

# PHASE I ENVIRONMENTAL SITE ASSESSMENT (ESA)

For

**Fox Hill Elementary School  
252 Fox Hill Road  
Burlington, Massachusetts 01803**

*Prepared for:*

*DiNisco Design, Inc.  
99 Chauncy Street  
Boston, Massachusetts 02111*

*Prepared by:*

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April 21, 2023

ECMS Project No. 1009.077

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April 21, 2023

Mr. Neil Harrigan, AIA  
DiNisco Design, Inc.  
99 Chauncy Street  
Boston, Massachusetts 02111

**Re: Phase I Environmental Site Assessment (ESA)  
Fox Hill Elementary School  
Burlington, Massachusetts 01803  
ECMS Project No. 1009.077**

Dear Mr. Harrigan:

*Environmental & Construction Management Services, Inc. (ECMS)* is pleased to submit this Phase I Environmental Site Assessment report for the above referenced property (the site). The primary purpose of this assessment was to identify recognized environmental conditions ("RECs") in connection with the subject property. Recognized environmental conditions are defined as the presence or likely presence of hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or material threat of a release into structures on the property or into the ground, groundwater, or surface water of the property. It does not include *de minimis* conditions that generally do not present a threat to human 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.

In conducting this assessment, *ECMS* followed the E1527-13 American Society for Testing and Materials (ASTM) document entitled "Standard Practices for Environmental Site Assessments: Phase I Environmental Site Assessment Process" for commercial real estate. To the best of our knowledge, this Phase I Environmental Site Assessment report is true and accurate.

Please do not hesitate to contact us at your convenience, should you have any questions or comments regarding this report or our recommendations. It has been a pleasure working with you on this project.

Sincerely,

*For Environmental & Construction Management Services, Inc. by*

Kevin J. Kavanaugh, L.S.P., CHMM  
Principal Environmental Engineer

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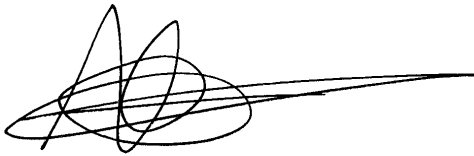
## CERTIFICATION OF RESULTS

The assessment was conducted on behalf of and for the exclusive use of *DiNisco Design, Inc.* and all its successors and assigns, solely for use in an environmental evaluation of the Site. This report and the findings contained herein shall not, in whole or in part, be disseminated or conveyed to any other party, nor used by any other party, in whole or in part, other than *DiNisco Design, Inc.* and all its successors and assigns, without the prior written consent of *Environmental & Construction Management Services, Inc. (ECMS)*.

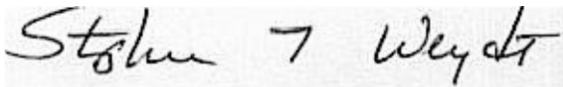
*ECMS* professional services have been performed, our findings obtained, and our recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. This warranty is in lieu of all other warranties either expressed or implied. *ECMS* is not responsible for the independent conclusions, opinions or recommendations made by others based on the records review, site inspection, field exploration, and laboratory test data presented in this report.

Respectfully submitted this 21st day of April 2023.

*For Environmental & Construction Management Services, Inc. by*



Kevin J. Kavanaugh, L.S.P., CHMM  
Principal Environmental Engineer



Stephen T. Weydt  
Principal Environmental Scientist

## EXECUTIVE SUMMARY

*Environmental & Construction Management Services, Inc. (ECMS)* has performed a Phase I Environmental Site Assessment (ESA) for the Fox Hill Elementary School at 252 Fox Hill Road in Burlington, Middlesex County, Massachusetts 01803 and identified by the Town of Burlington Assessor Office as Parcel Number 9-47-0 (herein after referred to as the Site). This assessment was performed to evaluate the likelihood of a release and/or threat of release of oil and/or hazardous materials at the Site pursuant to the Massachusetts General Law, Chapter 21E (MGL Chapter 21E) and the Massachusetts Contingency Plan (MCP), 310 CMR 40.0000.

The site assessment work described in this report was conducted for *DiNisco Design, Inc.* between March 28 and April 21, 2023 in accordance with *ECMS'* proposal number EC23-008 dated February 15, 2023.

The purpose of the investigation was to determine the potential for “environmental contamination” (e.g., petroleum products and/or hazardous materials) to exist on the Site, and the potential for such materials to migrate (or have migrated) onto the Site from nearby activities or adjacent properties. The investigation included inspection of the Site and the exterior of adjacent properties, interviews with Site staff and regulatory officials, review of appropriate Federal, State, and local historical and environmental records.

*ECMS* has performed this environmental assessment in conformance with the scope and limitations of the ASTM Standard Practice for Environmental Site Assessment: Phase I Environmental Site Assessment Process Document E-1527-013 and All Appropriate Inquiry (AAI) Final Rule (effective as of November 1, 2006).

*ECMS* has performed this environmental assessment for the Fox Hill Elementary School at 252 Fox Hill Road in Burlington, Massachusetts. Any exceptions to or deletions from, this practice are described in Section 1.3 entitled *Limitations and Exceptions of Assessment*.

### Findings

A *recognized environmental condition (REC)* refers to the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: due to release to the environment; under conditions indicative of a release to the environment; or under conditions that pose a material threat of a future release to the environment.

- *ECMS* did not identify a *REC* during the course of this assessment.

A *controlled recognized environmental condition (CREC)* refers to a *REC* resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls. The following was identified during the course of this assessment:

- *ECMS did not* identify any controlled recognized environmental conditions during the course of this assessment.

A *historical recognized environmental condition (HREC)* refers to a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls. The following was identified during the course of this assessment:

- *ECMS did not* identify any historical recognized environmental conditions during the course of this assessment.

An *environmental issue* refers to environmental concerns identified by *ECMS*, which do not qualify as RECs; however, warrant further discussion. The following was identified during the course of this assessment:

- Two underground storage tanks (USTs) were removed from the Site including one (1) 500-gallon capacity diesel fuel oil UST removed on April 23, 1997 and one (1) 8,000-gallon capacity fuel oil UST removed on July 19, 1999. Based on a review of closure documents provided by the Burlington Health Department (BHD), no residual impacts to soil remained in tank graves and no impacts to groundwater were noted during the UST removals. Based on the lack of impacts to soil or groundwater at the Site, the former USTs do not represent a REC or Vapor Encroachment Condition (VEC) for the Site.
- Based on the age of the Site building (1967) and records provided by the BHD, ACM identified at the Site includes boiler gasket material, blue and gray transite siding, 12-inch by 12-inch floor tile and mastic, wall plaster in the cafeteria, gray tank insulation, breaching insulation, and fitting insulation in the boiler room.
- Due to the age of the Site building, there is a potential that LBP are present. Overall, painted surfaces were observed in good condition.

## Conclusions, Opinions and Recommendations

*ECMS* has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 for the Fox Hill Elementary School at 252 Fox Hill Road in Burlington, Middlesex County, Massachusetts (the “subject property”). Any exceptions to, or deletions from, this practice are described in Section 1.4 of this report. This assessment has revealed no evidence of RECs in connection with the subject property; however, environmental issues in connection with the subject property were identified. Based on the conclusions of this assessment, *ECMS* recommends the following:

- *ECMS* recommends an Operations and Maintenance (O&M) Program be implemented in order to safely manage suspect LBP located at the subject property.
- *ECMS* recommends continued maintenance and inspections of ACM present in the Site building in accordance with the O&M Plan and AHERA regulations. If renovation and/or demolition are to occur at the site, *ECMS* recommends a comprehensive asbestos assessment be performed in accordance with the requirements of 310 CMR 7.15 and 454 CMR 28.
- If off-site disposal of soil is necessary, samples should be analyzed in accordance with the receiving facility's testing requirements. The number of analyses is typically dictated by the total weight or volume of the material to be disposed of, generally one sample for every 500 cubic yards is required. To date, no soil samples have been collected by *ECMS* in an effort to precharacterize site soil and are representative of the anticipated quantity to be excavated. Soil samples should be collected as necessary.

The minimum laboratory analysis of soil samples suspected of being contaminated shall be as follows in accordance with MassDEP Policy# COMM 97-001, Reuse and Disposal of Contaminated Soil at Massachusetts Landfills:

- VOCs by EPA Method 8260
- SVOCs (polyaromatic hydrocarbons fraction only) by EPA Method 8270
- Total Organic Halogen (TOX) by EPA Method 9020B
- Total RCRA-8 Metals by EPA Method 6010
- PCBs by EPA Method 8082

Additional laboratory analysis required by soil disposal or recycling facilities may also include:

- flashpoint/ignitability
- corrosivity
- reactive cyanide and sulfate
- Toxicity Characteristic Leaching Procedure (TCLP)
- Asbestos (if suspect materials are observed)

## 1.0 INTRODUCTION

### 1.1 Purpose

This report provides the results of a Phase I Environmental Site Assessment (ESA) performed for the Fox Hill Elementary School located at 252 Fox Hill Road in Burlington, Massachusetts (herein after referred to as the Site). This assessment was performed to evaluate evidence of oil and/or hazardous materials that exist on, or have existed on, the Site and or that may have migrated onto the Site.

In conducting this assessment, ECMS followed the E1527-13 American Society for Testing and Materials (ASTM) document entitled "Standard Practices for Environmental Site Assessments: Phase I Environmental Site Assessment Process" for commercial real estate, as well as the All Appropriate Inquires (AAI) Final Rule of November 1, 2006. Any exceptions to, or deletions from, this practice are described in Section 1.4.

The primary purpose of this assessment was to identify *recognized environmental conditions (REC)* in connection with the subject property. ASTM defines *recognized environmental conditions* as the presence or likely presence of hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or material threat of a release into structures on the property or into the ground, groundwater, or surface water of the property. The purpose of this practice is to define good commercial and customary practice for conducting an environmental site assessment of a parcel of commercial real estate with respect to the range of contaminants within the scope of Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (42 U.S.C. 9601) and petroleum products. As such, this practice is intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or *bonafide* prospective purchaser limitations on CERCLA liability. The practice constitutes "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined at 42 U.S.C.

The practice constitutes "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined at 42 U.S.C. 9601(35)(B).

As part of the AAI Final Rule, Phase I ESAs must be conducted by or under the supervision of a qualified environmental professional. The AAI Final Rule defines an environmental professional as someone who possesses sufficient specific education, training, and experience necessary to exercise professional judgment to develop opinions and conclusions regarding conditions indicative of releases or threatened releases on, at, in, or to a property, sufficient to meet the objectives and performance factors of the rule. We declare that, to the best of our professional



knowledge and belief, we meet the definition of environmental professional as defined in §312.10 of 40 CFR 312. We have specific qualifications based on education, training and experience to assess the nature, history, and setting of the subject property. We have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

## **1.2 Scope of Work**

In accordance with the above referenced agreement, *ECMS'* Scope of Work for this Phase I Environmental Site Assessment included the following:

- Site inspection and interviews of knowledgeable key site personnel to document the current and past land use and operations from building types and uses; the location and status of underground and aboveground storage tanks, visual evidence of subsurface or surface contamination, such as areas of visibly distressed vegetation and soil staining; types, quantities, and locations of oil or hazardous materials, including polychlorinated biphenyls (PCBs); and wastes generated, stored or disposed of on or from the Site.
- Review of all available current and historical records to establish the history of the Site and nearby properties for approximately the past 100 years using available federal, state, municipal, private and insurance rate maps; aerial photographs, lists of previous owners or operators or city atlases. A review of title records was not included as part of this investigation.
- Research of technical information concerning the local geologic and hydrologic conditions to determine the likely impact of any actual or potential release on the Site or from neighboring properties and nearby potential environmental receptors such as drinking water supplies, surface water bodies, catch basins and/or detention ponds.
- Review of files held by federal, state and local environmental regulatory agencies for records of past disposal practices; accidental releases, regulatory compliance history, fires, explosions, or other accidents, the status of any current operating or discharge permits; and status of any existing storage tanks.
- Prepare written report for the Site to include site location plan, and pertinent maps, discussions of the Site location and description, site and vicinity history, inspection results, geology and hydrology, and a summary of the environmental regulatory files reviewed.

### ***1.3 Special Terms and Conditions***

The site assessment work described in this report was conducted for *DiNisco Design, Inc.* between March 28 and April 18, 2023 in accordance with *ECMS'* proposal number EC23-008 dated February 15, 2023.

### ***1.4 Limitations and Exceptions of Assessment***

The investigation was based on information sources cited in Appendix A, which included Federal, State and local regulatory agencies and Site contacts; observations of the Site and readily observable portions of adjacent properties from public right-of-ways; review of an electronic database search report; review of Local Agency database information; and a review of available historical records. Qualifications/Limitations to this report are presented in Appendix B.

### ***1.5 User Reliance***

This report has been prepared for, and can be relied upon by *DiNisco Design, Inc.* Reliance or photocopying of this document by parties other than those designated above or use of this document for purposes other than intended, is prohibited without the prior written consent of *ECMS*.

### ***1.6 Qualifications of Environmental Personnel***

In accordance with the requirements of ASTM Standard E1527-13, resumes detailing the relevant experience and qualifications of the Environmental Professionals performing this Phase I Environmental Site Assessment. Resumes are included in Appendix C entitled Qualifications of Environmental Professionals.

