETTA (Continued) **1000396395**

Enforcement Action Date: 09/17/1986
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 09/15/1986
Actual Date Achieved Compliance: 05/20/1987

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 07/24/1986
Actual Date Achieved Compliance: 05/20/1987

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/29/1986
Penalty Type: Final Monetary Penalty

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 09/30/1987
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL JUDICIAL ORDERS
Enforcement Action Date: 07/07/1988
Penalty Type: Final Monetary Penalty

Enforcement Action: EPA TO STATE ADMINISTRATIVE REFERRAL
Enforcement Action Date: 10/16/1986
Penalty Type: Final Monetary Penalty

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 03/26/1986
Actual Date Achieved Compliance: 04/20/1995

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/29/1986
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 12/03/1985
Actual Date Achieved Compliance: 12/12/1985

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/03/1985
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 12/03/1985
Actual Date Achieved Compliance: 05/20/1987

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 03/01/1987
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 12/03/1985
Actual Date Achieved Compliance: 05/20/1987

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 12/03/1985

BOUTIN LORETTA (Continued) **1000396395**

Actual Date Achieved Compliance: 05/20/1987

Regulation Violated: Not reported
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 12/03/1985
Actual Date Achieved Compliance: 05/20/1987

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 12/03/1985
Actual Date Achieved Compliance: 06/15/1987

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 06/15/1987
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 09/17/1985
Actual Date Achieved Compliance: 12/12/1985

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/03/1985
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 07/09/1985
Actual Date Achieved Compliance: 05/20/1987

Enforcement Action: EPA TO STATE ADMINISTRATIVE REFERRAL
Enforcement Action Date: 04/16/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 10/28/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL JUDICIAL ORDERS
Enforcement Action Date: 03/03/1994
Penalty Type: Final Monetary Penalty

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 07/09/1985
Actual Date Achieved Compliance: 05/20/1987

Enforcement Action: EPA TO STATE ADMINISTRATIVE REFERRAL
Enforcement Action Date: 04/16/1992
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: FORMAL ENFORCEMENT AGREEMENT
Date Violation Determined: 07/09/1985
Actual Date Achieved Compliance: 11/12/1985

Enforcement Action: EPA TO STATE ADMINISTRATIVE REFERRAL
Enforcement Action Date: 04/16/1992
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 07/09/1985
Penalty Type: Not reported

Regulation Violated: Not reported

BOUTIN LORETTA (Continued) **1000396395**

Area of Violation: FORMAL ENFORCEMENT AGREEMENT
Date Violation Determined: 07/09/1985
Actual Date Achieved Compliance: 05/20/1987

Enforcement Action: EPA TO STATE ADMINISTRATIVE REFERRAL
Enforcement Action Date: 04/16/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 10/28/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL JUDICIAL ORDERS
Enforcement Action Date: 03/03/1994
Penalty Type: Final Monetary Penalty

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 07/09/1985
Actual Date Achieved Compliance: 05/20/1987

Enforcement Action: EPA TO STATE ADMINISTRATIVE REFERRAL
Enforcement Action Date: 04/16/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 10/28/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL JUDICIAL ORDERS
Enforcement Action Date: 03/03/1994
Penalty Type: Final Monetary Penalty

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 07/27/1983
Actual Date Achieved Compliance: 11/07/1984

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 11/07/1983
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 07/27/1983
Actual Date Achieved Compliance: 12/15/1984

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 11/07/1983
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 07/27/1983
Actual Date Achieved Compliance: 08/14/1985

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 09/26/1984
Penalty Type: Final Monetary Penalty

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 07/27/1983
Actual Date Achieved Compliance: 05/20/1987

BOUTIN LORETTA (Continued) **1000396395**

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 11/07/1983
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 07/27/1983
Actual Date Achieved Compliance: 05/20/1987

Penalty Summary:

Penalty Description	Penalty Date	Penalty Amount	Lead Agency
Final Monetary Penalty	3/3/1994	123800	STATE

There are 40 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance
Non-Financial Record Review	TSD-CONTAINERS REQUIREMENTS	19990212
Compliance Evaluation Inspection	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)	19940104
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19940104
	TSD-CONTINGENCY PLAN REQUREMENTS	19940104
	TSD-CONTAINERS REQUIREMENTS	19940104
	TSD-CONTAINERS REQUIREMENTS	19940104
	HAZARDOUS WASTE DETERMINATIONS	19940104
	TSD INSPECTION SCHEDULE & LOG	19940104
	PERSONNEL TRAINING RECORDS	19940104
	TSD-CONTINGENCY PLAN REQUREMENTS	19940104
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19940104
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19940104
Compliance Evaluation Inspection	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)	19940104
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19940104
	TSD-LAND BAN REQUIREMENTS	19950721
	TSD-LAND BAN REQUIREMENTS	
	TSD-CONTINGENCY PLAN REQUREMENTS	19940104
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19881017
Non-Financial Record Review	TSD-GOUNDWATER MONITORING REQUIREMENTS	19870720
Compliance Evaluation Inspection	TSD-GOUNDWATER MONITORING REQUIREMENTS	19870520
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19870520
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19870520
Financial Record Review	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19870615
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19870520
Compliance Evaluation Inspection	TSD-GOUNDWATER MONITORING REQUIREMENTS	19870520
Compliance GW Monitoring Evaluation	TSD-GOUNDWATER MONITORING REQUIREMENTS	19950420
Compliance Evaluation Inspection	TSD-GOUNDWATER MONITORING REQUIREMENTS	19851212
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19870520
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19870615
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19870520
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19870520
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19870520
Compliance GW Monitoring Evaluation	TSD-GOUNDWATER MONITORING REQUIREMENTS	19851212
Compliance Evaluation Inspection	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19870520
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19870520
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19870520
Compliance Schedule Evaluation	FORMAL ENFORCEMENT AGREEMENT	19851112
	FORMAL ENFORCEMENT AGREEMENT	19870520
Compliance Evaluation Inspection	TSD-GOUNDWATER MONITORING REQUIREMENTS	19841107
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19841215
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19850814

BOUTIN LORETTA (Continued) **1000396395**

TSD-OTHER REQUIREMENTS (OVERSIGHT) 19870520
TSD-OTHER REQUIREMENTS (OVERSIGHT) 19870520

FINDS:

Other Pertinent Environmental Activity Identified at Site:

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

RCRAInfo Corrective Action Summary:

Event: Date For Remedy Selection (CM Imposed)
Event Date: 10/21/2004

Event: Current Human Exposures under Control, Yes, Current Human Exposures Under Control has been verified. Based on a review of information contained in the EI determination, current human exposures are expected to be under control at the facility under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.
Event Date: 09/02/2004

Event: Igration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified. Based on a review of information contained in the EI determination, it has been determined that migration of contaminated groundwater is under control at the facility. Specifically, this determination indicates that the migration of contaminated groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the existing area of contaminated groundwater. This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.
Event Date: 11/22/1999

Event: Stabilization Measures Implemented, Primary measure is source removal and/or treatment (e.g., soil or waste excavation, in-situ soil treatment, off-site treatment).
Event Date: 10/07/1998

Event: RFI Imposition
Event Date: 12/12/1997

BOUTIN LORETTA (Continued) **1000396395**

Event: Stabilization Measures Evaluation,This facility is amenable to stabilization activity based on the status of corrective action work at the facility, technical factors, the degree of risk, timing considerations and administrative considerations.
Event Date: 02/28/1997

Event: CA Prioritization, Facility or area was assigned a high corrective action priority.
Event Date: 09/03/1993

Event: RFA Determination Of Need For An RFI, RFI is Necessary;
Event Date: 06/17/1992

Event: CA Prioritization, Facility or area was assigned a medium corrective action priority.
Event Date: 06/17/1992

RCRAInfo:
Owner: SZYTKO JAN
(203) 756-4661
EPA ID: CTD001165760

Contact: R CAPANNA
(203) 756-4661

Classification: TSDF
TSDF Activities: Not reported

Violation Status: Violations exist

Regulation Violated: Not reported
Area of Violation: TSD-CONTAINERS REQUIREMENTS
Date Violation Determined: 01/26/1999
Actual Date Achieved Compliance: 02/12/1999

Regulation Violated: 262.34
Area of Violation: TSD-CONTAINERS REQUIREMENTS
Date Violation Determined: 02/05/1992
Actual Date Achieved Compliance: 01/04/1994

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 10/28/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL JUDICIAL ORDERS
Enforcement Action Date: 03/03/1994
Penalty Type: Final Monetary Penalty

Regulation Violated: 262.34 & 262.30-33
Area of Violation: TSD-CONTAINERS REQUIREMENTS
Date Violation Determined: 02/05/1992
Actual Date Achieved Compliance: 01/04/1994

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 10/28/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL JUDICIAL ORDERS
Enforcement Action Date: 03/03/1994
Penalty Type: Final Monetary Penalty

Regulation Violated: 265.17
Area of Violation: TSD INSPECTION SCHEDULE & LOG
Date Violation Determined: 02/05/1992

BOUTIN LORETTA (Continued) **1000396395**

Actual Date Achieved Compliance: 01/04/1994

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 10/28/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL JUDICIAL ORDERS
Enforcement Action Date: 03/03/1994
Penalty Type: Final Monetary Penalty

Regulation Violated: 262.11
Area of Violation: HAZARDOUS WASTE DETERMINATIONS
Date Violation Determined: 02/05/1992
Actual Date Achieved Compliance: 01/04/1994

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 10/28/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL JUDICIAL ORDERS
Enforcement Action Date: 03/03/1994
Penalty Type: Final Monetary Penalty

Regulation Violated: 265.117
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 02/05/1992
Actual Date Achieved Compliance: 01/04/1994

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 10/28/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL JUDICIAL ORDERS
Enforcement Action Date: 03/03/1994
Penalty Type: Final Monetary Penalty

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 02/05/1992
Actual Date Achieved Compliance: 01/04/1994

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 10/28/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL JUDICIAL ORDERS
Enforcement Action Date: 03/03/1994
Penalty Type: Final Monetary Penalty

Regulation Violated: 262.34 365.50-56
Area of Violation: TSD-CONTINGENCY PLAN REQUREMENTS
Date Violation Determined: 02/05/1992
Actual Date Achieved Compliance: 01/04/1994

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 10/28/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL JUDICIAL ORDERS
Enforcement Action Date: 03/03/1994
Penalty Type: Final Monetary Penalty

Regulation Violated: 265.16
Area of Violation: PERSONNEL TRAINING RECORDS
Date Violation Determined: 02/05/1992

BOUTIN LORETTA (Continued) **1000396395**

Actual Date Achieved Compliance: 01/04/1994

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 10/28/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL JUDICIAL ORDERS
Enforcement Action Date: 03/03/1994
Penalty Type: Final Monetary Penalty

Regulation Violated: 262.34(a)(4)(c)(1)(ii) 262.11
Area of Violation: GENERATOR-ALL REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 04/10/1991
Actual Date Achieved Compliance: 01/04/1994

Enforcement Action: EPA TO STATE ADMINISTRATIVE REFERRAL
Enforcement Action Date: 04/16/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 10/28/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL JUDICIAL ORDERS
Enforcement Action Date: 03/03/1994
Penalty Type: Final Monetary Penalty

Regulation Violated: 262.54(d) 262.34(a)(4) 262.41
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 04/10/1991
Actual Date Achieved Compliance: 01/04/1994

Enforcement Action: EPA TO STATE ADMINISTRATIVE REFERRAL
Enforcement Action Date: 04/16/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 10/28/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL JUDICIAL ORDERS
Enforcement Action Date: 03/03/1994
Penalty Type: Final Monetary Penalty

Regulation Violated: 268.7(A)(6)
Area of Violation: TSD-LAND BAN REQUIREMENTS
Date Violation Determined: 04/10/1991
Actual Date Achieved Compliance: Not reported

Enforcement Action: EPA TO STATE ADMINISTRATIVE REFERRAL
Enforcement Action Date: 04/16/1992
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 07/09/1985
Penalty Type: Not reported

Regulation Violated: 262.34(a)(4) 265
Area of Violation: TSD-CONTINGENCY PLAN REQUREMENTS
Date Violation Determined: 04/10/1991
Actual Date Achieved Compliance: 01/04/1994

Enforcement Action: EPA TO STATE ADMINISTRATIVE REFERRAL
Enforcement Action Date: 04/16/1992
Penalty Type: Final Monetary Penalty

BOUTIN LORETTA (Continued) **1000396395**

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 10/28/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL JUDICIAL ORDERS
Enforcement Action Date: 03/03/1994
Penalty Type: Final Monetary Penalty

Regulation Violated: 268.7(a)(1)
Area of Violation: TSD-LAND BAN REQUIREMENTS
Date Violation Determined: 04/10/1991
Actual Date Achieved Compliance: 07/21/1995

Enforcement Action: EPA TO STATE ADMINISTRATIVE REFERRAL
Enforcement Action Date: 04/16/1992
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 03/31/1988
Actual Date Achieved Compliance: 10/17/1988

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 07/22/1988
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 07/08/1987
Actual Date Achieved Compliance: 07/20/1987

Enforcement Action: FINAL MONITORING,ANALYSIS,TEST ORDER
Enforcement Action Date: 09/08/1987
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 09/24/1986
Actual Date Achieved Compliance: 05/20/1987

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 09/24/1986
Actual Date Achieved Compliance: 05/20/1987

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 09/24/1986
Actual Date Achieved Compliance: 05/20/1987

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 09/15/1986
Actual Date Achieved Compliance: 06/15/1987

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 09/17/1986
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 09/15/1986
Actual Date Achieved Compliance: 05/20/1987

BOUTIN LORETTA (Continued) **1000396395**

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 07/24/1986
Actual Date Achieved Compliance: 05/20/1987

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/29/1986
Penalty Type: Final Monetary Penalty

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 09/30/1987
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL JUDICIAL ORDERS
Enforcement Action Date: 07/07/1988
Penalty Type: Final Monetary Penalty

Enforcement Action: EPA TO STATE ADMINISTRATIVE REFERRAL
Enforcement Action Date: 10/16/1986
Penalty Type: Final Monetary Penalty

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 03/26/1986
Actual Date Achieved Compliance: 04/20/1995

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/29/1986
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 12/03/1985
Actual Date Achieved Compliance: 12/12/1985

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/03/1985
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 12/03/1985
Actual Date Achieved Compliance: 05/20/1987

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 03/01/1987
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 12/03/1985
Actual Date Achieved Compliance: 05/20/1987

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 12/03/1985
Actual Date Achieved Compliance: 05/20/1987

Regulation Violated: Not reported
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 12/03/1985
Actual Date Achieved Compliance: 05/20/1987

Regulation Violated: Not reported

BOUTIN LORETTA (Continued) **1000396395**

Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 12/03/1985
Actual Date Achieved Compliance: 06/15/1987

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 06/15/1987
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 09/17/1985
Actual Date Achieved Compliance: 12/12/1985

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 12/03/1985
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 07/09/1985
Actual Date Achieved Compliance: 05/20/1987

Enforcement Action: EPA TO STATE ADMINISTRATIVE REFERRAL
Enforcement Action Date: 04/16/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 10/28/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL JUDICIAL ORDERS
Enforcement Action Date: 03/03/1994
Penalty Type: Final Monetary Penalty

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 07/09/1985
Actual Date Achieved Compliance: 05/20/1987

Enforcement Action: EPA TO STATE ADMINISTRATIVE REFERRAL
Enforcement Action Date: 04/16/1992
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: FORMAL ENFORCEMENT AGREEMENT
Date Violation Determined: 07/09/1985
Actual Date Achieved Compliance: 11/12/1985

Enforcement Action: EPA TO STATE ADMINISTRATIVE REFERRAL
Enforcement Action Date: 04/16/1992
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 07/09/1985
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: FORMAL ENFORCEMENT AGREEMENT
Date Violation Determined: 07/09/1985
Actual Date Achieved Compliance: 05/20/1987