## **2.0 PROPERTY DESCRIPTION**

### ***2.1 Location and Legal Description of the Site***

The Site is occupied by the Fox Hill Elementary School located at 252 Fox Hill Road in Burlington, Middlesex County, Massachusetts 01803. The Site location is shown on Figure 1 includes both a Site Locus Plan (a section of the USGS Salem Quadrangle) and a Street Location Map of the Site.

The Site is depicted on the 7.5 x 15-minute U.S.G.S. topographic quadrangle for Wilmington, Massachusetts. The Universal Transverse Mercator (UTM) coordinates of the Site within zone 19 are approximately 4,710,625 meters north latitude and 320,257 meters east longitude or 42° 31' 44.58" north latitude and 71° 11' 18.45" west longitude and is at an approximate elevation of 173 feet above mean sea level (amsl).

According to the Town of Burlington Assessor's Office, the Site is identified as Assessor Parcel ID 9-47-0 and consists of 37.9 acres of land improved with one 57,347 square foot building occupied by Fox Hill Elementary School. Other improvements include a 5,632 square foot modular addition for extra classroom space, paved drive and parking areas, playground areas and a baseball field.

For a copy of the Town of Burlington Property Record Card refer to Appendix D of this report.

## ***2.2 Site and Vicinity Characteristics***

The Site is currently developed with one irregular shaped building in the central portion of the Site with play areas and an athletic field to the east of the building. A parking area is located to the north of the building. The Site property is located within a residential area.

Residential dwellings and undeveloped wooded land abut the Site to the north, south and east; and residential dwellings abut the Site to the west.

The Site and surrounding properties are shown on Figure 2, Lot Location Plan attached to this report.

None of these surrounding properties are likely to pose a potential recognized environmental concern to the Site.

## ***2.3 Descriptions of Structures, Roads, Other Improvements on the Site***

The Site is currently developed with one irregular shaped building occupied by the Fox Hill Elementary School in the central portion of the Site with a playground and athletic field to the east of the building. In addition to the current structure, the Site is improved with a 5,632 square foot modular addition for extra classroom space and a parking area to the north of the building.

Photographs taken during the *ECMS* Site reconnaissance on April 12, 2023 are included as Appendix E.

## ***2.4 Environmental Liens***

*ECMS* did not conduct a review of title records for the Site, therefore, it is not known if there are environmental liens at the Site. However, according to the Environmental Data Resources, Inc. (EDR) database search report dated March 31, 2023, the Site is not currently listed by the Massachusetts Department of Environmental Protection (MassDEP) as a Disposal Site with a Class A-3, Class A-4, Class B-2, or Class B-3 Response Action Outcome (RAO) Statement or a Permanent Solution with Conditions in accordance with the Massachusetts

Contingency Plan (MCP) 310 CMR 40.1000. Therefore, there are no Activity & Use Limitations (AUL's) currently in force at the site.

### **2.5 Current Uses of the Site**

The Site is currently used for school and recreational purposes. The current use of the Site for school and recreational purposes is not an environmental concern.

### **2.6 Current Uses of Surrounding Properties**

The current uses of surrounding properties are residential. None of the uses appear to be an environmental concern to the Site.

### **2.7 Past Uses of the Site and Vicinity**

Historical information was obtained from a review of the following references:

- Town of Burlington Assessor Office for current property record cards;
- Town of Burlington Building Department records;
- Historical Topographical Maps for 1888, 1893, 1915, 1918, 1943, 1944, 1947, 1950, 1965, 1977, 1979, 1987, 1912, 2015 and 2018;
- Historical Aerial Photographs for 1938, 1963, 1965, 1978, 1980, 1986, 1995, 2010, 2014 and 2018; and
- City Directories for 1968, 1970, 1975, 1984, 1989, 1992, 1995, 2000, 2005, 2010, 2014, 2017 and 2020.

According to historical records reviewed, the subject property was vacant, undeveloped land as early as 1888; and developed with the current school building in 1967. The modular classroom situated west of the building was added in 2006. The historical and current use of the Site as a school is not expected to represent a significant environmental concern.

According to historical records reviewed, the Site area appears to have been mostly undeveloped as early as 1888 through 1938 with residential development to the southwest by 1965 with an increase in residential development to the southwest beginning by 1963. The historical and current use of the nearby properties for residential use is not expected to represent a significant environmental concern to the Site.

### **2.8 Sensitive Receptors**

The Site is located in a residential section of Burlington. The Site is considered an *institution*, as defined at 310 CMR 40.0006. There are no other institutions, as defined at 310 CNR 40.0006 to be "any publicly or privately-owned hospital, health care facility, orphanage, nursing home, convalescent home, educational facility, or

correctional facility, where such facility in whole or in part provides overnight housing" within 500 feet of the Site.

The nearest non-culverted surface water body is an unnamed pond and Mill Brook located approximately 770 feet north-northeast of the Site. The Site is classified as a Protected Open Space Area. Wetlands are located in the southern portion of the Site within the boundary of a vernal pool. Estimated habitats of rare wetlands wildlife were not identified within 500 feet of the Site. No other Protected Open Space areas are located within 500 feet of the Site.

The Site is not located within an area classified as an aquifer or non-potential aquifer, a Zone II, well head protection areas, public or private water supplies or Interim Wellhead Protection Area (IWPA).

Refer to Figure 4 for a Map of Priority Habitats of Rare Species, Figure 5 for a Map of Estimated Habitats of Rare Wildlife and Certified Vernal Pools and Figure 6 for a Map of 21E Priority Resources Map.

There are wetlands located on and within a 500-foot radius from the Site. For the location of identified wetlands on the Site refer to Figure 7, Wetlands Map.

Potential human receptors at the Site under the current use include Site workers, construction and utility workers, students, and trespassers.

### ***2.9 Previous Environmental Reports***

No previous environmental reports were provided to *ECMS* for review.

## **3.0 RECORDS REVIEW**

*ECMS* utilized the results of an on-line computer environmental database search of facilities in the vicinity listed by agencies for various reasons. Table 1 presents the databases reviewed and the number of properties identified within the specified search distance with respect to the Site. The search distances specified by the ASTM were the minimum distances used during our search. The EDR Radius Map report with GeoCheck dated March 31, 2023 is contained in Appendix F.

<b>TABLE I FEDERAL AND STATE ENVIRONMENTAL SOURCES</b>							
Standard Environmental Sources	Search Distance	Number of Sites	Location with Respect to the Site (miles)				
			Site	< 1/8	1/8 – 1/4	1/4 - 1/2	1/2 - 1
NPL Sites List	1.0 mile	0	No	0	0	0	1
NPL Delisted Sites List	1.0 mile	0	No	0	0	0	0
CERCLIS List	0.5 mile	0	No	0	0	0	NR
NFRAP	0.5 mile	5	No	0	0	5	NR
RCRA TSD List	0.5 mile	0	No	0	0	0	NR
RCRA Generators List (LOG)	0.25 mile	0	No	0	0	NR	NR
RCRA Generators List (SQG)	0.25 mile	0	No	0	0	NR	NR
RCRA Generators List (VSQG)	0.25 mile	0	No	0	0	NR	NR
RCRA Cor Act	1.0 mile	0	No	0	0	0	0
Federal IC/EC	0.5 mile	0	No	0	0	0	NR
ERNS List	Site	0	No	NR	NR	NR	NR
Tribal Lands	1.0 mile	0	No	0	0	0	0
MassDEP/Tribal Sites List (CERCLA equiv.)	1.0 mile	8	No	0	0	1	7
MassDEP/Tribal LUST List	0.5 mile	5	No	0	0	5	NR
MassDEP/Tribal LAST List	0.5 mile	4	No	0	1	3	NR
MassDEP Spills List	Site	0	No	NR	NR	NR	NR
MassDEP/Tribal Landfill/Solid Waste Disposal Sites List (active & inactive)	0.5 mile	0	No	0	0	0	NR
MassDEP/Tribal Registered UST List	0.25 mile	0	No	0	0	NR	NR
MassDEP/Tribal Registered AST List	0.25 mile	0	No	0	0	NR	NR
MassDEP/Tribal IC	0.50 mile	0	No	0	0	0	NR
MassDEP/Tribal Brownfields	0.5 mile	0	No	0	0	0	NR
MassDEP Asbestos	Site	4	Yes	NR	NR	NR	NR

NR = Not Reported

### **3.1 U.S. Environmental Protection Agency (EPA)**

#### CERCLIS and NPL

The EPA tracks sites to be investigated or that are currently being investigated for the threatened or actual release of hazardous substances to the environment. This system is under the jurisdiction of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, also known as Superfund. The CERCLA Information System (CERCLIS) database indicates if a site has been or is being considered for designation on the National Priorities List (NPL). The NPL is the list of abandoned and/or uncontrolled hazardous waste sites identified for priority action under Superfund. To be placed on the NPL, a property must exceed a hazard ranking evaluation, pose a significant threat to health and the environment, and require remedial action. The EPA also tracks the NPL sites that have been delisted from the NPL where no further response is appropriate.

The Site is not listed as either a current or delisted NPL facility or CERCLIS facility. There are no CERCLIS listed properties located within one mile of the Site. There is one NPL facility located within one mile of the Site. The closest NPL listed property is identified as Olin Chemical at 51 Eames Street in Wilmington, Massachusetts, approximately 3,108 feet east of the Site. Olin Chemical manufactured chemicals in 1953 until the facility closed in 1986. Historical wastewater disposal practices were discovered in unlined pits and ponds in the central portion of this facility as well as a man-made excavation on-site. Initial remedial activities included an acid treatment and neutralization system with the installation of new lined lagoons. Subsequent subsurface assessments discovered contamination of soil and groundwater including nearby drinking water wells and wetland areas with a plume of ammonia, chloride, sodium, sulfate, chromium and N-nitrosodimethylamine (NDMA). The edge of the groundwater plume has been delineated and is located over 3,000 feet east of the Site. Based on the distance of known impacts to groundwater this NPL facility not likely to pose an environmental concern to the Site.

#### NFRAP (No Further Remedial Action Plan)

The EPA maintains a database of archived CERCLA sites where assessment has been completed and a determination has been made that the location is not judged to be a potential NPL property.

The Site is not listed on the NFRAP. There are no NFRAP listed properties located within one-half mile of the Site.

### **3.2 Resource Conservation and Recovery Act (RCRA) Handlers**

The RCRA TSD list includes any operation that transports, stores or disposes of hazardous waste and which must obtain a hazardous waste identification number or

transporter permit. ECMS review of the RCRIS Transporters database indicated that the Site was not listed as a RCRA TSD of hazardous waste and there are no RCRA TSD listed facilities located within one-half mile of the Site.

The RCRA COR ACT is a database maintained for management and inventory of RCRA generators, transporters, treaters, storers and disposers of hazardous materials. ECMS review of the RCRA COR ACT database indicated that the Site was not listed as a RCRA COR ACT facility and there are no RCRA COR ACT listed facilities located within one-mile of the Site.

The RCRA Generators list includes any operation that generates hazardous waste and which much obtain a hazardous waste generator identification number. The Site is not listed as a RCRA Generator and there are no RCRA Generators located within ¼-mile of the Site.

### ***3.3 Massachusetts Department of Environmental Protection (MassDEP)/Tribal Lands SHWS***

The MassDEP/Tribal Sites list or equivalent CERCLIS [state hazardous waste sites (SHWS)] contains the names of facilities and/or locations within the state of Massachusetts, which have reported releases of contaminants from petroleum storage systems. This report is maintained by the MassDEP. The Site does not appear on the MassDEP Sites List.

The database identified eight MassDEP Sites listings within a one-mile radius of the subject Site. The closest SHWS is located greater than 1,500 feet from the Site. Based on the distances from the Site, these eight SHWS sites are not expected to represent a significant environmental concern for the Site.

### ***3.4 MassDEP Leaking Underground Storage Tank List (LUST)***

The MassDEP maintains this database of releases of oil or hazardous materials from USTs. The Site does not appear on the LUST List and there are no MassDEP LUST sites within a one-half mile radius of the Site.

### ***3.5 MassDEP Leaking Aboveground Storage Tank List (LAST)***

The MassDEP maintains this database of releases of oil or hazardous materials from ASTs. The Site does not appear on the LAST List and there are no MassDEP LAST sites within a one-half mile radius of the Site.

### ***3.6 State/Tribal Solid Waste Landfills***

The Site does not appear on the Solid Waste Landfill list. There were no properties listed on the Solid Waste Landfill list within a one-half mile radius of the Site.



### ***3.7 Spill Locations***

The Site does not appear on the MassDEP Spills list.

No other spills of oil and/or hazardous materials are documented in MassDEP records within a one-quarter mile radius of the Site.

### ***3.8 Emergency Response Notification System (ERNS)***

The EPA Emergency Response Notification System (ERNS) list is a list of hazardous material spills. The Site does not appear on the ERNS list.

### ***3.9 State of Massachusetts/Tribal Registered Underground Storage Tanks (RUST) List***

This database, maintained by the State of Massachusetts Department of Fire Services, registers locations with either USTs or aboveground storage tanks (ASTs). The Site does not appear on the RUST list. There are no other sites within a 0.25-mile radius of the Site identified on the RUST or the RAST list.

### ***3.10 Historical Automotive Repair or Gasoline Service Stations***

According to EDR records there is no historical automobile service station on the Site or within a 1/8-mile radius of the Site.

### ***3.11 Brownfields***

The Site is not listed as a Brownfield location. According to the EDR database report, there are no Brownfield listed properties within a one-half mile radius of the Site.