Enforcement Action: EPA TO STATE ADMINISTRATIVE REFERRAL
Enforcement Action Date: 04/16/1992
Penalty Type: Final Monetary Penalty

BOUTIN LORETTA (Continued) **1000396395**

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 10/28/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL JUDICIAL ORDERS
Enforcement Action Date: 03/03/1994
Penalty Type: Final Monetary Penalty

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 07/09/1985
Actual Date Achieved Compliance: 05/20/1987

Enforcement Action: EPA TO STATE ADMINISTRATIVE REFERRAL
Enforcement Action Date: 04/16/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 10/28/1992
Penalty Type: Final Monetary Penalty

Enforcement Action: FINAL JUDICIAL ORDERS
Enforcement Action Date: 03/03/1994
Penalty Type: Final Monetary Penalty

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 07/27/1983
Actual Date Achieved Compliance: 11/07/1984

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 11/07/1983
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 07/27/1983
Actual Date Achieved Compliance: 12/15/1984

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 11/07/1983
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 07/27/1983
Actual Date Achieved Compliance: 08/14/1985

Enforcement Action: CIVIL ACTION FOR COMPLIANCE
Enforcement Action Date: 09/26/1984
Penalty Type: Final Monetary Penalty

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 07/27/1983
Actual Date Achieved Compliance: 05/20/1987

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 11/07/1983
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 07/27/1983

BOUTIN LORETTA (Continued) **1000396395**

Actual Date Achieved Compliance: 05/20/1987

Penalty Summary:

Penalty Description	Penalty Date	Penalty Amount	Lead Agency
Final Monetary Penalty	3/3/1994	123800	STATE

There are 40 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance
Non-Financial Record Review	TSD-CONTAINERS REQUIREMENTS	19990212
Compliance Evaluation Inspection	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)	19940104
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19940104
	TSD-CONTINGENCY PLAN REQUREMENTS	19940104
	TSD-CONTAINERS REQUIREMENTS	19940104
	TSD-CONTAINERS REQUIREMENTS	19940104
	HAZARDOUS WASTE DETERMINATIONS	19940104
	TSD INSPECTION SCHEDULE & LOG	19940104
	PERSONNEL TRAINING RECORDS	19940104
	TSD-CONTINGENCY PLAN REQUREMENTS	19940104
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19940104
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19940104
Compliance Evaluation Inspection	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)	19940104
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19940104
	TSD-LAND BAN REQUIREMENTS	19950721
	TSD-LAND BAN REQUIREMENTS	
	TSD-CONTINGENCY PLAN REQUREMENTS	19940104
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19881017
Non-Financial Record Review	TSD-GOUNDWATER MONITORING REQUIREMENTS	19870720
Compliance Evaluation Inspection	TSD-GOUNDWATER MONITORING REQUIREMENTS	19870520
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19870520
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19870520
Financial Record Review	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19870615
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19870520
Compliance Evaluation Inspection	TSD-GOUNDWATER MONITORING REQUIREMENTS	19870520
Compliance GW Monitoring Evaluation	TSD-GOUNDWATER MONITORING REQUIREMENTS	19950420
Compliance Evaluation Inspection	TSD-GOUNDWATER MONITORING REQUIREMENTS	19851212
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19870520
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19870615
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19870520
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19870520
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19870520
Compliance GW Monitoring Evaluation	TSD-GOUNDWATER MONITORING REQUIREMENTS	19851212
Compliance Evaluation Inspection	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19870520
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19870520
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19870520
Compliance Schedule Evaluation	FORMAL ENFORCEMENT AGREEMENT	19851112
	FORMAL ENFORCEMENT AGREEMENT	19870520
Compliance Evaluation Inspection	TSD-GOUNDWATER MONITORING REQUIREMENTS	19841107
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19841215
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19850814
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19870520
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19870520

CORRACTS Data:

EPA Id: CTD001165760
Region: 01

BOUTIN LORETTA (Continued) **1000396395**

Area Name: ENTIRE FACILITY
Actual Date: 02/28/1997
Corrective Action: CA225YE - Stabilization Measures Evaluation, This facility ,is amenable to stabilization activity based on the, status of corrective action work at the facility, technical factors, the degree of risk, timing considerations and administrative considerations
2002 NAICS Title: All Other Industrial Machinery Manufacturing
Mechanical Power Transmission Equipment Manufacturing
Metal Stamping
Metal Can Manufacturing

EPA Id: CTD001165760
Region: 01
Area Name: ENTIRE FACILITY
Actual Date: 06/17/1992
Corrective Action: CA070YE - RFA Determination Of Need For An RFI, RFI is Necessary
2002 NAICS Title: All Other Industrial Machinery Manufacturing
Mechanical Power Transmission Equipment Manufacturing
Metal Stamping
Metal Can Manufacturing

EPA Id: CTD001165760
Region: 01
Area Name: ENTIRE FACILITY
Actual Date: 06/17/1992
Corrective Action: CA075ME - CA Prioritization, Facility or area was assigned a medium corrective action priority
2002 NAICS Title: All Other Industrial Machinery Manufacturing
Mechanical Power Transmission Equipment Manufacturing
Metal Stamping
Metal Can Manufacturing

EPA Id: CTD001165760
Region: 01
Area Name: ENTIRE FACILITY
Actual Date: 09/02/2004
Corrective Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified
2002 NAICS Title: All Other Industrial Machinery Manufacturing
Mechanical Power Transmission Equipment Manufacturing
Metal Stamping
Metal Can Manufacturing

EPA Id: CTD001165760
Region: 01
Area Name: ENTIRE FACILITY
Actual Date: 09/03/1993
Corrective Action: CA075HI - CA Prioritization, Facility or area was assigned a high corrective action priority
2002 NAICS Title: All Other Industrial Machinery Manufacturing
Mechanical Power Transmission Equipment Manufacturing
Metal Stamping
Metal Can Manufacturing

Click this hyperlink while viewing on your computer to access
4 additional CORRACTS record(s) in the EDR Site Report.

BOUTIN LORETTA (Continued) **1000396395**

CERCLIS-NFRAP Classification Data:
Federal Facility: Not a Federal Facility
Non NPL Code: DR
NPL Status: Not on the NPL
CERCLIS-NFRAP Assessment History:

Assessment:	DISCOVERY	Completed:	01/01/1981
Assessment:	PRELIMINARY ASSESSMENT	Completed:	01/01/1985
Assessment:	ARCHIVE SITE	Completed:	01/25/1996

CERCLIS-NFRAP Alias Name(s):
MATTATUCK MFG CO
MATTATUCK MANUFACTURING COMPANY

RI MANIFEST:

Manifest Docket Number:	CTF0276489
Waste Description:	111
Quantity:	1400.00
WT/Vol Units:	P
Item Number:	1
Transporter Name:	FRANKLIN PUMPING SERVICES INC
Transporter EPA ID:	MAD084814136
ID:	272875
GEN Cert Date:	11/9/1993 0:00:00
Transporter Recpt Date:	Not reported
Transporter 2 Recpt Date:	Not reported
TSDF Recpt Date:	Not reported
EPA ID:	CTD001165760
Number Of Containers:	0
Container Type:	Not reported
Waste Code1:	F001
Waste Code2:	Not reported
Waste Code3:	Not reported
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDF Name:	NORTHLAND ENVIRONMENTAL INC
TSDF ID:	RID040098352
Data Source:	JAN
Date Imported:	1/11/1995 0:00:00
Transporter 2 Name:	Not reported
Transporter 2 ID:	Not reported
Quantity in LBS.:	0
Fee Reported:	Not reported

Manifest Docket Number:	RIC0023277
Waste Description:	MET HYDROX
Quantity:	2680.00
WT/Vol Units:	G
Item Number:	1
Transporter Name:	SEALAND
Transporter EPA ID:	CTD983872748
ID:	370431
GEN Cert Date:	9/9/1992 0:00:00
Transporter Recpt Date:	Not reported
Transporter 2 Recpt Date:	Not reported
TSDF Recpt Date:	Not reported

BOUTIN LORETTA (Continued) **1000396395**

EPA ID:	CTD001165760
Number Of Containers:	0
Container Type:	Not reported
Waste Code1:	F006
Waste Code2:	Not reported
Waste Code3:	Not reported
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDF Name:	NORTHLAND
TSDF ID:	RID040098352
Data Source:	Not reported
Date Imported:	Not reported
Transporter 2 Name:	Not reported
Transporter 2 ID:	Not reported
Quantity in LBS.:	0
Fee Reported:	Not reported

Facility ID:	500
Rem ID:	Not reported
PTP Id:	Not reported
WPC Number:	Not reported
Postal District:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Lat/Long Determined By:	Not reported
Ground Water Quality Classification:	Not reported
Surface Water Quality Classification:	Not reported
Waste Type:	MOH SLUDGE
Disposal:	LAGOON, WASTE PILE
Sample Data Available:	No
Updated By:	Not reported
Update Program:	Not reported
Updated:	Not reported
Duplicate:	No
EPA CERCLIS Id:	Not reported
Number EPA RCRIS Id:	Not reported
Site on EPA's CERCLIS:	Yes
Site Archived from CERCLIS:	No
Archive Date:	Not reported
EPA's Removal at Site:	No
Deferred to another EPA Program:	Yes
EPA Env Priority Initiative Site:	No
Federal Facility:	No
Site on EPA's National Priority List:	No
Part of an NPL site:	No
RCRA Generator Status:	Not reported
RCRA Permit Status:	Not reported
Referral Id:	491
Source of referral:	RCRA
Date Received:	7/6/1987
Staff Assigned:	DEP
Remediation Program:	SUPERFUND
Date assigned:	7/6/1987

BOUTIN LORETTA (Continued) **1000396395**

Remediation Complete Approved DEP/Verified by LEP: 7/6/1987
Outcome: INVENTORY
Remedial Id: 476
PTP Id: 2066
Remediation Program: III
Remediation Program Entered: Not reported
Staff Assigned: WILCOX, J.
Remediation Program: PTP
Date assigned: Not reported
Project Phase: D
Order issued: No
Order Number: Not reported
Date order issued: Not reported
Remedial Investigation Start: Not reported
Remedial Investigation Completed: Not reported
Remedial Design Start: Not reported
Remedial Design complet: Not reported
Remedial Action Start: Not reported
Remedial Action Completed: Not reported
Date Oper/ maintenance Started: Not reported
GW monitoring: No
Remediation complete Approved DEP/Verified by LEP: Not reported
Order Id: Not reported
Order Number: Not reported
Date order issued: Not reported
Staff Assigned: Not reported
Type of Order: Not reported
Order Respondent: Not reported
Admin Appeal Date: Not reported
Date of Admin Appeal Ruling: Not reported
Date of Admin Appeal Ruling: Not reported
Date of Final Order: Not reported
Date of Court Appeal: Not reported
Date of Court Ruling: Not reported
Date of Court Ruling: Not reported
Date Order Modified: Not reported
Date Order Revoked: Not reported
Date Referred to AG: Not reported
Judgement: Not reported
Date of AGR judgement: Not reported
Penalty assessed: Not reported
Order Complete: Not reported
In compliance: Not reported
Orders Comment: Not reported
Comments: LAND DISPOSAL FACILITY REGULATED UNDER RCRA. WASTE AND CONTAMINATED SOIL ARE BEING REMOVED. GROUNDWATER MONITORING WELLS ARE IN PLACE. ORDER HM-453 ISSUED. REMEDIATION INCOMPLETE. FORM III ALSO FILED 10/13/88

CT Property:
Seller Name: Mattatuck Manufacturing
Buyer Name: Teleflex, Inc.
Certifying Party: Not reported
Certifying Attention Person: Not reported
Title Of Certifying Person: Not reported
Certifying Person Address: Not reported
Certifying Person City,St,Zip: Not reported
Property Transfer Forms: Form III (DEP-PERD-PTP-203) when a discharge, spillage, uncontrolled loss,

BOUTIN LORETTA (Continued) **1000396395**

	seepage or filtration of hazardous waste has occurred at the parcel that has not been fully remediated or the environmental conditions at the parcel are unknown. The person signing the Form III certification agrees to investigate and remediate the site in accordance with the remediation standards. The statute does not require completion of remediation before the parcel is transferred. Any person submitting a Form III shall simultaneously submit a completed Environmental Condition Assessment Form (ECAF)(DEP-PERD-PTP-200).
Date Recieved:	10/13/1988
Ackn Date:	12/30/1988
Determination Date:	Not reported
LEP Verified/DEP Approval Date:	Not reported
Date Data Updated:	5/19/2006

Seller Name:	Loretta Boutin
Buyer Name:	Mattaco Inc.
Certifying Party:	Mattaco Inc.
Certifying Attention Person:	Not reported
Title Of Certifying Person:	Not reported
Certifying Person Address:	Not reported
Certifying Person City,St,Zip:	Not reported
Property Transfer Forms:	Form III (DEP-PERD-PTP-203) when a discharge, spillage, uncontrolled loss, seepage or filtration of hazardous waste has occurred at the parcel that has not been fully remediated or the environmental conditions at the parcel are unknown. The person signing the Form III certification agrees to investigate and remediate the site in accordance with the remediation standards. The statute does not require completion of remediation before the parcel is transferred. Any person submitting a Form III shall simultaneously submit a completed Environmental Condition Assessment Form (ECAF)(DEP-PERD-PTP-200).
Date Recieved:	12/13/1996
Ackn Date:	12/30/1996
Determination Date:	2/10/1997
LEP Verified/DEP Approval Date:	Not reported
Date Data Updated:	5/19/2006

SHWS:

State ID:	500
PTP Id Number:	Not reported
WPC Number:	Not reported
EPA ID:	CTD001165760
PO Office:	Not reported
Lat/Long:	/
Location Method:	Not reported
Groundwater Class:	Not reported
Surface Water Qualification:	Not reported
Waste Category:	MOH SLUDGE
Disposal Method:	LAGOON, WASTE PILE
Sample:	False
Other Dept of Env. Protection:	RCRA
Updated By:	Not reported
Update Program:	Not reported
Date Updated:	Not reported
Duplicate:	Not reported
Program:	7/6/1987
Inventory Date:	TTECRCRA
On Inventory:	Not reported
Assessed:	Not reported
87 Group:	Not reported

BOUTIN LORETTA (Continued) **1000396395**

87 Origin: T H
On 87: Not reported
Comments: LAND DISPOSAL FACILITY REGULATED UNDER RCRA. WASTE AND CONTAMINATED SOIL ARE BEING REMOVED. GROUNDWATER MONITORING WELLS ARE IN PLACE. ORDER HM-453 ISSUED. REMEDIATION INCOMPLETE. FORM III ALSO FILED 10/13/88

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27 WNW 1/2-1 3040 ft. | **PLASMA COATINGS MISCELLANEOUS -GRND , CT** | **LWDS** | **W991102412 N/A**

Relative: Lower

Actual: 316 ft.

LWDS:

ArcView Legend Symbology:	MISC -GRND
Leachate and Wastewater Number:	6914037
Status of the Discharge Activity:	INACTIVE
Leachate and Waste Flow:	GROUND
Feature Number on Hazardous Waste List:	1225
Subregional Basin Feature Number:	6914
Name:	Plasma Coatings
Alias:	Not reported
Leachate and Wastewater Name:	MISCELLANEOUS -GRND
Description:	Not reported
Description 2:	758 E Main St
State Plane x:	923958
State Plane y:	762308
Longitude:	-73.02782
Latitude:	41.55291
Mercator y:	13289716.83261

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28 SE 1/2-1 3243 ft. | **MATTATUCK MFG. INDUSTRIAL WASTEWTR , CT** | **LWDS** | **W991101901 N/A**

Relative: Lower

Actual: 394 ft.