### ***3.12 Municipal and Local Authorities***

Information related to environmental responses at the Site was requested from Town of Burlington municipal offices.

#### **Burlington Fire Prevention Department**

As of the date of this report, ECMS has not received a response from the Burlington Fire Prevention Office. Refer to information received from the Burlington Health Department pertaining to the use, storage or release of oil or hazardous materials at the Site discussed below.

### Burlington Clerk's Office

The Burlington Clerk's Office did not have information pertaining to the use, storage or release of oil or hazardous materials at the Site.

### Burlington Health Department

The Burlington Health Department (BHD) Office provided the following information pertaining to the use, storage or release of oil or hazardous materials at the Site.

- The BHD provided *ECMS* with copies of asbestos related documents including a copy of a Commonwealth of Massachusetts Asbestos Notification Form for the removal of five square feet of boiler related asbestos containing materials (ACM) coating in August 1995; copies of Six Month Reinspection Hazard Assessment Summary Sheets dated December 1995, June and December 1996 and June 1997; and a copy of Asbestos Hazard Emergency Response Act (AHERA) Three Year Reinspection Reports prepared by Recon Environmental Corporation dated May 15, 1995 and Levine-Fricke-Recon dated September 14, 1998. ACM identified by LFR included boiler gasket material, blue and gray transite siding, 12-inch by 12-inch floor tile and mastic, wall plaster in the cafeteria, gray tank insulation, breaching insulation, and fitting insulation in the boiler room. Refer to Section 5.3 for further discussion pertaining to ACM at the Site.
- The BHD provided *ECMS* with copies of Material Safety Data Sheets for all cleaning and art and classroom supplies used and stored on-site in accordance with the Right to Know legislation.
- According to a memorandum to Richard Benowitz, Principal of Fox Hill Elementary School from Todd H. Dresser, CHMM, TURP dated December 1, 2003, a sample of the drinking water at a fountain was collected for laboratory analysis for lead and copper on October 27, 2003. According to Mr. Dresser, lead and copper were detected in the sample collected on October 27, 2003 at concentrations of 20 parts per billion (ppb) and 110 ppb, respectively. The concentration of lead exceeded the applicable maximum contaminant level of 5 ppb. A second sample was collected from the fountain after being flushed for five minutes. According to Mr. Dresser, lead and copper were detected at concentrations of 4 ppb and less than 50 ppb, respectively. Based on these analytical data, Mr. Dresser recommended that all drinking water fountains within the school be flushed daily for five minutes prior to students' arrival. Additionally, Mr. Dresser indicated that all drinking water fountains be sampled to determine if elevated lead was present at all drinking water fountains.

- According to an email to Mr. Todd Dresser and Mr. Brian Lockard from Mr. Alex Pancic of Clean Soils Environmental, Ltd. dated August 7, 2000 indicated that the Site was formerly serviced by an on-site septic system that was scheduled to be decommissioned on August 15, 2000.
- Copies of Town of Burlington Hazardous Materials Registration Form dated September 20, 1993 listing the storage of oil in an 8,000-gallon UST installed on December 3, 1967 and located adjacent to the south exterior side of the Site building and 200-gallons of oil in a 200-gallon AST installed in October 17, 1987 and located adjacent to the west exterior side of the Site building. A second Hazardous Materials Registration Form is undated and indicates the storage of duplicating fluid for use in the office and protection clear spray and clear acrylic spray for use during art classes as well as the 8,000-gallon UST. Refer to discussions below for removal of USTs at the Site.
- According to BHD records, two (2) one-gallon plastic containers of waste oil were discovered in a trash barrel in the Site parking lot on January 8, 1990. One of the containers was open and the contents were released onto the pavement in the parking lot. Remedial activities included the application of absorbent material.
- According to BHD records, eight quart-sized containers of oil were discovered dumped on the access road behind Fox Hill Road on December 14, 1993. Two (2) of the containers were observed to be ruptured releasing contents to pavement and soil in this area. Remedial activities included the application of absorbent material and removal of approximately 0.5 cubic yards of visibly stained soil for off-site transport and disposal.
- According to BHD records, a release of approximately five- to seven-gallons of heating oil was reported as a result of overfilling of an oil tank near the loading dock on February 29, 1996. Remedial activities included the application of absorbent material and removal of visibly stained soil for off-site transport and disposal.
- On April 23, 1997, the Burlington Fire Prevention Bureau issued a permit for the removal of a 500-gallon capacity UST. *ECMS* reviewed a copy of an Underground Storage Tank Removal and Limited Removal Action report prepared by *Gulf of Main Research Center, Inc. (GMRC)* dated August 18, 1997. According to *GMRC's* report, one 500-gallon No. 2 fuel oil UST was removed from the Site on April 23, 1997. Based on interviews and historical records, it is believed that this UST contained diesel fuel and was associated with an emergency generator. The UST was located adjacent to the west exterior side of the Site building. *GMRC* reported that no holes were observed in the UST once removed and no significant soil staining was observed in surrounding subsurface with the exception of slight staining in the vicinity of the fill pipe.

No sheens were observed on visible groundwater in the UST grave. Approximately 8.78 tons of the impacted soil was stockpiled and later transported off-site for disposal. Four (4) confirmatory soil samples were collected for laboratory analysis for total petroleum hydrocarbons (TPHs). Soil samples identified as SS 101 through SS 104 were collected from the sidewalls of the excavation. GMRC did not collect soil samples from the bottom of the excavation since the UST formerly sat on a concrete pad. According to GMRC's report, TPHs were not detected in the three soil samples collected from within the UST grave at concentrations exceeding applicable laboratory reporting limits. GMRC concluded that UST removal and soil disposal was conducted under a Limited Removal Action and that site conditions did not trigger a notification requirement to the MassDEP.

- ECMS reviewed a copy of an Underground Storage Tank Closure Assessment prepared by *Clean Soils Environmental Ltd. (CSE)* dated August 10, 1999. According to CSE's report, one (1) 8,000-gallon fuel oil UST installed in approximately 1966 was removed from the Site on July 19, 1999. The UST was formerly located in the vicinity of the loading dock on the southern exterior side of the Site building. During removal of the UST, CSE collected soil samples for field screening of total volatile organic compounds (TVOCs) using a photoionization detector (PID). According to CSE's report, TVOC results ranged from 0.4 to 26.5 parts per million per volume (ppmv). Upon removal, CSE reported that no holes were observed in the UST and no significant soil staining was observed in surrounding subsurface with the exception of slight staining in the vicinity of the fill pipe. This soil was excavated for off-site transport for proper disposal. Of note, CSE indicated that the feed and return lines for the UST were not removed due to a concern for undermining the foundation of the building. In addition, CSE indicated that no sheens were observed on visible groundwater in the UST grave. Three (3) confirmatory soil samples were collected for laboratory analysis for extractable petroleum hydrocarbons (EPHs). Soil samples identified as BOT2, SW6 and FP2 were collected from the bottom and sidewalls of the excavation and from within the vicinity of the fill pipe, respectively. According to CSE's report, EPHs were not detected in the three soil samples collected from within the UST grave or below the former fill pipe at concentrations exceeding applicable laboratory reporting limits. Based on field observations and laboratory analytical data, CSE concluded that no evidence of a release from the former UST was identified.

Based on remedial activities conducted to address spills at the Site, the spill incidents appear to be de minimis in nature and are not expected to represent a significant environmental concern to the Site. Additionally, based on the removal of the former USTs combined with analytical data, the former USTs at the Site are not expected to represent an environmental concern to the Site.

### Burlington Conservation Commission

The Burlington Conservation Commission Office did not have information pertaining to the use, storage or release of oil or hazardous materials at the Site.

### Burlington Building Department

According to Burlington Building Department (BBD) records, the Site building was constructed in 1967. The Burlington Building Department Office did not have information pertaining to the use, storage or release of oil or hazardous materials at the subject property with the exception of a depiction of a buried diesel oil storage tank on a Site Plan showing utilities dated September 17, 1965. Other documents indicated that asbestos removal was conducted in 1989. Refer to the BHD summary above and Section 5.3 for additional discussion pertaining to ACM.

### **3.13 Tier 1 Vapor Encroachment Screening**

ECMS performed a Tier 1 Vapor Encroachment Screening in compliance with ASTM E 2600-10 “ASTM Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions” as amended. The purpose of the Tier 1 Vapor Encroachment Screening is to conduct an initial screen to determine if a Vapor Encroachment Condition (VEC) exists in connection with the Site. A VEC is defined as the presence or likely presence of chemical of concern vapors in the subsurface of the Site caused by the release of vapors from contaminated soil or groundwater either on or near the Site.

ECMS reviewed standard environmental record sources to identify if there are known or suspected sources of contamination within the area of concern. According to ASTM E 2600-10, the area of concern is defined by the approximate minimum search distance which is based upon the chemical of concern (i.e., petroleum hydrocarbons vs. non-petroleum hydrocarbons) and the location of a known or suspected source of contamination with respect to the Site.

According to ASTM E 2600-10 8.2.1 “The area of concern is one third of a mile around the Site, unless the use of a shorter distance is appropriate”. In addition, according to ASTM E 2600-10 8.3.1, “The approximate minimum search distance may be expanded or reduced in the up-gradient, down-gradient, and/or cross-gradient directions by the environmental professional conducting the Vapor Encroachment Screening based upon experience in the local area.” Given that there were no properties of concern for vapor release to the Site nearby, the minimum search distances were not expanded or reduced. Unless otherwise stated, groundwater flow/gradient is approximated based on surface topography.

Based on a review of the EDR regulatory database report, the Site is not identified with any spills or releases. Two (2) USTs were removed from the Site including one

(1) 500-gallon capacity No. 2 fuel oil UST removed on April 23, 1997 and one (1) 8,000-gallon capacity fuel oil UST removed on July 19, 1999. Based on a review of closure documents provided by the BHD, no residual impacts to soil remained in tank graves and no impacts to groundwater were noted during the UST removals. Based the lack of impacts to soil or groundwater at the Site, there does not exist a potential environmental concern with respect to a VEC for the Site.

*ECMS* was not provided information from the user, current landowner or key site manager regarding specialized knowledge or experience or commonly known or reasonably ascertainable information within the local community about the Site that is material to the assessment of a VEC in connection with the Site.

According to the EDR database report, one property was identified with a documented release at a location nearby and potentially upgradient from the Site. Based on remedial activities, lack of documented impact to soil or groundwater and regulatory oversight and closure, this release is not expected to represent a recognized environmental condition or VEC in connection with the Site.

Refer to Appendix G, Environmental Data Resources, Inc. (EDR) Vapor Encroachment Screen Report dated April 18, 2023.

### ***3.14 Unmapped Sites***

There are three non-geocoded (unmapped or orphaned sites) facilities listed in the Environmental Data Resources report. When possible, the properties within 500 feet of the Site were located during *ECMS*' Site reconnaissance. One identifiable unmapped facility representing conditions indicative of releases of oil and/or hazardous substances or potential releases of oil and/or hazardous substances near the Site was identified during this investigation.

Sumner Street @ Fox Hill Road at Sumner Street is listed as an Unmapped Site and is identified as a SHWS site. *ECMS* reviewed a Permanent Solution Statement report prepared by *Jewel Environmental Corporation (JEC)* dated April 2020. According to *JEC*'s report, the MassDEP was notified on February 13, 2020 of a release of approximately 40 gallons of hydraulic oil from a ruptured hydraulic line on a trash pickup truck. The MassDEP subsequently issued the Release Tracking Number 3-0036136 to the release. According to *JEC*'s report, the hydraulic oil impacted road surfaces along Sumner Street and Fox Hill Road and due to rain also impacted nearby catch basins along Sumner Street. Remedial activities included the application of absorbent materials along impacted roadway pavement and the skimming of oil from catch basins using a vacuum truck. Following the remedial activities, impacted areas were inspected and found to be clean with no sign of cracks or holes or other conduits to the subsurface. Based on the remedial activities and lack of impact to subsurface media, *JEC* concluded that site conditions met requirements of regulatory closure under a Permanent Solution. Based on a site plan

prepared by JEC, the closest extent of impact to roadway surfaces was approximately 447 feet southwest of the Site. Based on remedial activities, distance from the Site, lack of impact to groundwater and regulatory oversight and closure, RTN 3-0036136 is not expected to represent a significant environmental concern for the Site.

No other identifiable unmapped facilities representing conditions indicative of releases of oil and/or hazardous substances or potential releases of oil and/or hazardous substances on, at, in or to the Site were identified during this investigation.

#### 4.0 INFORMATION FROM THE SITE RECONNAISSANCE

Ms. Cheryl A. Cambria, Environmental Professional for ECMS, visited the Site on April 12, 2023. Mr. Kevin Baker, maintenance personnel for the Site, accompanied Ms. Cambria during the Site visit. Mr. Baker is considered to be a “Knowledgeable Person”. The reconnaissance was conducted to observe any condition indicative of the release or threat of a release of oil or hazardous substances on, at, in or to the Site. Refer to Appendix E for Photographs taken on April 12, 2023.

The ASTM 1527-13 User Questionnaire was provided to Mr. Bob Cunha, Director of Operations for Burlington Public Schools and person most familiar with this property. As of the date of this report, the User Questionnaire has not been returned to ECMS. A copy of this ASTM 1527-13 User Questionnaire is attached as Appendix H of this report.

Information gained in the interview if known and pertinent was included in the following sections of the report. The reconnaissance was conducted to observe any evidence of the release or threat of a release of oil or hazardous materials. Observations made during the Site visit are summarized below.