LWDS:

ArcView Legend Symbology:	INDUST WTR
Leachate and Wastewater Number:	6914012
Status of the Discharge Activity:	ACTIVE
Leachate and Waste Flow:	SURFACE
Feature Number on Hazardous Waste List:	0
Subregional Basin Feature Number:	6914
Name:	Mattatuck Mfg.
Alias:	Not reported
Leachate and Wastewater Name:	INDUSTRIAL WASTEWTR
Description:	metal finishing discharge
Description 2:	Not reported
State Plane x:	929280
State Plane y:	759027
Longitude:	-73.00834
Latitude:	41.54395
Mercator y:	13286234.19682

29 East 1/2-1 3749 ft. | **JOSEPH GALASSO PROP LEAKING UNGRND TANK , CT** | **LWDS** | **W991102777 N/A**

Relative: Higher

Actual: 472 ft.

LWDS:

ArcView Legend Symbology:	UNDGR TANK
Leachate and Wastewater Number:	6914034
Status of the Discharge Activity:	INACTIVE
Leachate and Waste Flow:	GROUND
Feature Number on Hazardous Waste List:	826
Subregional Basin Feature Number:	6914
Name:	Joseph Galasso Prop
Alias:	Not reported
Leachate and Wastewater Name:	LEAKING UNGRND TANK
Description:	Not reported
Description 2:	84 Grove St
State Plane x:	930431
State Plane y:	761308
Longitude:	-73.00416
Latitude:	41.55022
Mercator y:	13288671.3736

F30 WNW 1/2-1 3749 ft. | **CENTURY BRASS FORMERLY KNOWN AS 73 HAMILTON AVE WATERBURY, CT 06706** | **RCRA-SQG FINDS RCRA-TSDF CORRACTS** | **1001115721 CTR000003012**

Site 1 of 2 in cluster F

Relative: Lower

Actual: 317 ft.

RCRAInfo Corrective Action Summary:

Event:	Stabilization Measures Evaluation,This facility is amenable to stabilization activity based on the status of corrective action work at the facility, technical factors, the degree of risk, timing considerations and administrative considerations.
Event Date:	06/23/1997
Event:	Current Human Exposures under Control, Yes, Current Human Exposures Under Control has been verified. Based on a review of information contained in the EI determination, current human exposures are expected to be under control at the facility under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.
Event Date:	05/01/1997
Event:	Igration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified. Based on a review of information contained in the EI determination, it has been determined that migration of contaminated groundwater is under control at the facility. Specifically, this determination indicates that the migration of contaminated groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the existing area of contaminated groundwater. This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.
Event Date:	05/01/1997

CENTURY BRASS FORMERLY KNOWN AS (Continued) **1001115721**

Event: Stabilization Construction Completed
Event Date: 05/30/1996

Event: CA772GC
Event Date: 05/30/1996

Event: RFI Imposition
Event Date: 10/26/1994

Event: Stabilization Measures Implemented, Primary measure is source removal and/or treatment (e.g., soil or waste excavation, in-situ soil treatment, off-site treatment).
Event Date: 06/28/1994

Event: RFA Completed
Event Date: 04/01/1992

Event: CA Prioritization, Facility or area was assigned a high corrective action priority.
Event Date: 11/22/1991

RCRAInfo:
Owner: BRASS CENTER LIMITED
(203) 575-1131
EPA ID: CTR000003012

Contact: FRANCIS GRADY
(203) 575-1131

Classification: TSDF
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

RCRAInfo Corrective Action Summary:
Event: Stabilization Measures Evaluation,This facility is amenable to stabilization activity based on the status of corrective action work at the facility, technical factors, the degree of risk, timing considerations and administrative considerations.
Event Date: 06/23/1997

Event: Current Human Exposures under Control, Yes, Current Human Exposures Under Control has been verified. Based on a review of information contained in the EI determination, current human exposures are expected to be under control at the facility under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.
Event Date: 05/01/1997

CENTURY BRASS FORMERLY KNOWN AS (Continued) **1001115721**

Event: Igration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified. Based on a review of information contained in the EI determination, it has been determined that migration of contaminated groundwater is under control at the facility. Specifically, this determination indicates that the migration of contaminated groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the existing area of contaminated groundwater. This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.
Event Date: 05/01/1997

Event: Stabilization Construction Completed
Event Date: 05/30/1996

Event: CA772GC
Event Date: 05/30/1996

Event: RFI Imposition
Event Date: 10/26/1994

Event: Stabilization Measures Implemented, Primary measure is source removal and/or treatment (e.g., soil or waste excavation, in-situ soil treatment, off-site treatment).
Event Date: 06/28/1994

Event: RFA Completed
Event Date: 04/01/1992

Event: CA Prioritization, Facility or area was assigned a high corrective action priority.
Event Date: 11/22/1991

RCRAInfo:
Owner: BRASS CENTER LIMITED
(203) 575-1131
EPA ID: CTR000003012

Contact: FRANCIS GRADY
(203) 575-1131

Classification: TSDF
TSDF Activities: Not reported

Violation Status: No violations found

CORRACTS Data:

EPA Id: CTR000003012
Region: 01
Area Name: ENTIRE FACILITY
Actual Date: 04/01/1992
Corrective Action: CA050 - RFA Completed
2002 NAICS Title: Not reported

EPA Id: CTR000003012
Region: 01
Area Name: ENTIRE FACILITY
Actual Date: 05/01/1997
Corrective Action: CA750YE - Migration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified

CENTURY BRASS FORMERLY KNOWN AS (Continued) **1001115721**

2002 NAICS Title: Not reported

EPA Id: CTR000003012
Region: 01
Area Name: ENTIRE FACILITY
Actual Date: 05/01/1997
Corrective Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified
2002 NAICS Title: Not reported

EPA Id: CTR000003012
Region: 01
Area Name: ENTIRE FACILITY
Actual Date: 05/30/1996
Corrective Action: CA772GC
2002 NAICS Title: Not reported

EPA Id: CTR000003012
Region: 01
Area Name: ENTIRE FACILITY
Actual Date: 05/30/1996
Corrective Action: CA650 - Stabilization Construction Completed
2002 NAICS Title: Not reported

Click this hyperlink while viewing on your computer to access
4 additional CORRACTS record(s) in the EDR Site Report.

F31
WNW
1/2-1
3749 ft.

Relative:
Lower

Actual:
317 ft.

BRASS CENTER LIMITED
73 HAMILTON AVENUE
WATERBURY, CT 06720

Site 2 of 2 in cluster F

RCRA-SQG **1000881070**
FINDS **CTD060008307**
RCRA-TSDF
CORRACTS
CERC-NFRAP
CT MANIFEST
US ENG CONTROLS
NY MANIFEST
RI MANIFEST

RCRAInfo Corrective Action Summary:

Event: Current Human Exposures under Control, Yes, Current Human Exposures Under Control has been verified. Based on a review of information contained in the EI determination, current human exposures are expected to be under control at the facility under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.
Event Date: 09/28/2005

Event: Igration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified. Based on a review of information contained in the EI determination, it has been determined that migration of contaminated groundwater is under control at the facility. Specifically, this determination indicates that the migration of contaminated groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the existing area of contaminated groundwater. This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.
Event Date: 09/28/2005

BRASS CENTER LIMITED (Continued) **1000881070**

Event: Current Human Exposures under Control, More information is needed to make a determination.
Event Date: 07/11/1997

Event: Igration of Contaminated Groundwater under Control, More information is needed to make a determination.
Event Date: 07/11/1997

Event: RFA Completed
Event Date: 04/01/1992

Event: RFA Determination Of Need For An RFI, RFI is Necessary;
Event Date: 04/01/1992

Event: CA Prioritization, Facility or area was assigned a high corrective action priority.
Event Date: 11/22/1991

Event: CA770NG
Event Date: 10/12/1989

Event: RFI Imposition
Event Date: 06/01/1987

RCRAInfo:
Owner: CENTURY BRASS PRODUCTS INC
(203) 574-7700
EPA ID: CTD060008307

Contact: MICHEAL WALKER
(203) 574-7700

Classification: TSDF
TSDF Activities: Not reported

Violation Status: Violations exist

Regulation Violated: 265 Subpart G
Area of Violation: FORMAL ENFORCEMENT AGREEMENT
Date Violation Determined: 12/22/1997
Actual Date Achieved Compliance: Not reported

Enforcement Action: UNILATERAL ORDER, NO PENALTIES
Enforcement Action Date: 01/13/1998
Penalty Type: Not reported

Regulation Violated: 265.14
Area of Violation: SITE SECURITY
Date Violation Determined: 12/22/1997
Actual Date Achieved Compliance: Not reported

Enforcement Action: UNILATERAL ORDER, NO PENALTIES
Enforcement Action Date: 01/13/1998
Penalty Type: Not reported

Regulation Violated: 265 Subpart G
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 12/22/1997
Actual Date Achieved Compliance: Not reported

Enforcement Action: UNILATERAL ORDER, NO PENALTIES
Enforcement Action Date: 01/13/1998
Penalty Type: Not reported

Regulation Violated: Not reported

BRASS CENTER LIMITED (Continued) **1000881070**

Area of Violation: HAZARDOUS WASTE DETERMINATIONS
Date Violation Determined: 09/04/1991
Actual Date Achieved Compliance: 09/26/1997

Regulation Violated: Not reported
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 07/17/1990
Actual Date Achieved Compliance: 09/26/1997

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 07/17/1990
Actual Date Achieved Compliance: 09/26/1997

Regulation Violated: Not reported
Area of Violation: HAZARDOUS WASTE DETERMINATIONS
Date Violation Determined: 07/17/1990
Actual Date Achieved Compliance: 09/26/1997

Regulation Violated: Not reported
Area of Violation: SITE SECURITY
Date Violation Determined: 07/17/1990
Actual Date Achieved Compliance: 09/26/1997

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 08/22/1989
Actual Date Achieved Compliance: 09/26/1997

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 08/22/1989
Actual Date Achieved Compliance: 09/26/1997

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 08/22/1989
Actual Date Achieved Compliance: 09/26/1997

Regulation Violated: Not reported
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 08/22/1989
Actual Date Achieved Compliance: 09/26/1997

Regulation Violated: Not reported
Area of Violation: GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined: 08/22/1989
Actual Date Achieved Compliance: 09/26/1997

Regulation Violated: Not reported
Area of Violation: TSD-LAND BAN REQUIREMENTS
Date Violation Determined: 08/22/1989
Actual Date Achieved Compliance: 09/26/1997

Regulation Violated: Not reported
Area of Violation: HAZARDOUS WASTE DETERMINATIONS
Date Violation Determined: 08/22/1989
Actual Date Achieved Compliance: 09/26/1997

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 09/01/1988
Actual Date Achieved Compliance: 09/26/1997

BRASS CENTER LIMITED (Continued) **1000881070**

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 09/01/1988
Actual Date Achieved Compliance: 09/26/1997

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 09/29/1987
Actual Date Achieved Compliance: 09/26/1997

Enforcement Action: CONSENT ORDER, NO PENALTIES
Enforcement Action Date: 09/30/1987
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 09/29/1987
Actual Date Achieved Compliance: 09/26/1997

Enforcement Action: CONSENT ORDER, NO PENALTIES
Enforcement Action Date: 09/30/1987
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD INSPECTION SCHEDULE & LOG
Date Violation Determined: 09/29/1987
Actual Date Achieved Compliance: 09/26/1997

Enforcement Action: CONSENT ORDER, NO PENALTIES
Enforcement Action Date: 09/30/1987
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 09/29/1987
Actual Date Achieved Compliance: 09/26/1997

Enforcement Action: CONSENT ORDER, NO PENALTIES
Enforcement Action Date: 09/30/1987
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 09/15/1986
Actual Date Achieved Compliance: 09/26/1997

Enforcement Action: CONSENT ORDER, NO PENALTIES
Enforcement Action Date: 09/30/1987
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: OPERATING RECORDS
Date Violation Determined: 09/15/1986
Actual Date Achieved Compliance: 09/26/1997

Enforcement Action: CONSENT ORDER, NO PENALTIES
Enforcement Action Date: 09/30/1987
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 09/10/1985
Actual Date Achieved Compliance: 09/26/1997

BRASS CENTER LIMITED (Continued) **1000881070**

Enforcement Action: CONSENT ORDER, NO PENALTIES
Enforcement Action Date: 09/30/1987
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 09/10/1985
Actual Date Achieved Compliance: 09/26/1997

Enforcement Action: CONSENT ORDER, NO PENALTIES
Enforcement Action Date: 09/30/1987
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 03/06/1985
Actual Date Achieved Compliance: 09/26/1997

Enforcement Action: CONSENT ORDER, NO PENALTIES
Enforcement Action Date: 09/30/1987
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-CONTINGENCY PLAN REQUREMENTS
Date Violation Determined: 03/06/1985
Actual Date Achieved Compliance: 09/26/1997

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 03/06/1985
Actual Date Achieved Compliance: 09/26/1997

Enforcement Action: CONSENT ORDER, NO PENALTIES
Enforcement Action Date: 09/30/1987
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-CONTAINERS REQUIREMENTS
Date Violation Determined: 03/06/1985
Actual Date Achieved Compliance: 09/26/1997

Enforcement Action: CONSENT ORDER, NO PENALTIES
Enforcement Action Date: 09/30/1987
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: PERSONNEL TRAINING RECORDS
Date Violation Determined: 03/06/1985
Actual Date Achieved Compliance: 09/26/1997

Enforcement Action: CONSENT ORDER, NO PENALTIES
Enforcement Action Date: 09/30/1987
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 03/21/1984
Actual Date Achieved Compliance: 09/30/1987

Enforcement Action: CONSENT ORDER, NO PENALTIES
Enforcement Action Date: 09/30/1987
Penalty Type: Not reported

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER

BRASS CENTER LIMITED (Continued) **1000881070**

Enforcement Action Date: 09/28/1984
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 03/21/1984
Actual Date Achieved Compliance: 10/30/1987

Enforcement Action: CONSENT ORDER, NO PENALTIES
Enforcement Action Date: 09/30/1987
Penalty Type: Not reported

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 09/28/1984
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 03/21/1984
Actual Date Achieved Compliance: 09/26/1997

Enforcement Action: CONSENT ORDER, NO PENALTIES
Enforcement Action Date: 09/30/1987
Penalty Type: Not reported

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 09/28/1984
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: OPERATING RECORDS
Date Violation Determined: 03/21/1984
Actual Date Achieved Compliance: 09/26/1997

Enforcement Action: CONSENT ORDER, NO PENALTIES
Enforcement Action Date: 09/30/1987
Penalty Type: Not reported

There are 34 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance
Non-Financial Record Review	FORMAL ENFORCEMENT AGREEMENT	
	SITE SECURITY	
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	
Compliance Evaluation Inspection	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19970926
	TSD-GOUNDWATER MONITORING REQUIREMENTS	19970926
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19970926
	TSD-GOUNDWATER MONITORING REQUIREMENTS	19970926
	TSD-GOUNDWATER MONITORING REQUIREMENTS	19970926
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19970926
	OPERATING RECORDS	19970926
	TSD-GOUNDWATER MONITORING REQUIREMENTS	19970926
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19970926
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19970926
	TSD INSPECTION SCHEDULE & LOG	19970926
	TSD-CONTAINERS REQUIREMENTS	19970926
	TSD-CONTINGENCY PLAN REQUREMENTS	19970926
	TSD-GOUNDWATER MONITORING REQUIREMENTS	19970926
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19970926
	TSD-GOUNDWATER MONITORING REQUIREMENTS	19970926
	TSD-GOUNDWATER MONITORING REQUIREMENTS	19970926

BRASS CENTER LIMITED (Continued) **1000881070**

	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19970926
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19970926
	HAZARDOUS WASTE DETERMINATIONS	19970926
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19970926
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19970926
	SITE SECURITY	19970926
	HAZARDOUS WASTE DETERMINATIONS	19970926
	HAZARDOUS WASTE DETERMINATIONS	19970926
Compliance Evaluation Inspection	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19970926
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19970926
	SITE SECURITY	19970926
	HAZARDOUS WASTE DETERMINATIONS	19970926
Compliance Evaluation Inspection	TSD-GOUNDWATER MONITORING REQUIREMENTS	19970926
	TSD-GOUNDWATER MONITORING REQUIREMENTS	19970926
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19970926
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19970926
	HAZARDOUS WASTE DETERMINATIONS	19970926
	GENERATOR-LAND BAN REQUIREMENTS	19970926
	TSD-LAND BAN REQUIREMENTS	19970926
Compliance Evaluation Inspection	TSD-GOUNDWATER MONITORING REQUIREMENTS	19970926
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19970926
Compliance GW Monitoring Evaluation	TSD-GOUNDWATER MONITORING REQUIREMENTS	19970926
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19970926
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19970926
	TSD INSPECTION SCHEDULE & LOG	19970926
Compliance Evaluation Inspection	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19970926
	OPERATING RECORDS	19970926
Compliance GW Monitoring Evaluation	TSD-GOUNDWATER MONITORING REQUIREMENTS	19970926
Non-Financial Record Review	TSD-GOUNDWATER MONITORING REQUIREMENTS	19970926
Compliance Evaluation Inspection	TSD-GOUNDWATER MONITORING REQUIREMENTS	19970926
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19970926
	PERSONNEL TRAINING RECORDS	19970926
Compliance Schedule Evaluation	TSD-CONTAINERS REQUIREMENTS	19970926
	TSD-CONTINGENCY PLAN REQUREMENTS	19970926
Compliance Evaluation Inspection	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19870930
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19871030
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19970926
	OPERATING RECORDS	19970926

FINDS:

Other Pertinent Environmental Activity Identified at Site:

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

BRASS CENTER LIMITED (Continued) **1000881070**

RCRAInfo Corrective Action Summary:

Event: Current Human Exposures under Control, Yes, Current Human Exposures Under Control has been verified. Based on a review of information contained in the EI determination, current human exposures are expected to be under control at the facility under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.
Event Date: 09/28/2005

Event: Igration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified. Based on a review of information contained in the EI determination, it has been determined that migration of contaminated groundwater is under control at the facility. Specifically, this determination indicates that the migration of contaminated groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the existing area of contaminated groundwater. This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.
Event Date: 09/28/2005

Event: Current Human Exposures under Control, More information is needed to make a determination.
Event Date: 07/11/1997

Event: Igration of Contaminated Groundwater under Control, More information is needed to make a determination.
Event Date: 07/11/1997

Event: RFA Completed
Event Date: 04/01/1992

Event: RFA Determination Of Need For An RFI, RFI is Necessary;
Event Date: 04/01/1992

Event: CA Prioritization, Facility or area was assigned a high corrective action priority.
Event Date: 11/22/1991

Event: CA770NG
Event Date: 10/12/1989

Event: RFI Imposition
Event Date: 06/01/1987

RCRAInfo:

Owner: CENTURY BRASS PRODUCTS INC
(203) 574-7700
EPA ID: CTD060008307

Contact: MICHEAL WALKER
(203) 574-7700

Classification: TSDF
TSDF Activities: Not reported

BRASS CENTER LIMITED (Continued) **1000881070**

Violation Status: Violations exist

Regulation Violated: 265 Subpart G
Area of Violation: FORMAL ENFORCEMENT AGREEMENT
Date Violation Determined: 12/22/1997
Actual Date Achieved Compliance: Not reported

Enforcement Action: UNILATERAL ORDER, NO PENALTIES
Enforcement Action Date: 01/13/1998
Penalty Type: Not reported

Regulation Violated: 265.14
Area of Violation: SITE SECURITY
Date Violation Determined: 12/22/1997
Actual Date Achieved Compliance: Not reported

Enforcement Action: UNILATERAL ORDER, NO PENALTIES
Enforcement Action Date: 01/13/1998
Penalty Type: Not reported

Regulation Violated: 265 Subpart G
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 12/22/1997
Actual Date Achieved Compliance: Not reported

Enforcement Action: UNILATERAL ORDER, NO PENALTIES
Enforcement Action Date: 01/13/1998
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: HAZARDOUS WASTE DETERMINATIONS
Date Violation Determined: 09/04/1991
Actual Date Achieved Compliance: 09/26/1997

Regulation Violated: Not reported
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 07/17/1990
Actual Date Achieved Compliance: 09/26/1997

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 07/17/1990
Actual Date Achieved Compliance: 09/26/1997

Regulation Violated: Not reported
Area of Violation: HAZARDOUS WASTE DETERMINATIONS
Date Violation Determined: 07/17/1990
Actual Date Achieved Compliance: 09/26/1997

Regulation Violated: Not reported
Area of Violation: SITE SECURITY
Date Violation Determined: 07/17/1990
Actual Date Achieved Compliance: 09/26/1997

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 08/22/1989
Actual Date Achieved Compliance: 09/26/1997

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 08/22/1989
Actual Date Achieved Compliance: 09/26/1997

BRASS CENTER LIMITED (Continued) **1000881070**

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 08/22/1989
Actual Date Achieved Compliance: 09/26/1997

Regulation Violated: Not reported
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 08/22/1989
Actual Date Achieved Compliance: 09/26/1997

Regulation Violated: Not reported
Area of Violation: GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined: 08/22/1989
Actual Date Achieved Compliance: 09/26/1997

Regulation Violated: Not reported
Area of Violation: TSD-LAND BAN REQUIREMENTS
Date Violation Determined: 08/22/1989
Actual Date Achieved Compliance: 09/26/1997

Regulation Violated: Not reported
Area of Violation: HAZARDOUS WASTE DETERMINATIONS
Date Violation Determined: 08/22/1989
Actual Date Achieved Compliance: 09/26/1997

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 09/01/1988
Actual Date Achieved Compliance: 09/26/1997

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 09/01/1988
Actual Date Achieved Compliance: 09/26/1997

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 09/29/1987
Actual Date Achieved Compliance: 09/26/1997

Enforcement Action: CONSENT ORDER, NO PENALTIES
Enforcement Action Date: 09/30/1987
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 09/29/1987
Actual Date Achieved Compliance: 09/26/1997

Enforcement Action: CONSENT ORDER, NO PENALTIES
Enforcement Action Date: 09/30/1987
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD INSPECTION SCHEDULE & LOG
Date Violation Determined: 09/29/1987
Actual Date Achieved Compliance: 09/26/1997

Enforcement Action: CONSENT ORDER, NO PENALTIES
Enforcement Action Date: 09/30/1987
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS

BRASS CENTER LIMITED (Continued) **1000881070**

Date Violation Determined: 09/29/1987
Actual Date Achieved Compliance: 09/26/1997

Enforcement Action: CONSENT ORDER, NO PENALTIES
Enforcement Action Date: 09/30/1987
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 09/15/1986
Actual Date Achieved Compliance: 09/26/1997

Enforcement Action: CONSENT ORDER, NO PENALTIES
Enforcement Action Date: 09/30/1987
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: OPERATING RECORDS
Date Violation Determined: 09/15/1986
Actual Date Achieved Compliance: 09/26/1997

Enforcement Action: CONSENT ORDER, NO PENALTIES
Enforcement Action Date: 09/30/1987
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 09/10/1985
Actual Date Achieved Compliance: 09/26/1997

Enforcement Action: CONSENT ORDER, NO PENALTIES
Enforcement Action Date: 09/30/1987
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 09/10/1985
Actual Date Achieved Compliance: 09/26/1997

Enforcement Action: CONSENT ORDER, NO PENALTIES
Enforcement Action Date: 09/30/1987
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 03/06/1985
Actual Date Achieved Compliance: 09/26/1997

Enforcement Action: CONSENT ORDER, NO PENALTIES
Enforcement Action Date: 09/30/1987
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-CONTINGENCY PLAN REQUREMENTS
Date Violation Determined: 03/06/1985
Actual Date Achieved Compliance: 09/26/1997

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 03/06/1985
Actual Date Achieved Compliance: 09/26/1997

Enforcement Action: CONSENT ORDER, NO PENALTIES
Enforcement Action Date: 09/30/1987

BRASS CENTER LIMITED (Continued) **1000881070**

Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-CONTAINERS REQUIREMENTS
Date Violation Determined: 03/06/1985
Actual Date Achieved Compliance: 09/26/1997

Enforcement Action: CONSENT ORDER, NO PENALTIES
Enforcement Action Date: 09/30/1987
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: PERSONNEL TRAINING RECORDS
Date Violation Determined: 03/06/1985
Actual Date Achieved Compliance: 09/26/1997

Enforcement Action: CONSENT ORDER, NO PENALTIES
Enforcement Action Date: 09/30/1987
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 03/21/1984
Actual Date Achieved Compliance: 09/30/1987

Enforcement Action: CONSENT ORDER, NO PENALTIES
Enforcement Action Date: 09/30/1987
Penalty Type: Not reported

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 09/28/1984
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 03/21/1984
Actual Date Achieved Compliance: 10/30/1987

Enforcement Action: CONSENT ORDER, NO PENALTIES
Enforcement Action Date: 09/30/1987
Penalty Type: Not reported

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 09/28/1984
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 03/21/1984
Actual Date Achieved Compliance: 09/26/1997

Enforcement Action: CONSENT ORDER, NO PENALTIES
Enforcement Action Date: 09/30/1987
Penalty Type: Not reported

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 09/28/1984
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: OPERATING RECORDS
Date Violation Determined: 03/21/1984
Actual Date Achieved Compliance: 09/26/1997

Enforcement Action: CONSENT ORDER, NO PENALTIES

BRASS CENTER LIMITED (Continued) **1000881070**

Enforcement Action Date: 09/30/1987
Penalty Type: Not reported

There are 34 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance
Non-Financial Record Review	FORMAL ENFORCEMENT AGREEMENT	
	SITE SECURITY	
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	
Compliance Evaluation Inspection	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19970926
	TSD-GOUNDWATER MONITORING REQUIREMENTS	19970926
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19970926
	TSD-GOUNDWATER MONITORING REQUIREMENTS	19970926
	TSD-GOUNDWATER MONITORING REQUIREMENTS	19970926
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19970926
	OPERATING RECORDS	19970926
	TSD-GOUNDWATER MONITORING REQUIREMENTS	19970926
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19970926
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19970926
	TSD INSPECTION SCHEDULE & LOG	19970926
	TSD-CONTAINERS REQUIREMENTS	19970926
	TSD-CONTINGENCY PLAN REQUREMENTS	19970926
	TSD-GOUNDWATER MONITORING REQUIREMENTS	19970926
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19970926
	TSD-GOUNDWATER MONITORING REQUIREMENTS	19970926
	TSD-GOUNDWATER MONITORING REQUIREMENTS	19970926
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19970926
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19970926
	HAZARDOUS WASTE DETERMINATIONS	19970926
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19970926
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19970926
	SITE SECURITY	19970926
	HAZARDOUS WASTE DETERMINATIONS	19970926
	HAZARDOUS WASTE DETERMINATIONS	19970926
Compliance Evaluation Inspection	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19970926
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19970926
	SITE SECURITY	19970926
	HAZARDOUS WASTE DETERMINATIONS	19970926
Compliance Evaluation Inspection	TSD-GOUNDWATER MONITORING REQUIREMENTS	19970926
	TSD-GOUNDWATER MONITORING REQUIREMENTS	19970926
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19970926
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19970926
	HAZARDOUS WASTE DETERMINATIONS	19970926
	GENERATOR-LAND BAN REQUIREMENTS	19970926
	TSD-LAND BAN REQUIREMENTS	19970926
Compliance Evaluation Inspection	TSD-GOUNDWATER MONITORING REQUIREMENTS	19970926
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19970926
Compliance GW Monitoring Evaluation	TSD-GOUNDWATER MONITORING REQUIREMENTS	19970926
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19970926
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19970926
	TSD INSPECTION SCHEDULE & LOG	19970926
Compliance Evaluation Inspection	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19970926
	OPERATING RECORDS	19970926
Compliance GW Monitoring Evaluation	TSD-GOUNDWATER MONITORING REQUIREMENTS	19970926
Non-Financial Record Review	TSD-GOUNDWATER MONITORING REQUIREMENTS	19970926
Compliance Evaluation Inspection	TSD-GOUNDWATER MONITORING REQUIREMENTS	19970926
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19970926

BRASS CENTER LIMITED (Continued) **1000881070**

	PERSONNEL TRAINING RECORDS	19970926
Compliance Schedule Evaluation	TSD-CONTAINERS REQUIREMENTS	19970926
	TSD-CONTINGENCY PLAN REQUREMENTS	19970926
Compliance Evaluation Inspection	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19870930
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19871030
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19970926
	OPERATING RECORDS	19970926

CORRACTS Data:

EPA Id: CTD060008307
Region: 01
Area Name: ENTIRE FACILITY
Actual Date: 04/01/1992
Corrective Action: CA070YE - RFA Determination Of Need For An RFI, RFI is Necessary
2002 NAICS Title: Not reported

EPA Id: CTD060008307
Region: 01
Area Name: ENTIRE FACILITY
Actual Date: 04/01/1992
Corrective Action: CA050 - RFA Completed
2002 NAICS Title: Not reported

EPA Id: CTD060008307
Region: 01
Area Name: ENTIRE FACILITY
Actual Date: 06/01/1987
Corrective Action: CA100 - RFI Imposition
2002 NAICS Title: Not reported

EPA Id: CTD060008307
Region: 01
Area Name: ENTIRE FACILITY
Actual Date: 07/11/1997
Corrective Action: CA750IN - Migration of Contaminated Groundwater under Control , More information is needed to make a determination
2002 NAICS Title: Not reported

EPA Id: CTD060008307
Region: 01
Area Name: ENTIRE FACILITY
Actual Date: 07/11/1997
Corrective Action: CA725IN - Current Human Exposures Under Control , More information is needed to make a determination
2002 NAICS Title: Not reported

Click this hyperlink while viewing on your computer to access
4 additional CORRACTS record(s) in the EDR Site Report.

CERCLIS-NFRAP Classification Data:
Federal Facility: Not a Federal Facility
Non NPL Code: DR
NPL Status: Not on the NPL

CERCLIS-NFRAP Assessment History:
Assessment: DISCOVERY Completed: 06/30/1988
Assessment: PRELIMINARY ASSESSMENT Completed: 12/16/1988

BRASS CENTER LIMITED (Continued) **1000881070**

Assessment: ARCHIVE SITE Completed: 01/25/1996

CERCLIS-NFRAP Alias Name(s):
CENTURY BRASS, WATERBURY
CENTURY BRASS, WATERBURY

CT MANIFEST:

Year:	2001
Manifest ID:	CTF1004187
TSDF EPA ID:	RID040098352
TSDF Name:	NORTHLAND ENVIRONMENTAL, INC (STABLEX, RI)
TSDF Address:	252 - 275 ALLENS AVE
TSDF City,St,Zip:	PROVIDENCE, RI 02905
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	04/02/01
Transporter EPA ID:	CTD018811802
Transporter Name:	ENVIRONMENTAL SERV MITCHELL ASSOC
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:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
Generator EPA ID:	CTD060008307
Gererator Phone:	2035747700
Generator Address:	Not reported
Generator City,State,Zip:	Not reported
Generator Country:	Not reported
Special Handling:	Not reported
Discrepancies:	No
Date Shipped:	04/02/01
Date Received:	04/02/01
Last modified date:	04/27/04
Last modified by:	IG
Comments:	Not reported

Click this hyperlink while viewing on your computer to access
72 additional CT MANIFEST: record(s) in the EDR Site Report.