##### 4.1 *Hazardous Materials Storage and Disposal*

Small quantities of building maintenance supplies were observed during the site reconnaissance on April 12, 2023. These materials appeared to be properly labeled and stored with no spills or releases observed. Based on the nature of use, overall small quantities observed, these materials are not expected to represent a significant environmental concern to the Site.

##### 4.2 *Solid Waste Disposal*

No areas that were apparently filled or graded by non-natural causes suggesting trash or other solid waste disposal.

Republic Services picks up solid waste from a commercial dumpster located on the southern exterior side of the Site building.

#### **4.3 Storage Tanks**

According to the EDR report database there are no current underground storage tanks (USTs) located on the Site. No obvious visual evidence (vent pipes, fill pipes of USTs) was observed on April 12, 2023.

#### **4.4 Polychlorinated Biphenyls (PCBs)**

PCBs were commonly used as insulating and cooling fluids in electrical equipment, including transformers, ballasts and capacitors as well as in hydraulic fluids such as elevator equipment. The Site building is not equipped with hydraulic passenger elevator(s).

One pad-mounted transformer was observed on the Site. The transformer is labeled as non-PCB containing. No staining or leakage was observed in the vicinity of the transformer. NStar Electric maintains ownership and operational responsibility for the transformer. Based on the good condition of the equipment and non-PCB labeling, the transformer is not expected to represent a significant environmental concern.

Fluorescent light fixtures were observed in the Site building. The lighting fixtures appeared to be in good condition. All ballasts should be inspected and disposed of in accordance with federal, state, and regional requirements.

Based upon field observations, the age of the improvements on-Site, and information obtained, the potential for on-Site PCB contamination resulting from leaks or spills of electrical or hydraulic equipment utilizing PCB-containing fluids appears minimal.

#### **4.5 Electromagnetic Fields (EMFs)**

There are no overhead high voltage transmission lines, microwave towers, or antennas located on the subject Site.

#### **4.6 Groundwater Wells**

ECMS did not observe groundwater monitoring wells at the time of the Site reconnaissance on April 12, 2023.

#### **4.7 Landfills, Pits, Sumps**

The Underground Injection Control (UIC) program protects drinking water by regulating discharges to the ground via injection wells such as dry wells, septic systems tied to industrial processes, and other subsurface leaching systems. Pursuant to UIC regulations (310 CMR 27.00), where the potential exists for pollutants to enter an injection well (e.g. by means of a floor drain) and the presence of the pollutants causes



or may cause a violation of any Massachusetts Drinking Water Regulation or adversely affects or may adversely affect public health, the use of the well is prohibited. With the exception of discharges authorized under the Department's Ground Water Discharge Permit program, the Department considers this prohibition to include the use of any injection well at facilities which have in the past or currently use, store, or otherwise manage hazardous materials and/or wastes as defined in 310 CMR 30.000 and 310 CMR 40.0000. This Notice is not applicable to any facility where the floor drain is connected to a Municipal Sewer System. ECMS did observe one floor drains in the kitchen area in the Site building. According to Mr. Baker, the Site building is connected to the Town of Burlington sanitary sewer system.

ECMS personnel did not observe any additional evidence of landfills, pits, or sumps at the Site.

#### **4.8 Dry Cleaning Operations**

No evidence of current or historical dry-cleaning operations at the Site was identified during this assessment.

#### **4.9 Chlorofluorocarbons as Coolants (CFCs)**

The cooler located in the kitchen area is serviced by a Freon-fueled compressor. This unit does not appear to contain R-22 Freon. Should any refrigerant waste ever be identified as CFC-containing and need to be disposed of it should be handled properly by licensed subcontracted personnel.

#### **4.10 Hydrology and Geology of the Site Vicinity**

The nearest non-culverted surface water body, an unnamed pond and tributary to the Mill Brook, is located approximately 770 feet north-northeast of the Site.

The Site is situated in within the Seaboard Lowland section of the New England physiographic province of the State of Massachusetts. Based on a review of the Bedrock Geologic Map of Massachusetts (Zen, 1983), the uppermost geologic formation underlying the soils at the Site is a Silurian or Ordovician age Andover Granite consisting of light- to medium-gray, foliated, medium- to coarse-grained muscovite-biotite granite.

The Site topography slopes from the southwest toward the north-northeast. The majority of the lot is unpaved, with grassy areas with wooded areas in the southeastern portion and with a vernal pool and associated with wetlands located in the southeastern portion.

Information specific to the Site regarding the depth to groundwater and direction of groundwater flow was not available for the Site. However, according to topographic

interpretation and on-Site water features, depth to groundwater is anticipated between 10 to 20 feet below ground surface and flow is inferred to the north-northeast.

According to information obtained from the United States Department of Agriculture National Resources Conservation Service Web Soil Survey, soil at the Site is mapped as a mixture of Charlton-Hollis-Rock Outcrop complex, Rock Outcrop-Hollis complex, Montauk fine sandy loam, Paxton fine sandy loam, Scituate fine sandy loam, Paxton-Urban land complex and Udorthents-Urban land complex. The Charlton-Hollis-Rock Outcrop complex consists of well drained, fine sandy loam overlying sandy loam and gravelly sandy loam with slopes ranging from 15 to 25 percent. The Rock Outcrop-Hollis complex consists of well drained fine sandy loam overlying weathered bedrock. The Montauk complex consists of well drained moderately decomposed plant material overlying fine sandy loam, sandy loam and gravelly loamy sand with slopes ranging from zero to 15 percent. The Paxton complex consists of well drained moderately decomposed plant material overlying fine sandy loam and gravelly fine sandy loam with slopes ranging from zero to eight percent. The Scituate complex consists of well drained fine sandy loam overlying loamy fine sand and gravelly loamy sand with slopes ranging from three to eight percent. The Paxton-Urban land complex consists of well drained fine sandy loam overlying gravelly fine sandy loam with slopes ranging from three to 15 percent. The Udorthents-Urban land complex consists of excavated and filled land.

## 5.0 ADDITIONAL ENVIRONMENTAL CONSIDERATIONS

Section 12 of the ASTM Standard E 1527 discusses “Non-Scope Considerations” outside the scope of “appropriate inquiry” as defined by their ESA standard practice. That is, certain environmental issues or considerations may be present on-Site that may lead to contamination of the property or nearby properties but are not included in the CERCLA definition of hazardous substances nor otherwise present CERCLA liability.

Therefore, as a part of our assessment, *ECMS* addressed several additional issues beyond the scope of the ASTM “Standard Practice” as requested by our client. These additional issues included the following sections.

### 5.1 Radon

Radon is a colorless, odorless gas produced by the radioactive decay of uranium. The most common sources of radon are igneous and metamorphic rocks, containing uranium (e.g., pitchblende), granite, shale and phosphate, as well as soils/sediments derived from such “parent materials.” Radon may also be found in soils contaminated with certain industrial wastes (e.g., uranium or phosphate mine tailings) or in earth-derived building products that contain such industrial wastes (bricks or concrete-containing phosphate slag).

Based upon information provided by the United States Environmental Protection Agency (USEPA), the predicted average indoor radon screening level in Middlesex County is greater than 4.0 Pico Curies per liter (pCi/L). The USEPA Action Level is 4.0 pCi/L for radon and Middlesex County has 26% of Sites with greater than 4.0 pCi/L. Site specific testing for radon would be necessary to determine that actual level at the Site.

Since there is no residential use on the property, radon was not deemed an environmental concern and was not tested.

### **5.2 Lead-Based Paint (LBP)**

Based on the age of the Site building (1967), there is a potential that LBP is present. Painted surfaces appeared to be in good condition. Actual material samples would be required in order to determine if LBP is present.

### **5.3 Asbestos Containing Materials (ACMs)**

Based on the age of the Site building (1967) and records provided by the BHD, ACM identified at the Site includes boiler gasket material, blue and gray transite siding, 12-inch by 12-inch floor tile and mastic, wall plaster in the cafeteria, gray tank insulation, breaching insulation, and fitting insulation in the boiler room.

### **5.4 Floodplain Management**

According to the Flood Insurance Rate Map for the Site, Community Panel Numbers 25017C0289E and 25017C0293E dated June 4, 2010, the majority of the Site is located in Zone X, an area of minimal flood hazard. One area on the southern portion of the Site (shown on CPN 25017C0293E) in the area classified as a vernal pond is located in Zone X, Other Flood Areas or an area of 0.2 percent Annual Chance Flood Hazard, Areas of 1 percent annual chance flood with average depth less than one foot or with drainage areas of less than one square mile. Refer to Figure 8 for a copy of the National Flood Hazard Layer Firmette.

### **5.5 Coastal Barrier Resources**

The Site is not located within an area considered to be a Coastal Barrier Resource.

### **5.6 Coastal Zone Management**

The Site is not located within an area designated as a Coastal Zone.

### **5.7 Sole Source Aquifers**

The Site is not located within an area classified as a Sole Source Aquifer.

### 5.8 *Airport Clear Zones*

The Site is not located within an Airport Clear Zone.

### 5.9 *Regulatory Compliance*

ECMS performed a cursory compliance review of site operations for potential areas of noncompliance. Based upon a review of available records and current site operations, ECMS did not identify required environmental permits and/or violations. It should be noted that the cursory review conducted is not intended to be a compliance audit or compliance statement.

### 5.10 *Off-site Soil Disposal Sampling Requirements*

If off-site disposal of soil is necessary, samples should be analyzed in accordance with the receiving facility's testing requirements. The number of analyses is typically dictated by the total weight or volume of the material to be disposed of, generally one sample for every 500 cubic yards is required. To date, no soil samples have been collected by ECMS in an effort to precharacterize site soil and are representative of the anticipated quantity to be excavated. Soil samples should be collected as necessary.

The minimum laboratory analysis of soil samples suspected of being contaminated shall be as follows in accordance with MassDEP Policy# COMM 97-001, Reuse and Disposal of Contaminated Soil at Massachusetts Landfills:

VOCs by EPA Method 8260

SVOCs (polyaromatic hydrocarbons fraction only) by EPA Method 8270

Total Organic Halogen (TOX) by EPA Method 9020B

Total RCRA-8 Metals by EPA Method 6010

PCBs by EPA Method 8082

Additional laboratory analysis required by soil disposal or recycling facilities may also include:

flashpoint/ignitability

corrosivity

reactive cyanide and sulfate

Toxicity Characteristic Leaching Procedure (TCLP)

Asbestos (if suspect materials are observed)

## 6.0 CONCLUSIONS AND RECOMMENDATIONS

ECMS has performed this environmental assessment in conformance with the scope and limitations of the ASTM Standard Practice for Environmental Site Assessment: Phase I Environmental Site Assessment Process Document E-1527-13. The ASTM Phase I Site Assessment Standard (ASTM E1527-13) has been updated to the requirements of EPA's All Appropriate Inquiry (AAI) Final Rule (effective as of November 1, 2006). ECMS has performed this environmental assessment for the Fox Hill Elementary School at 252 Fox Hill Road in Burlington, Massachusetts. Any exceptions to or deletions from this practice are described in Section 1.3 entitled *Limitations and Exceptions of Assessment*. This assessment has revealed the following:

A *recognized environmental condition (REC)* refers to the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: due to release to the environment; under conditions indicative of a release to the environment; or under conditions that pose a material threat of a future release to the environment.

- ECMS did not identify a REC during the course of this assessment.

A *controlled recognized environmental condition (CREC)* refers to a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls. The following was identified during the course of this assessment:

- ECMS did not identify any controlled recognized environmental conditions during the course of this assessment.

A *historical recognized environmental condition (HREC)* refers to a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls. The following was identified during the course of this assessment:

- ECMS did not identify any historical recognized environmental conditions during the course of this assessment.

An *environmental issue* refers to environmental concerns identified by ECMS, which do not qualify as RECs; however, warrant further discussion. The following was identified during the course of this assessment:

- Two underground storage tanks (USTs) were removed from the Site including one (1) 500-gallon capacity diesel fuel UST removed on April 23, 1997 and one (1) 8,000-gallon capacity fuel oil UST removed on July 19, 1999. Based on a review of closure documents provided by the Burlington Health Department (BHD), no residual

impacts to soil remained in tank graves and no impacts to groundwater were noted during the UST removals. Based on the lack of impacts to soil or groundwater at the Site, the former USTs do not represent a REC or VEC for the Site.

- Based on the age of the Site building (1967) and records provided by the BHD, ACM identified at the Site includes boiler gasket material, blue and gray transite siding, 12-inch by 12-inch floor tile and mastic, wall plaster in the cafeteria, gray tank insulation, breaching insulation, and fitting insulation in the boiler room.
- Due to the age of the Site building, there is a potential that LBP are present. Overall, painted surfaces were observed in good condition.

### Conclusions, Opinions and Recommendations

ECMS has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 of the Fox Hill Elementary School at 252 Fox Hill Road in Burlington, Middlesex County, Burlington, Massachusetts (the “subject property”). Any exceptions to, or deletions from, this practice are described in Section 1.4 of this report. This assessment has revealed no evidence of RECs in connection with the subject property; however, environmental issues in connection with the subject property were identified. Based on the conclusions of this assessment, ECMS recommends the following:

- ECMS recommends an Operations and Maintenance (O&M) Program be implemented in order to safely manage suspect LBP located at the subject property.
- ECMS recommends continued maintenance and inspections of ACM present in the Site building in accordance with the O&M Plan and AHERA regulations. If renovation and/or demolition are to occur at the site, ECMS recommends a comprehensive asbestos assessment be performed in accordance with the requirements of 310 CMR 7.15 and 454 CMR 28.
- If off-site disposal of soil is necessary, samples should be analyzed in accordance with the receiving facility’s testing requirements. The number of analyses is typically dictated by the total weight or volume of the material to be disposed of, generally one sample for every 500 cubic yards is required. To date, no soil samples have been collected by ECMS in an effort to precharacterize site soil and are representative of the anticipated quantity to be excavated. Soil samples should be collected as necessary.

The minimum laboratory analysis of soil samples suspected of being contaminated shall be as follows in accordance with MassDEP Policy# COMM 97-001, Reuse and Disposal of Contaminated Soil at Massachusetts Landfills:

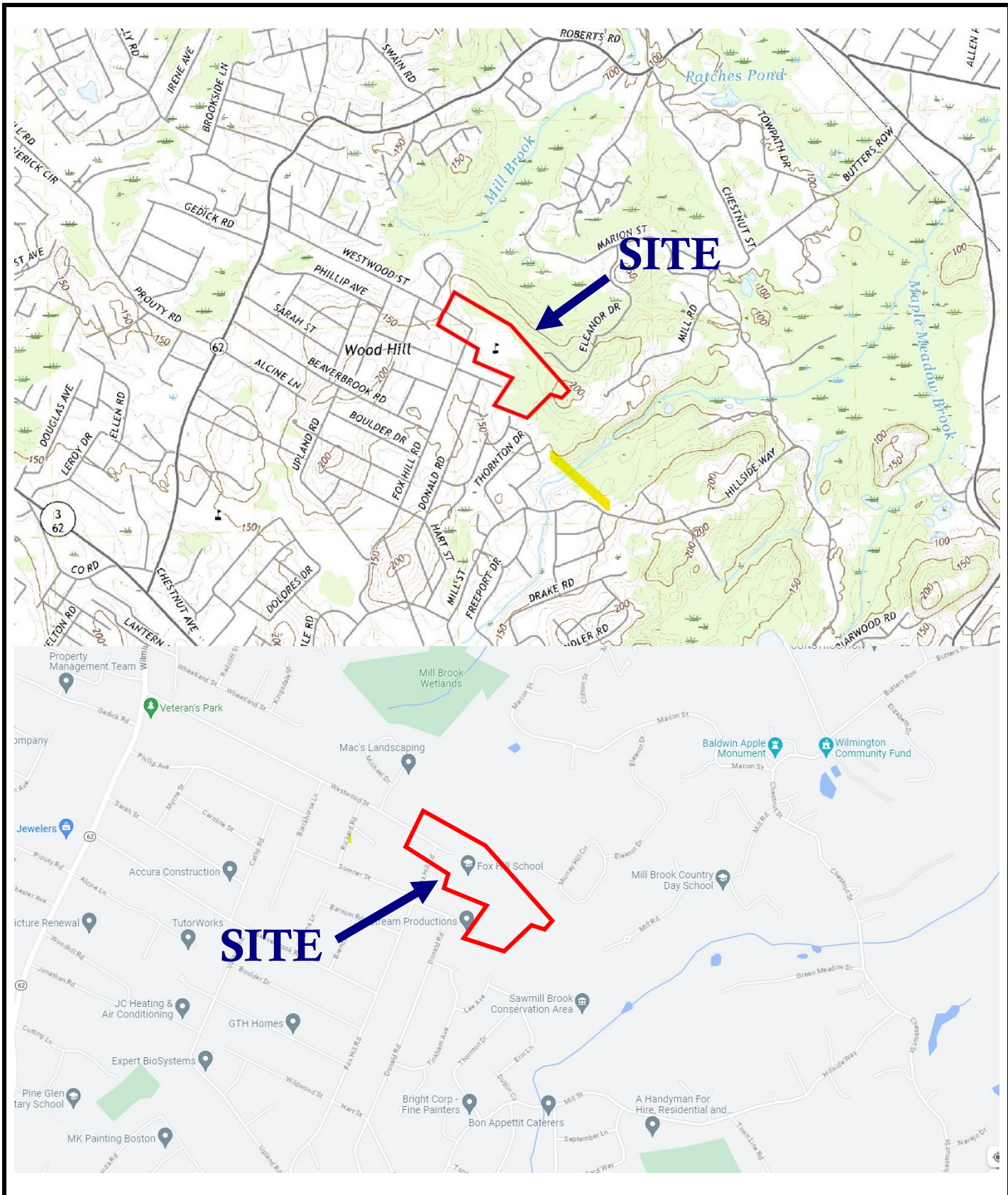
- Volatile VOCs by EPA Method 8260
- SVOCs (polyaromatic hydrocarbons fraction only) by EPA Method 8270
- Total Organic Halogen (TOX) by EPA Method 9020B
- Total RCRA-8 Metals by EPA Method 6010
- PCBs by EPA Method 8082

Additional laboratory analysis required by soil disposal or recycling facilities may also include:

- flashpoint/ignitability
- corrosivity
- reactive cyanide and sulfate
- Toxicity Characteristic Leaching Procedure (TCLP)
- Asbestos (if suspect materials are observed)

## FIGURES



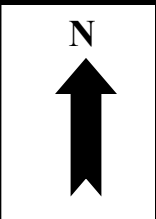


**Fox Hill Elementary School**  
 252 Fox Hill Road  
 Burlington, Massachusetts  
 01803

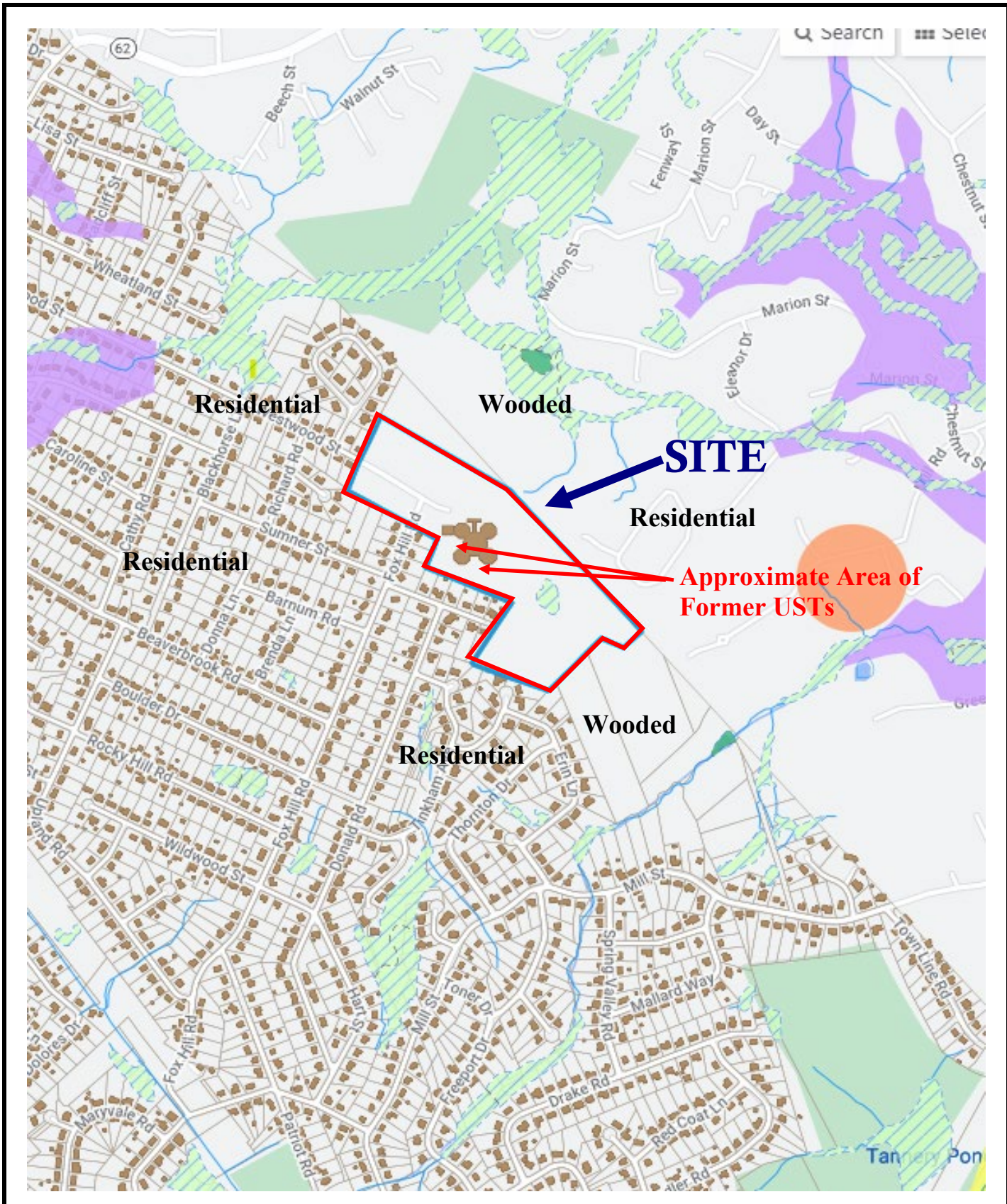


**Environmental & Construction  
 Management Services, Inc.**

Project No. 1009.077	<b>Figure 1</b>
<b>Site Locus / Street Location Plan</b>	
Drawn By: CAC	Date: 4/18/23







Fox Hill Elementary School  
 252 Fox Hill Road  
 Burlington, Massachusetts  
 01803



Environmental & Construction  
 Management Services, Inc.

Project No.  
 1009.077

**Figure 2**

Lot Location Plan

Drawn By: CAC

Date: 4/18/23







**Fox Hill Elementary School**  
 252 Fox Hill Road  
 Burlington, Massachusetts  
 01803



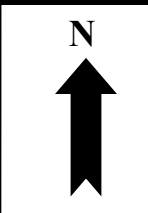
**Project No.**  
 1009.077

**Figure 3**

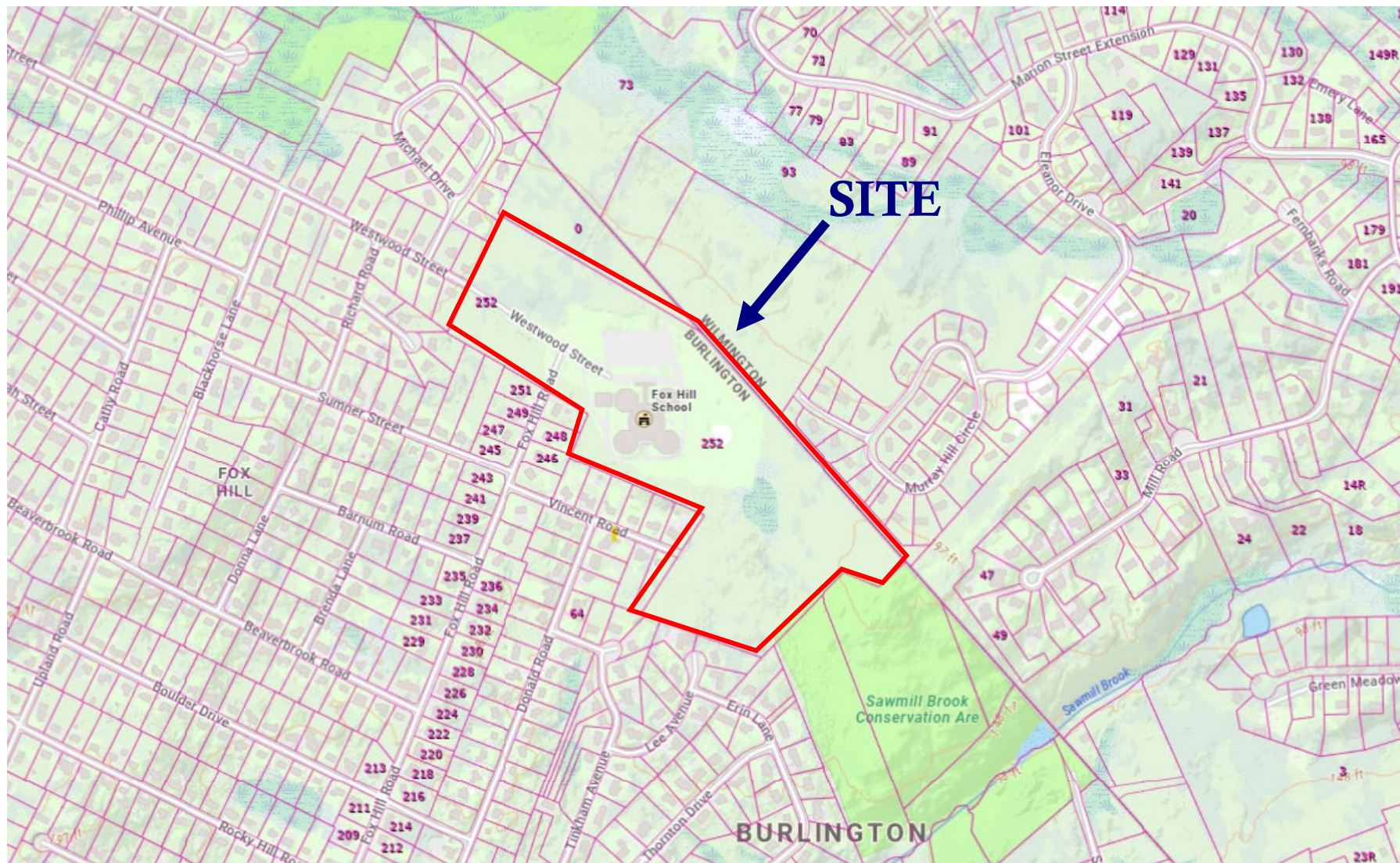
**Aerial Photograph Site  
 Location Plan**

**Drawn By:** CAC

**Date:** 9/20/20







**SITE**



Fox Hill Elementary School  
 252 Fox Hill Road  
 Burlington, Massachusetts  
 01803



Environmental & Construction  
 Management Services, Inc.