US Engineering Control Sites:

EPA ID:	CTD060008307
Site ID:	Not reported
EPA Region:	1
County:	NEW HAVEN
Event Code :	CA770NG
Actual Date:	10/12/1989
Action ID:	Not reported
Action Name:	Not reported
Action Completion date:	Not reported
Planned Completion date:	Not reported
Operable Unit:	Not reported
Contaminated Media:	Not reported
Contam. Media num.:	Not reported
Engineering Control:	Not reported

BRASS CENTER LIMITED (Continued) **1000881070**

NY MANIFEST:

Document ID:	NYG0539955
Manifest Status:	Not reported
Trans1 State ID:	CTD018811802
Trans2 State ID:	Not reported
Generator Ship Date:	03/20/2001
Trans1 Recv Date:	03/20/2001
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/21/2001
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTD060008307
Trans1 EPA ID:	NYD049836679
Trans2 EPA ID:	Not reported
TSDF ID:	CT10A
Waste Code:	D006 - CADMIUM 1.0 MG/L TCLP
Quantity:	27160
Units:	P - Pounds
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	01
Facility Type:	Generator
EPA ID:	CTD060008307
Facility Name:	CENTURY BRASS PRODUCTS
Facility Address:	17 SILVER ST
Facility City:	WATERBURY
Facility Zip 4:	1037
Country:	USA
County:	Not reported
Mailing Name:	CENTURY BRASS PRODUCTS
Mailing Contact:	DAVID RINGQUIST
Mailing Address:	17 SILVER ST
Mailing City:	WATERBURY
Mailing State:	CT
Mailing Zip:	06705
Mailing Zip4:	1037
Mailing Country:	USA
Mailing Phone:	860-424-3573

Click this hyperlink while viewing on your computer to access
4 additional NY MANIFEST: record(s) in the EDR Site Report.

RI MANIFEST:

Manifest Docket Number:	CTF1004187
Waste Description:	HEAT TREATING
Quantity:	1500.00
WT/Vol Units:	L
Item Number:	2753
Transporter Name:	ENVIRONMENTAL SERVICES, INC..
Transporter EPA ID:	N/A
ID:	106082
GEN Cert Date:	4/2/2001 0:00:00
Transporter Recpt Date:	Not reported
Transporter 2 Recpt Date:	Not reported

BRASS CENTER LIMITED (Continued) **1000881070**

TSDF Recpt Date:	Not reported
EPA ID:	CTD060008307
Number Of Containers:	0
Container Type:	Not reported
Waste Code1:	D003
Waste Code2:	Not reported
Waste Code3:	Not reported
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDF Name:	NORTHLAND ENVIRONMENTAL INC.
TSDF ID:	RID040098352
Data Source:	MD-ELEC
Date Imported:	8/22/2001 0:00:00
Transporter 2 Name:	Not reported
Transporter 2 ID:	Not reported
Quantity in LBS.:	1500
Fee Reported:	Not reported

Manifest Docket Number:	CTF1004187
Waste Description:	HEAT TREATING
Quantity:	1500.00
WT/Vol Units:	L
Item Number:	6152
Transporter Name:	ENVIRONMENTAL SERVICES, INC..
Transporter EPA ID:	N/A
ID:	106083
GEN Cert Date:	4/2/2001 0:00:00
Transporter Recpt Date:	Not reported
Transporter 2 Recpt Date:	Not reported
TSDF Recpt Date:	Not reported
EPA ID:	CTD060008307
Number Of Containers:	0
Container Type:	Not reported
Waste Code1:	D003
Waste Code2:	Not reported
Waste Code3:	Not reported
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDF Name:	NORTHLAND ENVIRONMENTAL INC.
TSDF ID:	RID040098352
Data Source:	MD-ELEC
Date Imported:	8/22/2001 0:00:00
Transporter 2 Name:	Not reported
Transporter 2 ID:	Not reported
Quantity in LBS.:	1500
Fee Reported:	Not reported

32 WNW 1/2-1 4671 ft. | **SCOVILLE MANUFACTURING LANDFILL , CT** | **LWDS** | **W991102399 N/A**

Relative: Lower

Actual: 299 ft.

LWDS:

ArcView Legend Symbology:	LANDFILL
Leachate and Wastewater Number:	6914023
Status of the Discharge Activity:	INACTIVE
Leachate and Waste Flow:	GROUND
Feature Number on Hazardous Waste List:	507
Subregional Basin Feature Number:	6914
Name:	Scoville Manufacturing
Alias:	Not reported
Leachate and Wastewater Name:	LANDFILL
Description:	Scoville Plaza 99 Mill St
Description 2:	Not reported
State Plane x:	922176
State Plane y:	762158
Longitude:	-73.03433
Latitude:	41.55248
Mercator y:	13289550.94232

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33 WNW 1/2-1 4934 ft. | **SCOVILLE MANUFACTURING 99 MILL STREET WATERBURY, CT 06716** | **SHWS SDADB** | **S100996937 N/A**

Relative: Lower

Actual: 303 ft.

SHWS:

State ID:	507
PTP Id Number:	Not reported
WPC Number:	Not reported
EPA ID:	CTD001317395
PO Office:	Not reported
Lat/Long:	/
Location Method:	Not reported
Groundwater Class:	Not reported
Surface Water Qualification:	Not reported
Waste Category:	METALS, MOH SLUDGE
Disposal Method:	LANDFILL
Sample:	False
Other Dept of Env. Protection:	RCRA
Updated By:	Not reported
Update Program:	Not reported
Date Updated:	Not reported
Duplicate:	Not reported
Program:	7/6/1987
Inventory Date:	TTECINVENT
On Inventory:	O
Assessed:	R
87 Group:	Y
87 Origin:	T H
On 87:	Not reported

Comments: 5,000 TONS. (7/87) PART OF CENTURY BRASS. ORIGINALLY ON BOTH CERCLIS AND THE INVENTORY CONSOLIDATED ON CERCLIS. DEFERRED TO RCRA. THIS MAY BE THE SAME AS SID# 1403 (4/96) SCOVILLE PLAZA

Facility ID:	507
Rem ID:	Not reported
PTP Id:	Not reported

SCOVILLE MANUFACTURING (Continued) **S100996937**

WPC Number:	Not reported
Postal District:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Lat/Long Determined By:	Not reported
Ground Water Quality Classification:	Not reported
Surface Water Quality Classification:	Not reported
Waste Type:	METALS, MOH SLUDGE
Disposal:	LANDFILL
Sample Data Available:	No
Updated By:	Not reported
Update Program:	Not reported
Updated:	Not reported
Duplicate:	No
EPA CERCLIS Id:	Not reported
Number EPA RCRIS Id:	Not reported
Site on EPA's CERCLIS:	Not reported
Site Archived from CERCLIS:	Not reported
Archive Date:	Not reported
EPA's Removal at Site:	Not reported
Deferred to another EPA Program:	Not reported
EPA Env Priority Initiative Site:	Not reported
Federal Facility:	Not reported
Site on EPA's National Priority List:	Not reported
Part of an NPL site:	Not reported
RCRA Generator Status:	Not reported
RCRA Permit Status:	Not reported
Referral Id:	497
Source of referral:	SUPERFUND
Date Received:	7/6/1987
Staff Assigned:	DEP
Remediation Program:	SUPERFUND
Date assigned:	7/6/1987
Remediation Complete Approved DEP/Verified by LEP:	7/6/1987
Outcome:	INVENTORY
Remedial Id:	Not reported
PTP Id:	Not reported
Remediation Program:	Not reported
Remediation Program Entered:	Not reported
Staff Assigned:	Not reported
Remediation Program:	Not reported
Date assigned:	Not reported
Project Phase:	Not reported
Order issued:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Remedial Investigation Start:	Not reported
Remedial Investigation Completed:	Not reported
Remedial Design Start:	Not reported
Remedial Design complet:	Not reported
Remedial Action Start:	Not reported
Remedial Action Completed:	Not reported
Date Oper/ maintenance Started:	Not reported
GW monitoring:	Not reported
Remediation complete Approved DEP/Verified by LEP:	Not reported
Order Id:	Not reported
Order Number:	Not reported

SCOVILLE MANUFACTURING (Continued) **S100996937**

Date order issued:	Not reported
Staff Assigned:	Not reported
Type of Order:	Not reported
Order Respondent:	Not reported
Admin Appeal Date:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Final Order:	Not reported
Date of Court Appeal:	Not reported
Date of Court Ruling:	Not reported
Date of Court Ruling:	Not reported
Date Order Modified:	Not reported
Date Order Revoked:	Not reported
Date Referred to AG:	Not reported
Judgement:	Not reported
Date of AGR judgement:	Not reported
Penalty assessed:	Not reported
Order Complete:	Not reported
In compliance:	Not reported
Orders Comment:	Not reported
Comments:	5,000 TONS. (7/87) PART OF CENTURY BRASS. ORIGINALLY ON BOTH CERCLIS AND THE INVENTORY CONSOLIDATED ON CERCLIS. DEFERRED TO RCRA. THIS MAY BE THE SAME AS SID# 1403 (4/96) SCOVILLE PLAZA

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34 West 1/2-1 4949 ft. **NOVA DYE & PRINT CORP** **LWDS** **W991102413**
OIL/CHEMICAL SPILLS **N/A**
, CT

Relative: Lower

Actual: 288 ft.

LWDS:

ArcView Legend Symbology:	SPILL
Leachate and Wastewater Number:	6914039
Status of the Discharge Activity:	INACTIVE
Leachate and Waste Flow:	GROUND
Feature Number on Hazardous Waste List:	1400
Subregional Basin Feature Number:	6914
Name:	Nova Dye & Print Corp
Alias:	Not reported
Leachate and Wastewater Name:	OIL/CHEMICAL SPILLS
Description:	Not reported
Description 2:	313 Mill St
State Plane x:	921768
State Plane y:	760526
Longitude:	-73.0358
Latitude:	41.548
Mercator y:	13287808.20173

35 WNW 1/2-1 5187 ft. | **CENTURY BRASS BRASS MILL CENTER WATERBURY, CT** | **SHWS CT Spills CT PROPERTY SDADB** | **S100997044 N/A**

Relative: Lower

Actual: 303 ft.

SHWS:

State ID:	490
PTP Id Number:	Not reported
WPC Number:	Not reported
EPA ID:	CTD060008307
PO Office:	Not reported
Lat/Long:	41.5481/-73.0258
Location Method:	Not reported
Groundwater Class:	Not reported
Surface Water Qualification:	Not reported
Waste Category:	MOH SLUDGE
Disposal Method:	WASTE PILE
Sample:	False
Other Dept of Env. Protection:	RCRA, WCU
Updated By:	Not reported
Update Program:	Not reported
Date Updated:	Not reported
Duplicate:	Not reported
Program:	7/6/1987
Inventory Date:	TTRIRCRA
On Inventory:	Not reported
Assessed:	Not reported
87 Group:	Not reported
87 Origin:	T H
On 87:	Not reported

Comments: 8-9M. LBS.LAND DISPOSAL FACILITY REGULATED UNDER RCRA. GROUNDWATER MONITORING WELLS INSTALLED. COMPANY OPERATING UNDER CHAPTER 11 BANKRUPTCY. CENTURY PARK

SPILL:

Year of Database:	7/27/2000 0:00:00	Case Number:	200005536
Who Took Spill:	203	Assigned To:	0
Report Date:	7/27/2000 0:00:00	Report Time:	12/30/1899 21:52:00
Date Release:	7/27/2000 0:00:00	Time Responded:	12/30/1899 21:52:00
Reported By:	dan valletta	Phone:	Not reported
Representing:	Self		
Terminated:	YES	Recovd (Total):	0.00
Total (Water):	0.00	Facility Status:	closed
Date Responded:	Not reported	Time Responded:	Not reported

Who Assigned Spill:	Not reported
Continuous Spill:	No
Released Substance:	UNKNOWN
Qty:	0.00 (Gallons)
Emergency Measure:	unknown qty.
Water Body:	Not reported
Discharger:	Not reported
Telephone:	Not reported
Discharger Addr:	Not reported
Dicharger City,St,Zip:	Not reported
Responsible Party:	Not reported
RP Address 1:	Not reported
RP City,St,Zip:	CT
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Address:	Not reported

CENTURY BRASS (Continued) **S100997044**

Property Owner 1 City,ST,Zip: Not reported

Historic:	No	Waterbody:	0
Qty Rec Water:	Not reported	Waterway:	Not reported
OPA:	Not reported	EPA:	Not reported
EPA Time:	Not reported	EPA Date:	Not reported
EPA Contact:	Not reported		
USCG Contact:	Not reported	USCG:	Not reported
USCG Time:	Not reported	USCG Date:	Not reported
Spill Fund:	Not reported	Authorized By:	Not reported
Date Authorized:	Not reported	Time Authorized:	Not reported
OCSRD Rep:	Not reported	Accepted By:	Not reported
Time Authorized:	Not reported	Date Accepted:	Not reported
Transportation:	Not reported	Make:	Not reported
Registration:	Not reported	Tractor No:	Not reported
Trailer Registrtn:	Not reported		
Vehicle Operator:	Not reported	License No:	Not reported
Vehicle Owner:	Not reported	Owner Phone:	Not reported
Special Contact:	Not reported	Contractor Retained:	Not reported
Time Requested:	Not reported	Date Requested:	Not reported
Date Arrived:	Not reported	Time Arrived:	Not reported
Time Stamp:	8/10/2000 11:23:57		
Sr Inspector:	Stevenson, Ray	At Inspctor:	**NO RESPONSE
Sign 1:	Not reported	Sign 2:	Not reported
Sign 3:	Not reported	Sign 4:	Not reported
Sign 5:	Not reported	Sign 6:	Not reported
Sign 7:	Not reported	User Stamp:	Not reported
Action ID:	8		
Action:	Sanded		
Other Action:	Not reported		
Agency ID:	8		
Agency:	DEP Dispatch		
Other Agency:	Not reported		
DEP Bureau:	Not reported		
DEP Agency:	Not reported		
Cause ID:	16		
Cause:	Dumping		
Other Cause:	Not reported		
Media ID:	4		
Media:	Ground Surface		
Other Media:	Not reported		
Class ID:	8		
Class:	Commercial		
Other Class:	Not reported		
Release ID:	8		
Release Type:	other		
Other Release:	unknown		
Waterbody ID:	6		
Waterbody:	Catch Basin		
Other Wtrbody:	Not reported		

CT Property:

Seller Name:	GGP-Brass Mill, Inc.
Buyer Name:	Lechmere, Inc.
Certifying Party:	GGP-Brass Mill, Inc.
Certifying Attention Person:	Not reported
Title Of Certifying Person:	Not reported
Certifying Person Address:	Not reported

CENTURY BRASS (Continued) **S100997044**

Certifying Person City,St,Zip: Not reported
Property Transfer Forms: IVD
Date Recieved: 11/27/1996
Ackn Date: 2/28/1997
Determination Date: 3/19/1997
LEP Verified/DEP Approval Date: Not reported
Date Data Updated: 5/19/2006

Seller Name: GGP-Brass Mill, Inc.
Buyer Name: J.C. Penney
Certifying Party: GGP-Brass Mill, Inc.
Certifying Attention Person: Not reported
Title Of Certifying Person: Not reported
Certifying Person Address: Not reported
Certifying Person City,St,Zip: Not reported
Property Transfer Forms: IVD
Date Recieved: 12/27/1996
Ackn Date: 2/28/1997
Determination Date: 3/19/1997
LEP Verified/DEP Approval Date: Not reported
Date Data Updated: 5/19/2006

Seller Name: GGP-Brass Mill, Inc.
Buyer Name: City of Waterbury
Certifying Party: GGP-Brass Mill, Inc./Robert Michaels
Certifying Attention Person: Not reported
Title Of Certifying Person: Not reported
Certifying Person Address: Not reported
Certifying Person City,St,Zip: Not reported
Property Transfer Forms: IVD
Date Recieved: 12/10/1998
Ackn Date: 12/24/1998
Determination Date: 2/10/1999
LEP Verified/DEP Approval Date: Not reported
Date Data Updated: 5/19/2006

Seller Name: GGP-Brass Mill, Inc.
Buyer Name: State of Connecticut
Certifying Party: GGP-Brass Mll, Inc./Robert Michaels
Certifying Attention Person: Not reported
Title Of Certifying Person: Not reported
Certifying Person Address: Not reported
Certifying Person City,St,Zip: Not reported
Property Transfer Forms: IVD
Date Recieved: 12/10/1998
Ackn Date: 12/24/1998
Determination Date: 2/10/1999
LEP Verified/DEP Approval Date: Not reported
Date Data Updated: 5/19/2006

Seller Name: GGP-Brass Mill, Inc.
Buyer Name: Sears, roebuck and Co.
Certifying Party: GGP-Brass Mill, Inc.
Certifying Attention Person: Not reported
Title Of Certifying Person: Not reported
Certifying Person Address: Not reported
Certifying Person City,St,Zip: Not reported

CENTURY BRASS (Continued) **S100997044**

Property Transfer Forms:	IVD
Date Recieved:	1/22/1999
Ackn Date:	2/9/1999
Determination Date:	Not reported
LEP Verified/DEP Approval Date:	Not reported
Date Data Updated:	5/19/2006

Seller Name:	GGP-Brass Mill, Inc.
Buyer Name:	The May Department Stores Co.
Certifying Party:	GGP-Brass Mill, Inc.
Certifying Attention Person:	Not reported
Title Of Certifying Person:	Not reported
Certifying Person Address:	Not reported
Certifying Person City,St,Zip:	Not reported
Property Transfer Forms:	IVD
Date Recieved:	1/22/1999
Ackn Date:	2/9/1999
Determination Date:	Not reported
LEP Verified/DEP Approval Date:	Not reported
Date Data Updated:	5/19/2006

Facility ID:	490
Rem ID:	Not reported
PTP Id:	Not reported
WPC Number:	Not reported
Postal District:	Not reported
Latitude:	41.5481
Longitude:	-73.0258
Lat/Long Determined By:	Not reported
Ground Water Quality Classification:	Not reported
Surface Water Quality Classification:	Not reported
Waste Type:	MOH SLUDGE
Disposal:	WASTE PILE
Sample Data Available:	No
Updated By:	Not reported
Update Program:	Not reported
Updated:	Not reported
Duplicate:	No
EPA CERCLIS Id:	Not reported
Number EPA RCRIS Id:	Not reported
Site on EPA's CERCLIS:	Yes
Site Archived from CERCLIS:	No
Archive Date:	Not reported
EPA's Removal at Site:	No
Deferred to another EPA Program:	Yes
EPA Env Priority Initiative Site:	No
Federal Facility:	No
Site on EPA's National Priority List:	No
Part of an NPL site:	No
RCRA Generator Status:	Not reported
RCRA Permit Status:	Not reported
Referral Id:	481
Source of referral:	RCRA
Date Received:	7/6/1987
Staff Assigned:	DEP
Remediation Program:	SUPERFUND
Date assigned:	7/6/1987

CENTURY BRASS (Continued) **S100997044**

Remediation Complete Approved DEP/Verified by LEP: 7/6/1987
Outcome: INVENTORY
Remedial Id: 466
PTP Id: 2025
Remediation Program: IVD
Remediation Program Entered: Not reported
Staff Assigned: PARKS, C.
Remediation Program: PTP
Date assigned: Not reported
Project Phase: DR
Order issued: No
Order Number: Not reported
Date order issued: Not reported
Remedial Investigation Start: Not reported
Remedial Investigation Completed: Not reported
Remedial Design Start: Not reported
Remedial Design complet: Not reported
Remedial Action Start: Not reported
Remedial Action Completed: Not reported
Date Oper/ maintenance Started: Not reported
GW monitoring: No
Remediation complete Approved DEP/Verified by LEP: Not reported
Remedial Id: 467
PTP Id: 2026
Remediation Program: IVD
Remediation Program Entered: Not reported
Staff Assigned: PARKS, C.
Remediation Program: PTP
Date assigned: Not reported
Project Phase: DR
Order issued: No
Order Number: Not reported
Date order issued: Not reported
Remedial Investigation Start: Not reported
Remedial Investigation Completed: Not reported
Remedial Design Start: Not reported
Remedial Design complet: Not reported
Remedial Action Start: Not reported
Remedial Action Completed: Not reported
Date Oper/ maintenance Started: Not reported
GW monitoring: No
Remediation complete Approved DEP/Verified by LEP: Not reported
Remedial Id: 468
PTP Id: 2027
Remediation Program: III
Remediation Program Entered: Not reported
Staff Assigned: PARKS, C.
Remediation Program: PTP
Date assigned: Not reported
Project Phase: C-IV
Order issued: No
Order Number: Not reported
Date order issued: Not reported
Remedial Investigation Start: Not reported
Remedial Investigation Completed: Not reported
Remedial Design Start: Not reported
Remedial Design complet: Not reported

CENTURY BRASS (Continued) **S100997044**

Remedial Action Start: Not reported
Remedial Action Completed: Not reported
Date Oper/ maintenance Started: Not reported
GW monitoring: No
Remediation complete Approved DEP/Verified by LEP: Not reported
Remedial Id: 469
PTP Id: 2028
Remediation Program: IVD
Remediation Program Entered: Not reported
Staff Assigned: PARKS, C.
Remediation Program: PTP
Date assigned: Not reported
Project Phase: DR
Order issued: No
Order Number: Not reported
Date order issued: Not reported
Remedial Investigation Start: Not reported
Remedial Investigation Completed: Not reported
Remedial Design Start: Not reported
Remedial Design complet: Not reported
Remedial Action Start: Not reported
Remedial Action Completed: Not reported
Date Oper/ maintenance Started: Not reported
GW monitoring: No
Remediation complete Approved DEP/Verified by LEP: Not reported
Remedial Id: 470
PTP Id: 2029
Remediation Program: IVD
Remediation Program Entered: Not reported
Staff Assigned: PARKS, C.
Remediation Program: PTP
Date assigned: Not reported
Project Phase: DR
Order issued: No
Order Number: Not reported
Date order issued: Not reported
Remedial Investigation Start: Not reported
Remedial Investigation Completed: Not reported
Remedial Design Start: Not reported
Remedial Design complet: Not reported
Remedial Action Start: Not reported
Remedial Action Completed: Not reported
Date Oper/ maintenance Started: Not reported
GW monitoring: No
Remediation complete Approved DEP/Verified by LEP: Not reported
Remedial Id: 471
PTP Id: 2030
Remediation Program: IVD
Remediation Program Entered: Not reported
Staff Assigned: PARKS, C.
Remediation Program: PTP
Date assigned: Not reported
Project Phase: DR
Order issued: No
Order Number: Not reported
Date order issued: Not reported
Remedial Investigation Start: Not reported

CENTURY BRASS (Continued) **S100997044**

Remedial Investigation Completed: Not reported
Remedial Design Start: Not reported
Remedial Design complet: Not reported
Remedial Action Start: Not reported
Remedial Action Completed: Not reported
Date Oper/ maintenance Started: Not reported
GW monitoring: No
Remediation complete Approved DEP/Verified by LEP: Not reported
Remedial Id: 472
PTP Id: 2031
Remediation Program: PTP
Remediation Program Entered: Not reported
Staff Assigned: PARKS, C.
Remediation Program: PTP
Date assigned: Not reported
Project Phase: D
Order issued: No
Order Number: Not reported
Date order issued: Not reported
Remedial Investigation Start: Not reported
Remedial Investigation Completed: Not reported
Remedial Design Start: Not reported
Remedial Design complet: Not reported
Remedial Action Start: Not reported
Remedial Action Completed: Not reported
Date Oper/ maintenance Started: Not reported
GW monitoring: No
Remediation complete Approved DEP/Verified by LEP: Not reported
Remedial Id: 473
PTP Id: 2032
Remediation Program: IVD
Remediation Program Entered: Not reported
Staff Assigned: PARKS, C.
Remediation Program: PTP
Date assigned: Not reported
Project Phase: DR
Order issued: No
Order Number: Not reported
Date order issued: Not reported
Remedial Investigation Start: Not reported
Remedial Investigation Completed: Not reported
Remedial Design Start: Not reported
Remedial Design complet: Not reported
Remedial Action Start: Not reported
Remedial Action Completed: Not reported
Date Oper/ maintenance Started: Not reported
GW monitoring: No
Remediation complete Approved DEP/Verified by LEP: Not reported
Remedial Id: 552
PTP Id: 2765
Remediation Program: IVD
Remediation Program Entered: Not reported
Staff Assigned: PARKS, C.
Remediation Program: PTP
Date assigned: Not reported
Project Phase: DR
Order issued: No

CENTURY BRASS (Continued) **S100997044**

Order Number: Not reported
Date order issued: Not reported
Remedial Investigation Start: Not reported
Remedial Investigation Completed: Not reported
Remedial Design Start: Not reported
Remedial Design complet: Not reported
Remedial Action Start: Not reported
Remedial Action Completed: Not reported
Date Oper/ maintenance Started: Not reported
GW monitoring: No
Remediation complete Approved DEP/Verified by LEP: Not reported
Remedial Id: 553
PTP Id: 2766
Remediation Program: IVD
Remediation Program Entered: Not reported
Staff Assigned: PARKS, C.
Remediation Program: PTP
Date assigned: Not reported
Project Phase: DR
Order issued: No
Order Number: Not reported
Date order issued: Not reported
Remedial Investigation Start: Not reported
Remedial Investigation Completed: Not reported
Remedial Design Start: Not reported
Remedial Design complet: Not reported
Remedial Action Start: Not reported
Remedial Action Completed: Not reported
Date Oper/ maintenance Started: Not reported
GW monitoring: No
Remediation complete Approved DEP/Verified by LEP: Not reported
Remedial Id: 67
PTP Id: 0
Remediation Program: USP
Remediation Program Entered: Not reported
Staff Assigned: PARKS, C.
Remediation Program: USP
Date assigned: Not reported
Project Phase: GWM
Order issued: No
Order Number: Not reported
Date order issued: Not reported
Remedial Investigation Start: Not reported
Remedial Investigation Completed: Not reported
Remedial Design Start: Not reported
Remedial Design complet: Not reported
Remedial Action Start: Not reported
Remedial Action Completed: Not reported
Date Oper/ maintenance Started: Not reported
GW monitoring: No
Remediation complete Approved DEP/Verified by LEP: Not reported
Remedial Id: 581
PTP Id: 3039
Remediation Program: IVD
Remediation Program Entered: Not reported
Staff Assigned: PARKS, C.
Remediation Program: PTP

CENTURY BRASS (Continued) **S100997044**

Date assigned: Not reported
Project Phase: D
Order issued: No
Order Number: Not reported
Date order issued: Not reported
Remedial Investigation Start: Not reported
Remedial Investigation Completed: Not reported
Remedial Design Start: Not reported
Remedial Design complet: Not reported
Remedial Action Start: Not reported
Remedial Action Completed: Not reported
Date Oper/ maintenance Started: Not reported
GW monitoring: No
Remediation complete Approved DEP/Verified by LEP: Not reported
Remedial Id: 582
PTP Id: 3040
Remediation Program: IVD
Remediation Program Entered: Not reported
Staff Assigned: PARKS, C.
Remediation Program: PTP
Date assigned: Not reported
Project Phase: D
Order issued: No
Order Number: Not reported
Date order issued: Not reported
Remedial Investigation Start: Not reported
Remedial Investigation Completed: Not reported
Remedial Design Start: Not reported
Remedial Design complet: Not reported
Remedial Action Start: Not reported
Remedial Action Completed: Not reported
Date Oper/ maintenance Started: Not reported
GW monitoring: No
Remediation complete Approved DEP/Verified by LEP: Not reported
Remedial Id: 591
PTP Id: 3072
Remediation Program: IVD
Remediation Program Entered: Not reported
Staff Assigned: PARKS, C.
Remediation Program: PTP
Date assigned: Not reported
Project Phase: DR
Order issued: No
Order Number: Not reported
Date order issued: Not reported
Remedial Investigation Start: Not reported
Remedial Investigation Completed: Not reported
Remedial Design Start: Not reported
Remedial Design complet: Not reported
Remedial Action Start: Not reported
Remedial Action Completed: Not reported
Date Oper/ maintenance Started: Not reported
GW monitoring: No
Remediation complete Approved DEP/Verified by LEP: Not reported
Remedial Id: 592
PTP Id: 3073
Remediation Program: IVD

CENTURY BRASS (Continued) **S100997044**

Remediation Program Entered:	Not reported
Staff Assigned:	PARKS, C.
Remediation Program:	PTP
Date assigned:	Not reported
Project Phase:	DR
Order issued:	No
Order Number:	Not reported
Date order issued:	Not reported
Remedial Investigation Start:	Not reported
Remedial Investigation Completed:	Not reported
Remedial Design Start:	Not reported
Remedial Design complet:	Not reported
Remedial Action Start:	Not reported
Remedial Action Completed:	Not reported
Date Oper/ maintenance Started:	Not reported
GW monitoring:	No
Remediation complete Approved DEP/Verified by LEP:	Not reported
Order Id:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Staff Assigned:	Not reported
Type of Order:	Not reported
Order Respondent:	Not reported
Admin Appeal Date:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Final Order:	Not reported
Date of Court Appeal:	Not reported
Date of Court Ruling:	Not reported
Date of Court Ruling:	Not reported
Date Order Modified:	Not reported
Date Order Revoked:	Not reported
Date Referred to AG:	Not reported
Judgement:	Not reported
Date of AGR judgement:	Not reported
Penalty assessed:	Not reported
Order Complete:	Not reported
In compliance:	Not reported
Orders Comment:	Not reported
Comments:	8-9M. LBS.LAND DISPOSAL FACILITY REGULATED UNDER RCRA. GROUNDWATER MONITORING WELLS INSTALLED. COMPANY OPERATING UNDER CHAPTER 11 BANKRUPTCY. CENTURY PARK

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36 **LWDS** **W991101938**
WNW **FAILING SEPTIC SYS** **N/A**
1/2-1 **, CT**
5211 ft.

Relative:
Lower

Actual:
318 ft.