Project No.  
 1009.077

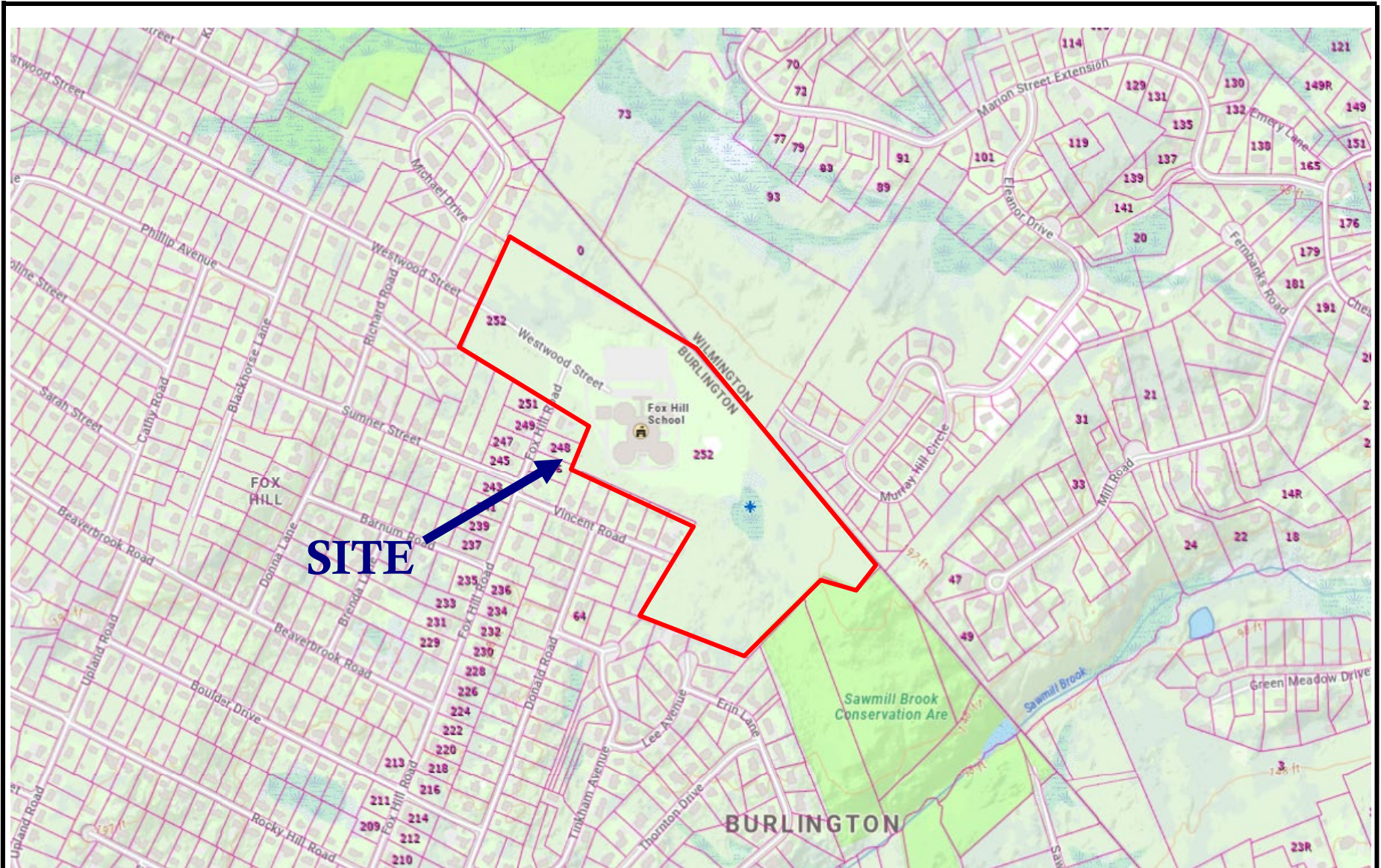
**Figure 4**

Priority Habitats of Rare  
 Species Plan

Drawn By: CAC

Date: 4/18/2023





Fox Hill Elementary School  
 252 Fox Hill Road  
 Burlington, Massachusetts  
 01803



Environmental & Construction  
 Management Services, Inc.

Project No.  
 1009.077

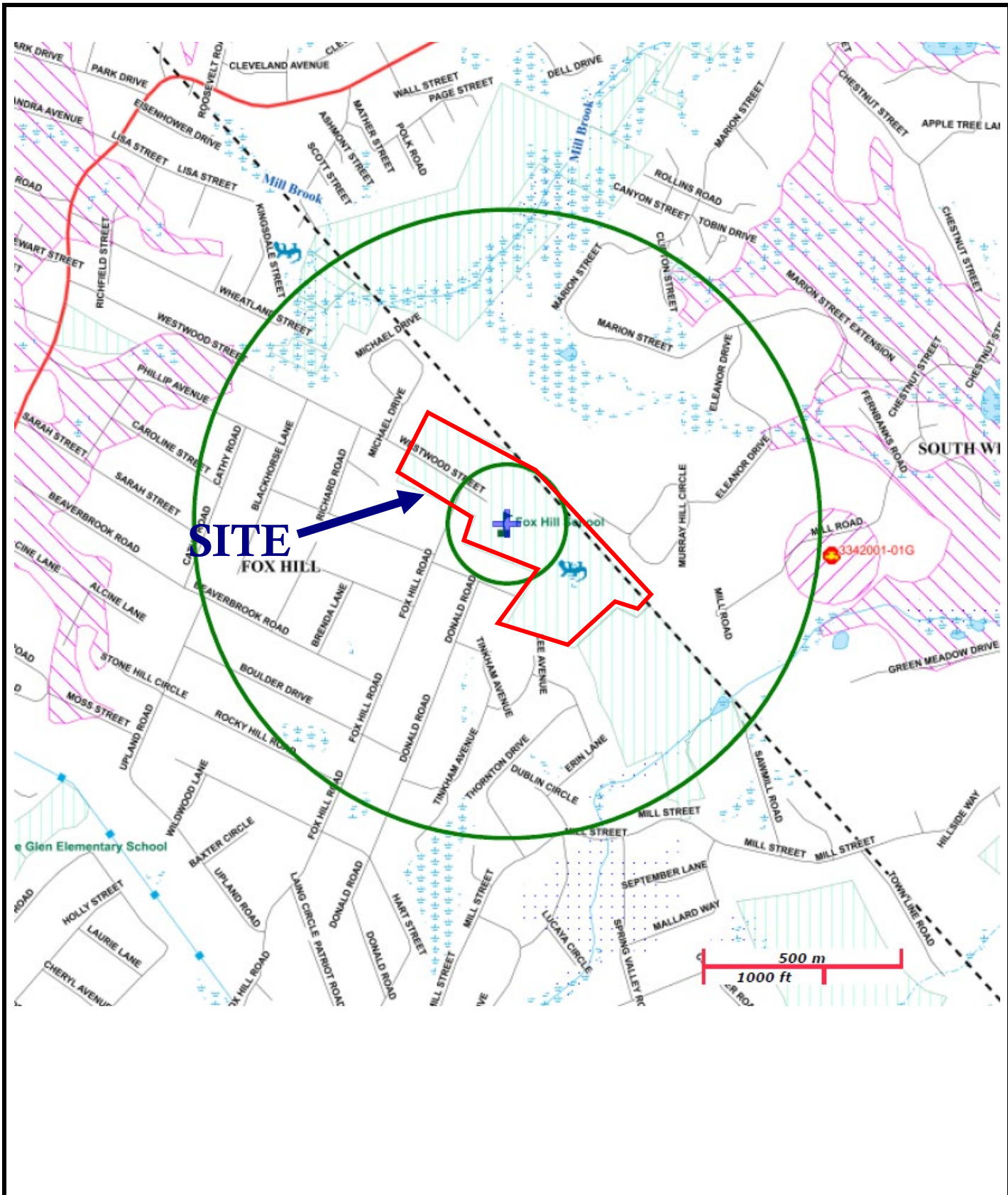
**Figure 5**

Map of Estimated Habitats of Rare Wildlife  
 and Certified Vernal Pools

Drawn By: CAC

Date: 4/18/2023





Fox Hill Elementary School  
 252 Fox Hill Road  
 Burlington, Massachusetts  
 01803



Environmental & Construction  
 Management Services, Inc.

Project No.  
 1009.077

**Figure 6**

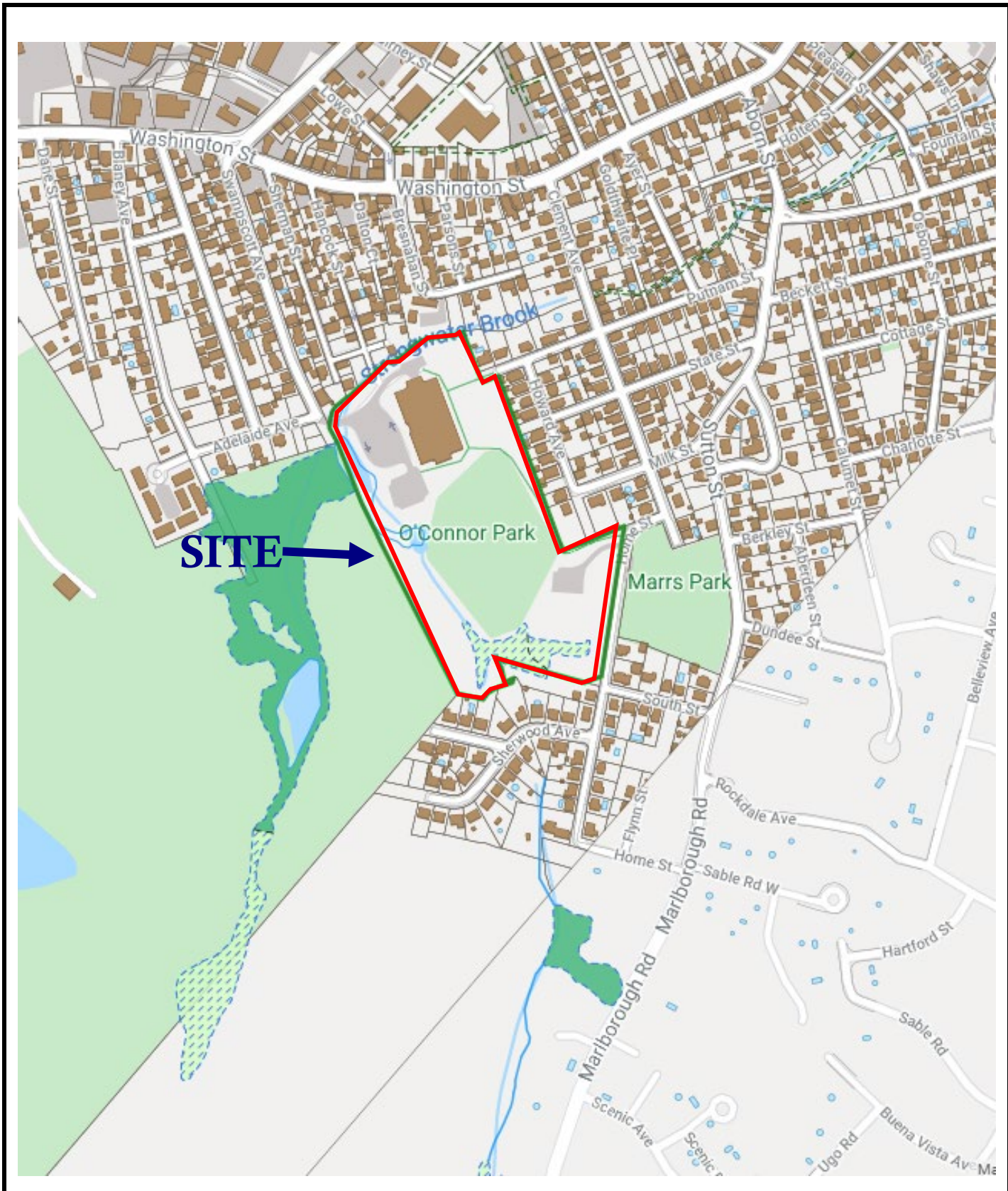
Priority Resource Map

Drawn By: CAC

Date: 4/18/23







William A. Welch, Sr.  
 Elementary School  
 50 Swampscott Avenue  
 Peabody, Massachusetts  
 01960



Environmental & Construction  
 Management Services, Inc.

Project No.  
 1318.001

**Figure 6**

**Wetland Location Map**

Drawn By: CAC

Date: 9/20/20







Fox Hill Elementary School  
 252 Fox Hill Road  
 Burlington, Massachusetts  
 01803



Environmental & Construction  
 Management Services, Inc.

Project No.  
 1009.077

**Figure 8**

National Flood Hazard  
 Firmette

Drawn By: CAC

Date: 4/18/23





**APPENDIX A**

**INFORMATION/RESEARCH SOURCES  
& HISTORICAL DOCUMENTATION**

## **RESEARCH/INFORMATION SOURCES**

Environmental Data Resources, Inc. (EDR) Radius Report with GeoCheck for Target Property in Burlington, Massachusetts, March 31, 2023.

EDR Certified Sanborn Map Report for Target Property in Burlington, Massachusetts, March 31, 2023.

EDR Certified Topographic Map Report for Target Property in Burlington, Massachusetts, March 31, 2023.

EDR Aerial Photographs for Target Property in Burlington, Massachusetts, March 31, 2023.

EDR Vapor Encroachment report for Target Property in Burlington, Massachusetts, April 18, 2023.

Town of Burlington Assessor's Office on-line database records.

Town of Burlington Health Department on April 12, 2023.

Town of Burlington Fire Department/Fire Prevention records on April 7, 2023, no response.

Town of Burlington Conservation Commission on April 7, 2023, no pertinent files.

Town of Burlington Clerk's Office on April 7, 2023, no pertinent files.

Town of Burlington Building Department on April 12, 2023.

Zen, E-an (1983) Bedrock Geology Map of Massachusetts, compiled by Richard Goldsmith, Nicholas M. Ratcliffe, Peter Robinson, and Rolfe S. Stanley and assisted by Norman L. Hatch, Jr., Andrew F. Shride, Elaine G.A. Weed, and David R. Wones, prepared in cooperation with the Commonwealth of Massachusetts, Department of Public Works, and Joseph A. Sinnott, State Geologist, scale 1:250,000.







PERMIT FOR OCCUPANCY

Date..... *Feb 24, 1967* .....

Name..... *Town of Burlington* .....

Address..... *Fox Hill Rd* .....

Type of Occupancy..... *Public School* .....



2-24-67

am withholding  
approval of the steam  
table until further  
inspection.

W. M. Nicholson  
Thumbing Inspector.



PERMIT FOR OCCUPANCY

Date..... *April 4, 1967* .....

Name..... *Elementary School* .....

Address..... *Fox Hill Rd.* .....

.....  
Type of Occupancy..... *School.* .....



Application # ..... 14465 ..... Date ..... SEP 11 1989 .....

Address: ..... Fay Hill Rd .....

Builder or Owner ..... Fay Hill School .....

Description ..... remove asbestos ..... Cost \$ 185,000- .....

Permit fee ..... N.C. : .....

Lot # ..... on ..... has been approved for sewer installation subject to rules and regulations of the Burlington Board of Health.



9091

Application # ..... Date June 3, 1981 .....

Address: .. Fox Hill Road .....

Builder or Owner .. Fox Hill School .....

Description .. Reroof .. Cost \$ 172,000 .....

Permit fee .. N.C. ....

Lot # ..... on ..... has been approved for sewer installation subject to rules and regulations of the Burlington Board of Health.

VINCENT F. HOWARD  
General Agent



Application # **736** Date **Feb. 4 1966**

Address: **Fox Hill Road North end Fox Hill School**

Builder or Owner **Peter Spinelle**

Description **elementary school #5** Cost \$ **1,178,844.00**

Permit fee **1,179.00**

Lot # **for School Westwood St.** on **Westwood St.** has been approved for septic tank installation, subject to rules and regulations of the Burlington Board of Health.

**2-4-66** VINCENT F. HOWARD,  
General Agent



252 FOX HILL RD

EP-2016-0822

GIS #:	1182
Map:	9
Block:	47
Lot:	0
Permit:	Electrical
Category:	Appliance Replacement
Permit #	EP-2016-0822
Project #	JS-2016-001173
Est. Cost:	\$4,000.00
Fee Charged:	
Balance Due:	
# of Fixtures:	
Pole #	
Service:	
Amps:	
Volts:	
# of Meters:	
SRE #	



COMMONWEALTH OF MASSACHUSETTS  
TOWN OF BURLINGTON

**ELECTRICAL PERMIT**

**PERMISSION IS HEREBY GRANTED TO:**

**Expires:**

**Contractor:** Shimmel Electric Co Inc  
**License:** Electrical - 28146  
**Owner:** TOWN OF BURLINGTON, FOX HILL SCHOOL  
**Applicant:** Shimmel Electric Co Inc  
**AT:** 252 FOX HILL RD

**ISSUED ON:** 06-Oct-2016

**EXPIRES ON:**

**AMENDED ON:**

**TO PERFORM THE FOLLOWING WORK:**

generator replacement/mechanical room

**THIS PERMIT MAY BE REVOKED BY THE TOWN OF BURLINGTON UPON VIOLATION OF ANY OF ITS RULES AND REGULATIONS.**

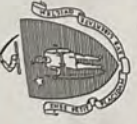
Call Jim McDonough, Wiring Inspector at 781-270-1753 to schedule all required inspections.

Rough OK \_\_\_\_\_ Above Ceiling \_\_\_\_\_ Final OK *[Signature]* \_\_\_\_\_

Signature: \_\_\_\_\_

*[Handwritten notes and signatures]*  
 2/18/16  
 2:00 PM, 2/18/16  
 Don  
 2/18/16





Commonwealth of Massachusetts  
Department of Fire Services  
BOARD OF FIRE PREVENTION REGULATIONS

Date: \_\_\_\_\_  
(Rev 08/2014)

APPLICATION FOR PERMIT TO PERFORM ELECTRICAL WORK

All work to be performed in accordance with the Massachusetts Electrical Code (MEC), 527 CMR 12.00  
Phone 781-270-1753 Fax 781-238-4667

TOWN OF BURLINGTON- 25 Center St., Burlington MA 01803

By this application the undersigned gives notice of his or her intention to perform the electrical work described below.  
Location (Street & Number) 1 Fox Hill rd Floor/Space No. \_\_\_\_\_  
Owner or Tenant Town of Burlington Telephone No. \_\_\_\_\_  
Owner's Address SAM

EVERSOURCE Phone No. 888-633-3797

Purpose of Building School Utility Authorization No. \_\_\_\_\_  
This permit in conjunction with a building permit? Yes  No   
Existing Service \_\_\_\_\_ Amps \_\_\_\_\_ Volts \_\_\_\_\_ Overhead  Undgrd  No. of Meters 1  
New Service \_\_\_\_\_ Amps \_\_\_\_\_ Volts \_\_\_\_\_ Overhead  Undgrd  No. of Meters \_\_\_\_\_

Number of Feeders and Ampacity \_\_\_\_\_  
Location and Nature of Proposed Electrical Work: Generator replacement, mechanical room

No. of Recessed Luminaires	No. of Ceil.-Susp. (Paddle) Fans	No. of Transformers	Total KVA
No. of Luminaire Outlets	No. of Hot Tubs	Generators	45 KVA
No. of Luminaires	Swimming Pool Above <input type="checkbox"/> In-grnd. <input type="checkbox"/>	No. of Emergency Lighting Battery Units	
No. of Receptacle Outlets	No. of Oil Burners	FIRE ALARMS	No. of Zones
No. of Switches	No. of Gas Burners	No. of Detection and Initiating Devices	
No. of Ranges	No. of Air Cond.	No. of Alerting Devices	
No. of Waste Disposers	Heat Pump Number _____ Tons _____ KW _____ Totals: _____	No. of Self-Contained Detection/Alerting Devices	
No. of Dishwashers	Space/Area Heating KW	Local <input type="checkbox"/> Municipal <input type="checkbox"/> Other <input type="checkbox"/>	
No. of Dryers	Heating Appliances	Security Systems:*	No. of Devices or Equivalent
No. of Water Heaters	No. of Signs	Data Wiring:	No. of Devices or Equivalent
No. Hydromassage Bathtubs	No. of Motors	Telecommunications Wiring:	No. of Devices or Equivalent

OTHER: \_\_\_\_\_

ESTIMATED VALUE OF ELECTRICAL WORK: 9000.00 (MUST BE FILLED IN)

Work to start 9-29-16 INSPECTIONS TO BE REQUESTED IN ACCORDANCE WITH MEC RULE 10, AND UPON COMPLETION  
INSURANCE COVERAGE: Unless waived by the owner, no permit for the performance of electrical work may issue unless the licensee provides proof of liability insurance including "completed operation" coverage or its substantial equivalent. The undersigned certifies that such coverage is in force, and has exhibited proof of same to the permit issuing office.

MUST PROVIDE CERTIFICATE OF INSURANCE FOR WORKER'S COMP AND LIABILITY INSURANCE

I certify, under the pains and penalties of perjury, that the information on this application is true and complete.

EMAIL: \_\_\_\_\_ LIC. NO.: \_\_\_\_\_  
FIRM NAME: Dan Shimmel Signature: [Signature] LIC. NO: 08146

Licensee: Dan Shimmel Bus. Tel. No.: \_\_\_\_\_  
P.O. Box 394 Burlington MA 01803 Cell Tel. 781-985-0906

ADDRESS: P.O. Box 394 Burlington MA 01803 License: LIC. No.: \_\_\_\_\_  
\*Per MGL c147, s57-61, security work requires Department of Public Safety "S" License:  
OWNER'S INSURANCE WAIVER: I am aware that the Licensee does not have the liability insurance coverage normally required by law. By my signature below, I hereby waive this requirement. I am the (check one)  owner  owner's agent.

Owner/Agent \_\_\_\_\_ Telephone No. \_\_\_\_\_  
Signature \_\_\_\_\_ PERMIT FEE: \$ 11.00

NEW CONSTRUCTION \$25 MINIMUM INCLUDES NEW  
FEE SCHEDULE BASED ON ESTIMATED VALUE OF WORK \$10 PER \$1000.  
TENANT SPACE, LOW VOLTAGE, REINSPECTION. EXISTING BUILDINGS \$20 MINIMUM INCLUDES ELECTRICAL BOXES, SERVICE CHANGE, APPLIANCE REPLACEMENTS, SIGNS, and POOLS.



**252 FOX HILL RD**

39107

**COMMONWEALTH OF MASSACHUSETTS  
TOWN OF BURLINGTON****BUILDING PERMIT**

GIS#:	1182
Map:	9
Block:	47
Lot:	0
Category:	Commercial Alteration
Permit #	39107
Project #	JS-2017-000652
Est. Cost:	\$18,000.00
Fee Charged:	
Balance Due:	
Const. Class:	5B
Use Group:	E
Lot Size(sq. ft.):	1650924
Zoning:	RO
Units Gained:	
Units Lost:	
Occupancy Load:	
Dig Safe #:	

**PERMISSION IS HEREBY GRANTED TO:****Contractor:**Town of Burlington - Facilities  
*License:* Construction Supervisor - 45251**Owner:** TOWN OF BURLINGTON, FOX HILL SCHOOL**Applicant:** Town of Burlington - Facilities**AT:** 252 FOX HILL RD**Subdivision:****ISSUED ON:** 20-Jun-2017**AMENDED ON:****EXPIRES ON:****TO PERFORM THE FOLLOWING WORK:**

Install vinyl siding to portable classrooms and replace skirting with louverd vinyl

<b>Electric:</b>	<b>Gas:</b>	<b>Plumbing:</b>	<b>Building:</b>
Underground:	Underground:	Underground:	Excavation:
Service:	Meter:	Rough:	Footings:
Rough:	Rough:	Final:	Foundation:
Final:	Final:	Health:	Rough Frame:
Sheet Metal:	Fire:		Fireplace/Chimney:
Rough:	Oil:		Insulation:
Insulation:	Smoke:		Sheet Metal:
Above Ceiling:	Alarm:		Above Ceiling:
Final:	Sprinklers:		Final:

Call 781-273-7674 for all required inspections the day before the inspection is needed. Persons contracting with unregistered contractors do not have access to the guaranty fund (as set forth in MGL c. 142A).

Signature: \_\_\_\_\_

Date \_\_\_\_\_

Town Hall Annex - 25 Center Street, Phone:(781) 273-7674, Fax:(781) 238-4667, Email:building@burlington.org

GeoTMS® 2017, an ACCELA Company



252 FOX HILL RD FOX HILL ELEMENTARY SCH GP-2016-0188  
 COMMONWEALTH OF MASSACHUSETTS  
 TOWN OF BURLINGTON

ROUGH GAS INSPECTION NOTES



# GAS PERMIT

**PERMISSION IS HEREBY GRANTED TO:**

**Contractor:** Brandano P&H  
**License:** Master Plumber - 12306  
**Owner:** TOWN OF BURLINGTON, FOX HILL SCHOOL  
**Applicant:** Brandano P&H

GIS #: 1182  
 Map: 9  
 Block: 47  
 Lot: 0  
 Permit: Gas  
 Category: Appliance Replacement  
 Permit #: GP-2016-0188  
 Project #: JS-2016-000769  
 Est. Cost:  
 Fee Charged: \$45.00  
 Balance Due: \$0.00  
 # of Fixtures:

**Expires:**

**ISSUED ON:** 11-Jul-2016  
**AMENDED ON:**  
**EXPIRES ON:**

THIS APPLICATION SERVES AS THE PERMIT

THIS PAGE FOR INSPECTOR USE ONLY

**TO PERFORM THE FOLLOWING WORK:**

install gas boiler

**THIS PERMIT MAY BE REVOKED BY THE TOWN OF BURLINGTON UPON VIOLATION OF ANY OF ITS RULES AND REGULATIONS.**

Call 781-270-1618 or 781-273-7674 for all required inspections. Rough inspections require the plumber on site w/ current edition of 448 CMR The MA Fuel Gas & Plumbing Code.