LWDS:

ArcView Legend Symbology:	FAILSEPTIC
Leachate and Wastewater Number:	6900046
Status of the Discharge Activity:	INACTIVE
Leachate and Waste Flow:	GROUND
Feature Number on Hazardous Waste List:	0
Subregional Basin Feature Number:	6900
Name:	Not reported
Alias:	Not reported
Leachate and Wastewater Name:	FAILING SEPTIC SYS
Description:	Sewage discharge to Great Brook

(Continued) **W991101938**

Description 2:	Not reported
State Plane x:	921722
State Plane y:	762541
Longitude:	-73.03599
Latitude:	41.55353
Mercator y:	13289957.91318

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
USA COUNTY	1007886515	FRAN THOM CLEANERS	1714 E MAIN ST WATERBURY	06705	CT MANIFEST
USA COUNTY	1007930105	STROEHMANN BAKERIES, INC.	2457 EAST MAIN ST. WATERBURY	06705	CT MANIFEST
USA COUNTY	1007977862	MS PAMA MITTICA	1108 W MAIN ST. WATERBURY	06705	CT MANIFEST
USA COUNTY	1007887153	RITE-AID	141 MERIDEN RD WATERBURY	06705	CT MANIFEST
USA COUNTY	1007893587	CHUCK'S FRIENDLY STORE	550 MERIDEN RD WATERBURY	06705	CT MANIFEST
USA COUNTY	1007952814	EASTERN CYCLE PREFORMANCE	1261 MERIDEN RD. WATERBURY	06705	CT MANIFEST
USA COUNTY	1007954091	HAYDEN SWITCH & INSTRUMENTS	1500 MERIDEN RD. WATERBURY	06705	CT MANIFEST
WATERBURY	1007902577	STATE OF CT DOT	RTE 8 UNDERPASS - RIVERSIDE ST		CT MANIFEST
WATERBURY	1007943012	CT STATE OF DOT	I 84 W OVER RT 8		CT MANIFEST
WATERBURY	1007943051	CT STATE OF DOT	I 84 RT 8		CT MANIFEST
WATERBURY	1007937371	CT STATE OF DOT	I 84 W OVER RT 8 EAST OF RIVER		CT MANIFEST
WATERBURY	1007896520	ST. CECELIA CHURCH	64 CHERRY STREET		CT Spills, CT MANIFEST
WATERBURY	1009220250	BRASS CENTER LIMITED	73 HAMILTON AVENUE	06705	NY MANIFEST
WATERBURY	1007911516	EBENEZER DRY CLEANING	77 E. MAIN ST.	06705	CT MANIFEST
WATERBURY	1008985969	LAND & SEA MARINE	2974 E MAIN ST	06705	CT MANIFEST
WATERBURY	1007888518	BRASS CITY TIRE	461 EAST MAIN STREET		CT MANIFEST
WATERBURY	1007893028	PAT TISCO MOBILE	1485 EAST MAIN STREET		CT MANIFEST
WATERBURY	1007896479	PLASMA COATINGS	758 EAST MAIN STREET		CT MANIFEST
WATERBURY	1007891650	WATERBURY GLASS	2535 EAST MAIN STREET		CT MANIFEST
WATERBURY	1007895829	EXXON COMPANY, U.S.A.	1447 EAST MAIN STREET		CT MANIFEST
WATERBURY	1007940412	PRO-TECH SECURITIES	835 SO. MAIN ST.		CT MANIFEST
WATERBURY	1007936484	STANLEY W. D. CO	382 EAST MAIN ST.		CT MANIFEST
WATERBURY	1007977900	OWENS	MAIN ST.		CT MANIFEST
WATERBURY	1007897443	ROLLEN POWELL PAINT CO.	1300 S. MAIN ST		CT MANIFEST
WATERBURY	1007937908	EPAC CO	730 NORTH MAIN ST.		CT MANIFEST
WATERBURY	1007895833	EXXON CO. U.S.A.	1447 EAST MAIN STREET		CT MANIFEST
WATERBURY	1007930673	SHELL OIL	311 WEST MAIN ST		CT MANIFEST
WATERBURY	1009221137	ROBERT FARAKOS	1110 W MAIN ST		NY MANIFEST
WATERBURY	S106986425	WATERBURY ARTS & EDUCATION PROJECT	EAST MAIN STREET		VCP
WATERBURY	S104255336	MOBIL # 06-G08	7110 WEST MAIN STREET		SDADB
WATERBURY	1007918601	ALBERTO SOTELO	2714 SOUTH MAIN STREET		CT Spills, CT MANIFEST
WATERBURY	1009228169	LANDEEN TRANSPORT CO	1261 MERIDEN RD	06705	NY MANIFEST
WATERBURY	1007942869	CT STATE OF DOT	OVER PORTER ST		CT MANIFEST
WATERBURY	S104563574	JIFFY LAUNDROMAT	WOLCOTT STREET		SDADB

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/19/2006
Date Data Arrived at EDR: 05/05/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 17

Source: EPA
Telephone: N/A
Last EDR Contact: 08/02/2006
Next Scheduled EDR Contact: 10/30/2006
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

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: 08/02/2006
Next Scheduled EDR Contact: 10/30/2006
Data Release Frequency: Quarterly

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/19/2006
Date Data Arrived at EDR: 05/05/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 17

Source: EPA
Telephone: N/A
Last EDR Contact: 08/02/2006
Next Scheduled EDR Contact: 10/30/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
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: 06/19/2006
Date Data Arrived at EDR: 06/22/2006
Date Made Active in Reports: 08/23/2006
Number of Days to Update: 62

Source: EPA
Telephone: 703-413-0223
Last EDR Contact: 06/22/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 02/01/2006
Date Data Arrived at EDR: 03/21/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 23

Source: EPA
Telephone: 703-413-0223
Last EDR Contact: 06/23/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/15/2006
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
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: 06/13/2006
Date Data Arrived at EDR: 06/28/2006
Date Made Active in Reports: 08/23/2006
Number of Days to Update: 56

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 08/22/2006
Next Scheduled EDR Contact: 11/20/2006
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: 07/25/2006
Next Scheduled EDR Contact: 10/23/2006
Data Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 07/03/2006
Date Data Arrived at EDR: 07/19/2006
Date Made Active in Reports: 08/23/2006
Number of Days to Update: 35

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 07/19/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: Annually

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/21/2006
Date Data Arrived at EDR: 03/27/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 703-603-8905
Last EDR Contact: 09/07/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/21/2006
Date Data Arrived at EDR: 03/27/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 703-603-8905
Last EDR Contact: 09/07/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/08/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 177

Source: USGS
Telephone: 703-692-8801
Last EDR Contact: 08/11/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 01/19/2006
Date Made Active in Reports: 02/21/2006
Number of Days to Update: 33

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Varies

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 07/10/2006
Date Data Arrived at EDR: 07/13/2006
Date Made Active in Reports: 09/06/2006
Number of Days to Update: 55

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 12/11/2006
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: 07/24/2006
Next Scheduled EDR Contact: 10/23/2006
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: 07/10/2006
Date Data Arrived at EDR: 07/21/2006
Date Made Active in Reports: 09/06/2006
Number of Days to Update: 47

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: 09/05/2006
Next Scheduled EDR Contact: 12/18/2006
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

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 07/20/2006
Date Data Arrived at EDR: 07/21/2006
Date Made Active in Reports: 08/22/2006
Number of Days to Update: 32

Source: EPA
Telephone: 202-564-6064
Last EDR Contact: 07/06/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Quarterly

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: 12/31/2004
Date Data Arrived at EDR: 06/22/2006
Date Made Active in Reports: 08/23/2006
Number of Days to Update: 62

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 06/22/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 46

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/16/2006
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: 07/14/2006
Date Data Arrived at EDR: 07/18/2006
Date Made Active in Reports: 09/06/2006
Number of Days to Update: 50

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 06/19/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Date of Government Version: 07/14/2006
Date Data Arrived at EDR: 07/18/2006
Date Made Active in Reports: 09/06/2006
Number of Days to Update: 50

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 06/19/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Quarterly

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 05/11/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 11

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/16/2006
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: 07/17/2006
Next Scheduled EDR Contact: 10/16/2006
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: 07/07/2006
Date Data Arrived at EDR: 08/09/2006
Date Made Active in Reports: 09/06/2006
Number of Days to Update: 28

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 08/09/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/10/2006
Date Data Arrived at EDR: 07/20/2006
Date Made Active in Reports: 09/06/2006
Number of Days to Update: 48

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Quarterly

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/16/2006
Date Data Arrived at EDR: 06/28/2006
Date Made Active in Reports: 08/23/2006
Number of Days to Update: 56

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 06/28/2006
Next Scheduled EDR Contact: 09/25/2006
Data Release Frequency: Semi-Annually

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/21/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 09/06/2006
Number of Days to Update: 43

Source: EPA
Telephone: N/A
Last EDR Contact: 04/03/2006
Next Scheduled EDR Contact: 07/03/2006
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
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: 07/21/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Biennially

STATE AND LOCAL RECORDS

SHWS: Inventory of Hazardous Disposal Sites

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 05/19/2006
Date Data Arrived at EDR: 05/19/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: 860-424-3721
Last EDR Contact: 07/31/2006
Next Scheduled EDR Contact: 10/30/2006
Data Release Frequency: Varies

SDADB: Site Discovery and Assessment Database

All sites reported to Permitting, Enforcement, and Remediation Division where it is suspected that hazardous waste may have been disposed or sites that are eligible for listing on the State Inventory of Hazardous Waste Disposal Sites.

Date of Government Version: 05/19/2006
Date Data Arrived at EDR: 05/19/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: 860-424-3721
Last EDR Contact: 07/31/2006
Next Scheduled EDR Contact: 10/30/2006
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SWF/LF: List of Landfills/Transfer Stations
Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 04/03/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 19

Source: Department of Environmental Protection
Telephone: 860-424-3366
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Annually

SWRCY: Recycling Facilities
A listing of recycling facilities.

Date of Government Version: 04/03/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 19

Source: Department of Environmental Protection
Telephone: 860-424-3223
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

LUST: Leaking Underground Storage Tank List
Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 05/23/2006
Date Data Arrived at EDR: 05/25/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 34

Source: Department of Environmental Protection
Telephone: 860-424-3376
Last EDR Contact: 07/31/2006
Next Scheduled EDR Contact: 10/30/2006
Data Release Frequency: Semi-Annually

LWDS: Connecticut Leachate and Wastewater Discharge Sites
The Leachate and Waste Water Discharge Inventory Data Layer (LWDS) includes point locations digitized from Leachate and Wastewater Discharge Source maps compiled by the Connecticut DEP. These maps locate surface and groundwater discharges that (1) have received a waste water discharge permit from the state or (2) are historic and now defunct waste sites or (3) are locations of accidental spills, leaks, or discharges of a variety of liquid or solid wastes.

Date of Government Version: 09/22/1999
Date Data Arrived at EDR: 11/15/1999
Date Made Active in Reports: 12/09/1999
Number of Days to Update: 24

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 08/08/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Varies

UST: Underground Storage Tank Data
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 07/17/2006
Date Data Arrived at EDR: 07/18/2006
Date Made Active in Reports: 08/18/2006
Number of Days to Update: 31

Source: Department of Environmental Protection
Telephone: 860-424-3376
Last EDR Contact: 07/10/2006
Next Scheduled EDR Contact: 09/25/2006
Data Release Frequency: Semi-Annually

AST: Marine Terminals and Tank Information
A listing of bulk petroleum facilities that receive petroleum by a vessel.

Date of Government Version: 10/28/2004
Date Data Arrived at EDR: 10/28/2004
Date Made Active in Reports: 12/09/2004
Number of Days to Update: 42

Source: Department of Environmental Protection
Telephone: 860-424-3233
Last EDR Contact: 07/19/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/17/2006
Date Made Active in Reports: 04/07/2006
Number of Days to Update: 49

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Annually

SPILLS: Oil & Chemical Spill Database
Oil and Chemical Spill Data.

Date of Government Version: 05/17/2006
Date Data Arrived at EDR: 05/22/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 37

Source: Department of Environmental Protection
Telephone: 860-424-3024
Last EDR Contact: 07/31/2006
Next Scheduled EDR Contact: 10/30/2006
Data Release Frequency: Semi-Annually

AUL: ELUR Sites
Environmental Land Use Restriction sites.

Date of Government Version: 06/26/2006
Date Data Arrived at EDR: 06/28/2006
Date Made Active in Reports: 08/07/2006
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: 860-424-3912
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Varies

VCP: Voluntary Remediation Sites
Sites involved in the Voluntary Remediation Program.

Date of Government Version: 05/19/2006
Date Data Arrived at EDR: 05/19/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: 860-424-3705
Last EDR Contact: 07/31/2006
Next Scheduled EDR Contact: 10/30/2006
Data Release Frequency: Varies

DRYCLEANERS: Drycleaner Facilities
A listing of drycleaner facility locations.

Date of Government Version: 01/18/2006
Date Data Arrived at EDR: 02/10/2006
Date Made Active in Reports: 03/14/2006
Number of Days to Update: 32

Source: Department of Environmental Protection
Telephone: 860-424-3026
Last EDR Contact: 08/03/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Varies

BROWNFIELDS: Brownfields Inventory

Date of Government Version: 07/18/2006
Date Data Arrived at EDR: 07/19/2006
Date Made Active in Reports: 08/07/2006
Number of Days to Update: 19

Source: Connecticut Brownfields Redevelopment Authority
Telephone: 860-258-7833
Last EDR Contact: 07/19/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: Varies

ENFORCEMENT: Enforcement Case Listing
The types of enforcement actions included are administrative consent orders, final unilateral orders and final dispositions of civil cases through the Attorney General's Office.

Date of Government Version: 04/30/2006
Date Data Arrived at EDR: 06/01/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 27

Source: Department of Environmental Protection
Telephone: 860-424-3265
Last EDR Contact: 08/28/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Varies

CT PROPERTY: Property Transfer Filings
A listing of sites that meet the definition of a hazardous waste establishment. They can be generators, dry cleaners, furniture strippers, etc. These sites have been sold to another owner.

Date of Government Version: 05/19/2006
Date Data Arrived at EDR: 05/19/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: 860-424-3789
Last EDR Contact: 07/31/2006
Next Scheduled EDR Contact: 10/30/2006
Data Release Frequency: Semi-Annually

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: 08/11/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 19

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 01/04/2005
Date Data Arrived at EDR: 01/21/2005
Date Made Active in Reports: 02/28/2005
Number of Days to Update: 38

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 06/06/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 06/23/2006
Date Made Active in Reports: 08/02/2006
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land

Date of Government Version: 12/02/2004
Date Data Arrived at EDR: 12/29/2004
Date Made Active in Reports: 02/04/2005
Number of Days to Update: 37

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

Date of Government Version: 06/06/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land
A listing of underground storage tank locations on Indian Land.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/30/2006
Number of Days to Update: 21

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

Date of Government Version: 06/30/2006
Date Data Arrived at EDR: 07/03/2006
Date Made Active in Reports: 09/06/2006
Number of Days to Update: 65

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Semi-Annually

INDIAN UST R9: Underground Storage Tanks on Indian Land

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 06/23/2006
Date Made Active in Reports: 08/02/2006
Number of Days to Update: 40

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

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

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.

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 07/06/2006
Date Made Active in Reports: 08/01/2006
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/05/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 05/02/2006
Date Data Arrived at EDR: 05/31/2006
Date Made Active in Reports: 06/27/2006
Number of Days to Update: 27

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/30/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 05/04/2006
Date Made Active in Reports: 06/06/2006
Number of Days to Update: 33

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 09/30/2005
Date Data Arrived at EDR: 05/09/2006
Date Made Active in Reports: 05/24/2006
Number of Days to Update: 15

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 06/19/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 06/29/2006
Date Made Active in Reports: 07/31/2006
Number of Days to Update: 32

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 08/15/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 46

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 07/25/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: PennWell Corporation
Telephone: (800) 823-6277
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Child Care Facilities
Source: Department of Public Health
Telephone: 860-509-8045

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: Wetland Soils
Source: Department of Environmental Protection
Telephone: 860-871-4047

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

PAUL J. SUTCOVOY USARC, CT
LYDIA STREET EXTENSION
WATERBURY, CT 06705

TARGET PROPERTY COORDINATES

Latitude (North):	41.54930 - 41˚ 32' 57.5''
Longitude (West):	73.0178 - 73˚ 1' 4.1''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	665322.9
UTM Y (Meters):	4601422.0
Elevation:	441 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	41073-E1 WATERBURY, CT
Most Recent Revision:	1984
East Map:	41072-E8 SOUTHINGTON, CT
Most Recent Revision:	1984

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

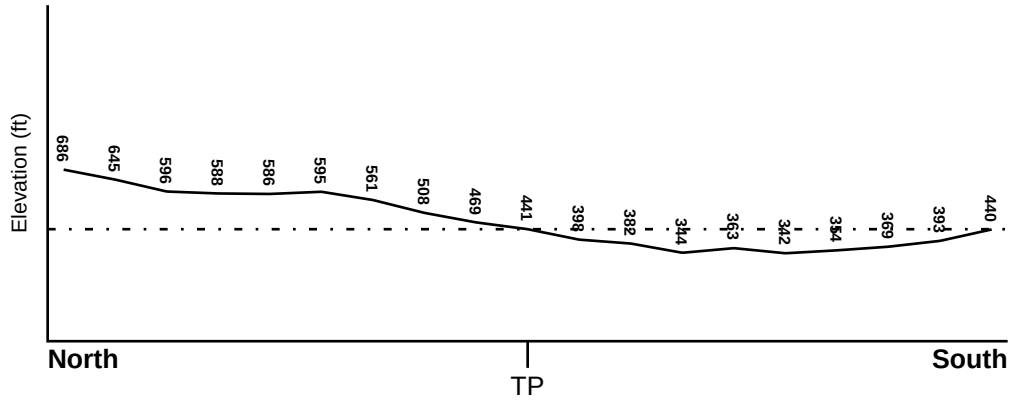
TOPOGRAPHIC INFORMATION

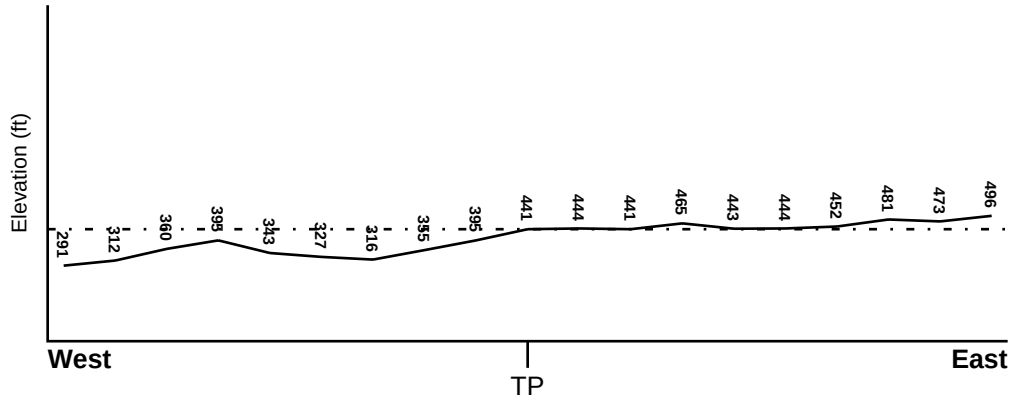
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 441 ft.

0 1/2 1 Miles

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
NEW HAVEN, CT	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 0900910008B

Additional Panels in search area: 0900910011B

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
WATERBURY	Not Available

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Location Relative to TP:	1 - 2 Miles West
Site Name:	ANAMET, INC.
Site EPA ID Number:	CTD067072355
Groundwater Flow Direction:	E TOWARD THE NAUGATUCK RIVER AND S TOWARD THE MAD RIVER.
Measured Depth to Water:	15 to 20 feet.
Hydraulic Connection:	Detailed hydraulic connection information is not available. The depth to bedrock at the site is approximately 35 feet and ground water at the site is classified as GB by the Connecticut DEP.
Sole Source Aquifer:	No information about a sole source aquifer is available
Data Quality:	Information based on site-specific subsurface investigations is documented in the CERCLIS investigation report(s)

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site–specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Paleozoic
System:	Ordovician
Series:	Ordovician
Code:	Oe *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Eugeosynclinal Deposits

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:	URBAN LAND
Soil Surface Texture:	variable
Hydrologic Group:	Not reported
Soil Drainage Class:	Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	Not Reported
Depth to Bedrock Min:	> 10 inches
Depth to Bedrock Max:	> 10 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: fine sandy loam
loamy sand
sandy loam
very stony - fine sandy loam
loam

Surficial Soil Types: fine sandy loam
loamy sand
sandy loam
very stony - fine sandy loam
loam

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: sand
fine sandy loam
stratified
gravelly - fine sandy loam
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	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	USGS2123200	1/4 - 1/2 Mile SSW
A2	USGS2123194	1/4 - 1/2 Mile SSW
A3	USGS2123195	1/4 - 1/2 Mile SSW
4	USGS2123248	1/4 - 1/2 Mile WNW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

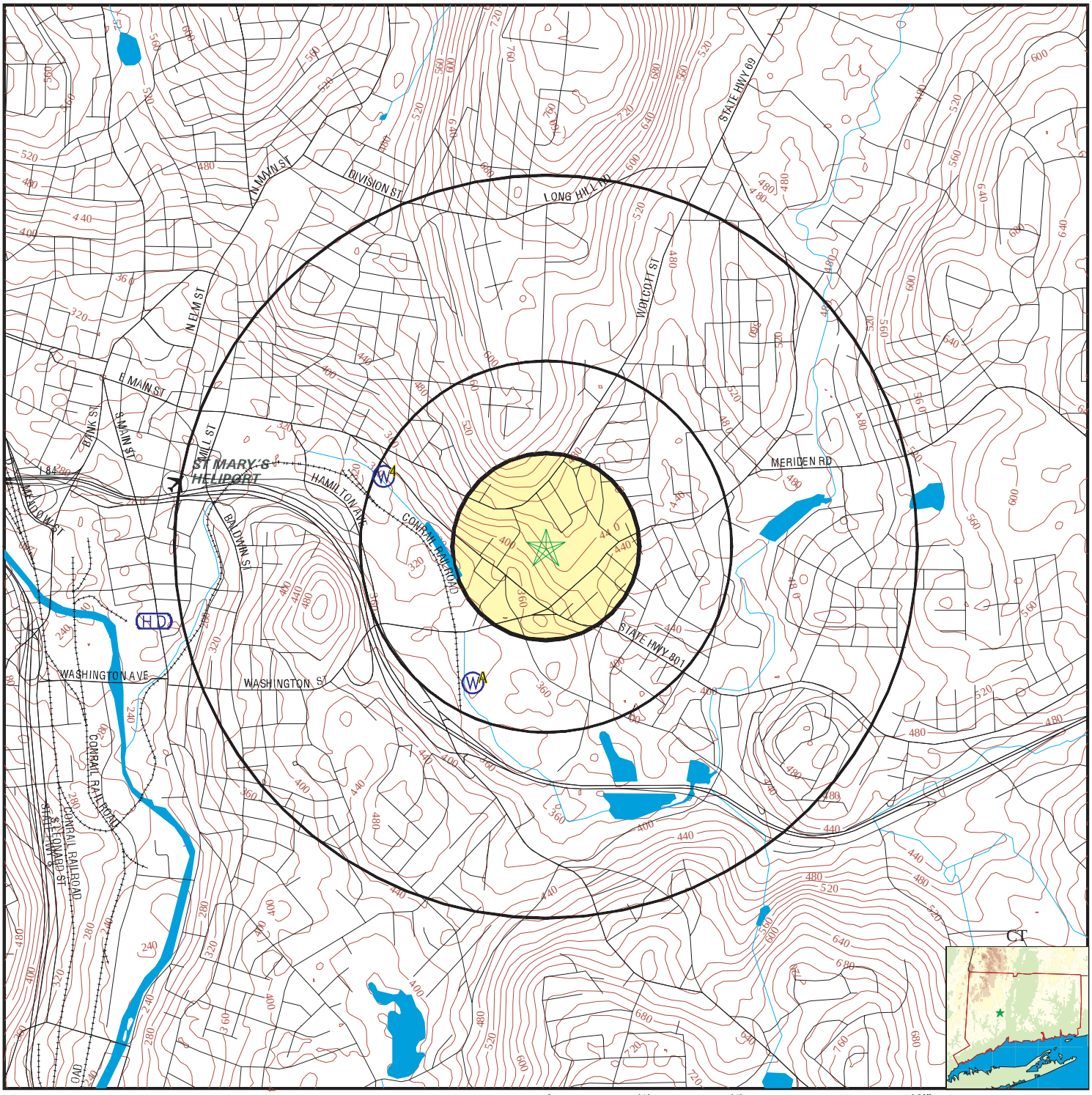
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 1752414.1s



0 1/4 1/2 1 Miles

- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- EPA Designated Sole Src. Aq.

SITE NAME: Paul J. Sutcovoy USARC, CT	CLIENT: CH2M Hill
ADDRESS: Lydia Street Extension Waterbury CT 06705	CONTACT: Mary Beth Jacques INQUIRY #: 1752414.1s
LAT/LONG: 41.5493 / 73.0178	DATE: September 11, 2006 4:17 pm

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Map ID Direction Distance Elevation	Database	EDR ID Number
A1 **SSW** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS2123200**

Agency cd:	USGS	Site no:	413240073012001
Site name:	CT-WB 391		
Latitude:	413240		
Longitude:	0730120	Dec lat:	41.54454139
Dec lon:	-73.0217733	Coor meth:	M
Coor accr:	U	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	09
State:	09	County:	009
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	332	Altitude method:	U
Altitude accuracy:	Not Reported	Altitude datum:	NGVD29
Hydrologic:	Housatonic. Connecticut, Massachusetts, New York. Area = 1930 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:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	DRIFT,STRATIFIED		
Well depth:	34	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:	1978-08-15
Water quality data end date:	1978-08-15	Water quality data count:	1
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

A2 **SSW** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS2123194**

Agency cd:	USGS	Site no:	413237073011801
Site name:	CT-WB 390		
Latitude:	413237		
Longitude:	0730118	Dec lat:	41.54370806
Dec lon:	-73.02121778	Coor meth:	M
Coor accr:	U	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	09
State:	09	County:	009
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	340	Altitude method:	U
Altitude accuracy:	Not Reported	Altitude datum:	NGVD29
Hydrologic:	Housatonic. Connecticut, Massachusetts, New York. Area = 1930 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:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	DRIFT,STRATIFIED		
Well depth:	10	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:	1978-08-15
Water quality data end date:	1978-08-15	Water quality data count:	1
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

A3
SSW **FED USGS** **USGS2123195**
1/4 - 1/2 Mile
Lower

Agency cd:	USGS	Site no:	413237073012001
Site name:	CT-WB 392		
Latitude:	413237		
Longitude:	0730120	Dec lat:	41.54370806
Dec lon:	-73.0217733	Coor meth:	M
Coor accr:	U	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	09
State:	09	County:	009
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	335	Altitude method:	U
Altitude accuracy:	Not Reported	Altitude datum:	NGVD29
Hydrologic:	Housatonic. Connecticut, Massachusetts, New York. Area = 1930 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:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	DRIFT,STRATIFIED		
Well depth:	21	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:	1978-08-15
Water quality data end date:	1978-08-15	Water quality data count:	1
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

4
WNW **FED USGS** **USGS2123248**
1/4 - 1/2 Mile
Lower

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	413307073013601
Site name:	CT-WB 377		
Latitude:	413307		
Longitude:	0730136	Dec lat:	41.55204139
Dec lon:	-73.02621778	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	09
State:	09	County:	009
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	310.00	Altitude method:	M
Altitude accuracy:	5.	Altitude datum:	NGVD29
Hydrologic:	Housatonic. Connecticut, Massachusetts, New York. Area = 1930 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	1942
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	DRIFT,STRATIFIED		
Well depth:	35.0	Hole depth:	Not Reported
Source of depth data:	other	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:	1954-05-13
Water quality data end date:	1954-05-13	Water quality data count:	1
Ground water data begin date:	1942-09-01	Ground water data end date:	1942-09-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CT Radon

Radon Test Results

City	Total Sites	< 4 Pci/L	4 < 10 Pci/L	10 < 20 Pci/L	20 < 50 Pci/L	50 < 100 Pci/L	> 100 Pci/L
Ansonia	110	62 (56.4)	29 (26.4)	8 (7.3)	10 (1)	1 (9)	0 (0)
Beacon Falls	4	3 (75)	1 (25)	0 (0)	0 (0)	0 (0)	0 (0)
Bethany	3	2 (66.7)	1 (33.3)	0 (0)	0 (0)	0 (0)	0 (0)
Branford	196	126 (64.3)	40 (20.4)	13 (6.6)	14 (7.1)	13 (1.5)	0 (0)
Cheshire	16	10 (62.5)	4 (25)	2 (12.5)	0 (0)	0 (0)	0 (0)
Derby	11	4 (36.4)	6 (54.6)	1 (9)	0 (0)	0 (0)	0 (0)
East Haven	27	22 (81.5)	4 (14.8)	1 (3.7)	0 (0)	0 (0)	0 (0)
Guilford	138	95 (68.8)	22 (15.9)	13 (9.4)	7 (5.1)	0 (0)	1 (.7)
Hamden	39	29 (74.4)	10 (25.6)	0 (0)	0 (0)	0 (0)	0 (0)
Madison	133	84 (63.2)	32 (24)	9 (6.8)	6 (4.5)	2 (1.5)	0 (0)
Meriden	97	76 (78.4)	19 (19.6)	1 (1)	0 (0)	0 (0)	1 (1)
Middlebury	5	5 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Milford	20	15 (.75)	4 (20)	1 (5)	0 (0)	0 (0)	0 (0)
Naugatuck	9	8 (88.9)	1 (11.1)	0 (0)	0 (0)	0 (0)	0 (0)
New Haven	21	16 (76.2)	5 (23.8)	0 (0)	0 (0)	0 (0)	0 (0)
North Branford	13	11 (84.6)	2 (15.4)	0 (0)	0 (0)	0 (0)	0 (0)
North Haven	5	3 (0)	2 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Northford	7	5 (71.4)	0 (0)	1 (14.2)	0 (0)	0 (0)	1 (14.2)
Orange	16	14 (87.5)	2 (12.5)	0 (0)	0 (0)	0 (0)	0 (0)
Oxford	3	2 (0)	1 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Prospect	3	3 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Seymour	9	5 (55.6)	3 (33.3)	1 (11.1)	0 (0)	0 (0)	0 (0)
Southbury	21	10 (47.6)	8 (38.1)	3 (14.3)	0 (0)	0 (0)	0 (0)
Wallingford	100	90 (90)	10 (10)	0 (0)	0 (0)	0 (0)	0 (0)
Waterbury	20	19 (95)	1 (5)	0 (0)	0 (0)	0 (0)	0 (0)
West Haven	14	14 (93.3)	1 (6.7)	0 (0)	0 (0)	0 (0)	0 (0)
Wolcott	7	3 (42.9)	4 (57.1)	0 (0)	0 (0)	0 (0)	0 (0)
Woodbridge	126	79 (62.7)	32 (25.4)	9 (7.1)	4 (3.2)	1 (.8)	0 (0)
Yalesville	3	3 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

Federal EPA Radon Zone for NEW HAVEN County: 1

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 06705

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	2.700 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Soils
Source: Department of Environmental Protection
Telephone: 860-871-4047

HYDROGEOLOGIC INFORMATION

AQUIFLOW[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Connecticut Leachate and Wastewater Discharge Sites
Source: Department of Environmental Protection
The Leachate and Waste Water Discharge Inventory Data Layer (LWDS) includes point locations digitized from Leachate and Wastewater Discharge Source maps compiled by the Connecticut DEP. These maps locate surface and groundwater discharges that (1) have received a waste water discharge permit from the state or (2) are historic and now defunct waste sites or (3) are locations of accidental spills, leaks, or discharges of a variety of liquid or solid wastes.

EPA-Approved Sole Source Aquifers in Connecticut
Source: EPA
Sole source aquifers are defined as an aquifer designated as the sole or principal source of drinking water for a given aquifer service area; that is, an aquifer which is needed to supply 50% or more of the drinking water for the area and for which there are no reasonable alternative sources should the aquifer become contaminated.

Community and Non-Community Water System Wells
Source: Department of Public Health, Water Supplies Section
Telephone: 860-509-7333
Active, emergency and inactive wells used for potable purposes that are owned and operated by active community and non-community water systems in Connecticut.

OTHER STATE DATABASE INFORMATION

RADON

State Database: CT Radon
Source: Department of Public Health
Telephone: 860-509-7367
Radon Statistical Summary

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.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

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

STREET AND ADDRESS INFORMATION

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