Underground OK \_\_\_\_\_ Rough OK \_\_\_\_\_ Final OK \_\_\_\_\_

Yes  No

**Signature:**

**Fittings:**

Floor:	Type:	Receipt No:	# of Fittings	Floor:	Date Paid:	Check No:	Amount:	# of Fittings
	GAS08	REC-2016-001693			11-Jul-16	7244	\$45.00	
<b>FINAL INSPECTION NOTES</b>								

Town Hall Annex - 25 Center Street, Phone:(781) 273-7674, Fax:(781) 238-4667, Email:building@burlington.org



#252

MASSACHUSETTS UNIFORM APPLICATION FOR A PERMIT TO PERFORM GAS FITTING WORK



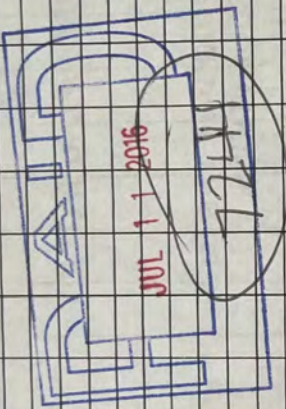
CITY BURLINGTON MA DATE 6-30-16 PERMIT # 12306

JOBSITE ADDRESS FOX HILL RD BURLINGTON MA OWNER'S NAME FOX HILL ELEMENTARY SCHOOL

OWNER ADDRESS FOX HILL RD BURLINGTON MA TEL 781-270-1741 FAX \_\_\_\_\_

NEW:  RENOVATION:  REPLACEMENT:  RESIDENTIAL  PLANS SUBMITTED: YES  NO

APPLIANCES	1	2	3	4	5	6	7	8	9	10	11	12	13	14
BOILER														
BOOSTER														
CONVERSION BURNER														
COOK STOVE														
DIRECT VENT HEATER														
DRYER														
FIREPLACE														
FRYOLATOR														
FURNACE														
GENERATOR														
GRILLE														
INFRARED HEATER														
LABORATORY COCKS														
MAKEUP AIR UNIT														
OVEN														
POOL HEATER														
ROOM / SPACE HEATER														
ROOF TOP UNIT														
TEST														
UNIT HEATER														
UNVENTED ROOM HEATER														
WATER HEATER														
OTHER														



INSURANCE COVERAGE

I have a current liability insurance policy or its substantial equivalent which meets the requirements of MGL, Ch. 142 YES  NO

IF YOU CHECKED YES, PLEASE INDICATE THE TYPE OF COVERAGE BY CHECKING THE APPROPRIATE BOX BELOW

LIABILITY INSURANCE POLICY  OTHER TYPE INDEMNITY  BOND

OWNER'S INSURANCE WAIVER: I am aware that the licensee does not have the insurance coverage required by Chapter 142 of the Massachusetts General Laws, and that my signature on this permit application waives this requirement.

CHECK ONE ONLY: OWNER  AGENT

SIGNATURE OF OWNER OR AGENT

I hereby certify that all of the details and information I have submitted or entered regarding this application are true and accurate to the best of my knowledge and that all plumbing work and installations performed under the permit issued for this application will be in compliance with all pertinent provisions of the Massachusetts State Plumbing Code and Chapter 142 of the General Laws.

PLUMBER-GASFITTER NAME MICHAEL J BRANDANO LICENSE # 12306 SIGNATURE [Signature]

MP  MGF  JP  JGF  LPGI  CORPORATION  # \_\_\_\_\_ PARTNERSHIP  # \_\_\_\_\_ LLC  # \_\_\_\_\_

COMPANY NAME BRANDANO PLUMBING & HEATING ADDRESS 65 R CLINTON ST

CITY MALDEN STATE MA ZIP 02148 TEL 781-324-7772

FAX 781-324-1415 CELL 781-727-1166 EMAIL BRANDANOPLUMBING-C.HOTMAIL.COM



252 FOX HILL RD FOX HILL SCHOOL

GP-2016-0099

COMMONWEALTH OF MASSACHUSETTS  
TOWN OF BURLINGTON



# GAS PERMIT

GIS #:	1182
Map:	9
Block:	47
Lot:	0
Permit:	Gas
Category:	New Appliance
Permit #	GP-2016-0099
Project #	JS-2016-000387
Est. Cost:	
Fee Charged:	\$45.00
Balance Due:	\$.00
# of Fixtures	

## PERMISSION IS HEREBY GRANTED TO:

**Contractor:** Gedick Bros Inc  
**License:** Master Plumber - 12752  
**Expires:**

**Owner:** TOWN OF BURLINGTON, FOX HILL SCHOOL

**Applicant:** Gedick Bros Inc

**AT:** 252 FOX HILL RD FOX HILL SCHOOL

**ISSUED ON:** 14-Apr-2016

**AMENDED ON:**

**EXPIRES ON:**

### TO PERFORM THE FOLLOWING WORK:

install gas generator

### THIS PERMIT MAY BE REVOKED BY THE TOWN OF BURLINGTON UPON VIOLATION OF ANY OF ITS RULES AND REGULATIONS.

Call 781-270-1618 or 781-273-7674 for all required inspections. Rough inspections require the plumber on site w/current edition of 248 CMR The MA Fuel Gas & Plumbing Code.

Underground OK \_\_\_\_\_ Rough OK \_\_\_\_\_ Final OK \_\_\_\_\_

**Signature:** \_\_\_\_\_

**Fittings:**

**Floor:**

Type:	# of Fittings	Floor:	Type:	# of Fittings
Fee Type: GAS08	Receipt No: REC-2016-000921	Date Paid: 14-Apr-16	Check No: ####	Amount: \$45.00





MASSACHUSETTS UNIFORM APPLICATION FOR A PERMIT TO PERFORM GAS FITTING WORK

CITY TOWN OF BURLINGTON MA DATE 4/13/14 PERMIT # \_\_\_\_\_  
 JOBSITE ADDRESS Foxhill Rd. (school) OWNER'S NAME TOWN OF BURLINGTON  
 OWNER ADDRESS \_\_\_\_\_ TEL \_\_\_\_\_ FAX \_\_\_\_\_  
 OCCUPANCY TYPE RESIDENTIAL EDUCATIONAL \_\_\_\_\_  
 COMMERCIAL \_\_\_\_\_

RENOVATION: REPLACEMENT: PLANS SUBMITTED: YES NO  
 NEW: FLOORS: 1 2 3 4 5 6 7 8 9 10 11 12 13 14

APPLIANCES TO BE INSTALLED	BSM	1	2	3	4	5	6	7	8	9	10	11	12	13	14
BOILER															
BOOSTER															
CONVERSION BURNER															
COOK STOVE															
DIRECT VENT HEATER															
DRYER															
FIREPLACE															
FRYOLATOR															
FURNACE															
GENERATOR															
GRILLE															
INFRARED HEATER															
LABORATORY COCKS															
MAKEUP AIR UNIT															
OVEN															
POOL HEATER															
ROOM / SPACE HEATER															
ROOF TOP UNIT															
TEST															
UNIT HEATER															
UNVENTED ROOM HEATER															
WATER HEATER															
OTHER															

**FEE SCHEDULE**  
 \$45 Minimum for 1st three (3) fixtures plus \$15 for each additional fixture/appliance /device  
 Reinspection Fee: \$45

I have a current liability insurance policy or its substantial equivalent which meets the requirements of MGL, Ch. 142  YES  NO

IF YOU CHECKED YES, PLEASE INDICATE THE TYPE OF COVERAGE BY CHECKING THE APPROPRIATE BOX BELOW

LIABILITY INSURANCE POLICY  OTHER TYPE INDEMNITY  BOND

OWNER'S INSURANCE WAIVER: I am aware that the licensee does not have the insurance coverage required by Chapter 142 of the Massachusetts General Laws, and that my signature on this permit application waives this requirement.

CHECK ONE ONLY: OWNER  AGENT

SIGNATURE OF OWNER OR AGENT \_\_\_\_\_

I hereby certify that all of the details and information I have submitted or entered regarding this application are true and accurate to the best of my knowledge and that all plumbing work and installations performed under the permit issued for this application will be in compliance with all Pertinent provision of the Massachusetts State Plumbing Code and Chapter 142 of the General Laws.

PLUMBER GASFITTER NAME Paul Gerard LICENSE # 12752 SIGNATURE \_\_\_\_\_  
 MP  MGF  JP  JGF  LPGI  CORPORATION # 3001 PARTNERSHIP # \_\_\_\_\_ LLC # \_\_\_\_\_  
 COMPANY NAME: Gerard Bros ADDRESS PO Box 356  
 CITY Burlington STATE/MA ZIP 01803 TEL 272-227  
 FAX \_\_\_\_\_ CELL \_\_\_\_\_ EMAIL \_\_\_\_\_



# 252 FOX HILL RD Fox Hill School, Roof

36592

COMMONWEALTH OF MASSACHUSETTS  
TOWN OF BURLINGTON



## BUILDING PERMIT

GIS#:	1182
Map:	9
Block:	47
Lot:	0
Category:	Commercial Alteration
Permit #	36592
Project #	JS-2015-000640
Est. Cost:	\$881,200.00
Fee Charged:	
Balance Due:	
Const. Class:	2B
Use Group:	E
Lot Size(sq. ft.):	1650924
Zoning:	RO
Units Gained:	
Units Lost:	
Occupancy Load:	
Dig Safe #:	

### PERMISSION IS HEREBY GRANTED TO:

**Contractor:**

**License:**

Construction Supervisor - 66217

Gibson Roofs Inc

**Owner:** TOWN OF BURLINGTON, FOX HILL SCHOOL

**Applicant:** Gibson Roofs Inc

**AT:** 252 FOX HILL RD Fox Hill School, Roof

**Subdivision:**

**ISSUED ON:** 23-Jun-2015

**AMENDED ON:**

**EXPIRES ON:**

### TO PERFORM THE FOLLOWING WORK:

Strip down to deck & reroof with Carlisle EPDM fully adhered roofing system

<b>Electric:</b>	<b>Gas:</b>	<b>Plumbing:</b>	<b>Building:</b>
Underground:	Underground:	Underground:	Excavation:
Service:	Meter:	Rough:	Footings:
Rough:	Rough:	Final:	Foundation:
Final:	Final:	Health:	Rough Frame:
Sheet Metal:	Fire:		Fireplace/Chimney:
Rough:	Oil:		Insulation:
Insulation:	Smoke:		Sheet Metal:
Above Ceiling:	Alarm:		Above Ceiling:
Final:	Sprinklers:		Final:

Call 781-270-1615 for all required inspections the day before the inspection is needed. Persons contracting with unregistered contractors do not have access to the guaranty fund (as set forth in MGL c. 142A).

Signature: \_\_\_\_\_

Date \_\_\_\_\_



CONSTRUCTION CONTROL AFFIDAVIT



354414

TOWN OF BURLINGTON

Office of Inspector of Buildings - Town Hall Annex - 25 Center Street  
Burlington, Massachusetts 01803  
(781) 270-1615 (781) 238-4691 FAX WWW.BURLINGTON.ORG

252

PROJECT LOCATION Fox Hill Road, Burlington, MA 01803 JOB NO. S119414-X  
PROJECT NAME Fox Hill Elementary School Partitions Installation  
NATURE OF PROJECT Demolish existing offices to create a new classroom. Add 2 new time out rooms.  
ARCHITECT AND/OR ENGINEER Knight, Bagge & Anderson, Inc.  
ADDRESS 6 Thirteenth Street, Charlestown, MA 02129 TELEPHONE NO. 617-241-2807

In accordance with Section 110 and 116.0 of the Massachusetts State Building Code, I, Kevin J. Buckley, AIA  
Registration No. 5506 being a registered professional engineer/architect, hereby certify that I have prepared or directly supervised the  
preparation of all design plans, computations and specifications concerning:

- ENTIRE PROJECT
- MECHANICAL
- OTHER
- ARCHITECTURAL
- FIRE PROTECTION
- STRUCTURAL
- ELECTRICAL

For the above named project and that, to the best of my knowledge, such plans, computations and specifications meet the applicable provisions of the Massachusetts State Building Code, all accepted engineering practices and applicable laws and ordinances for the proposed use and occupancy. I further certify that I shall perform the necessary professional services and be present on the construction site on a regular and periodic basis to determine that the work is proceeding in accordance with the documents approved for the building permit and shall be responsible for the following as specified in Section 116.2.

- Review of shop drawings, samples and other submittals of the contractor as required by the construction contract documents as submitted for building permit, and approval for conformance to the design concept.
- Review and approval of the quality control procedures for all code-required controlled materials.
- Special architectural or engineering professional inspection of critical construction components requiring controlled materials or construction specified in the accepted engineering practice standards listed in Appendix G.

Pursuant to Section 116.2.2, I shall submit periodically,  daily,  weekly, or  other periods (specify) progress reports together with pertinent comments to the Town of Burlington Building Department.

Upon completion of the work, architect, and/or engineers shall submit final affidavits as to the satisfactory completion and readiness of the project for occupancy.

Subscribed and sworn to before me this 7<sup>th</sup> day of July, 2014.

Signature Kevin Buckley



Notary Public Michael Wilkin

My Commission Expires 7/30/15



**252 FOX HILL RD**

34540

**COMMONWEALTH OF MASSACHUSETTS  
TOWN OF BURLINGTON****BUILDING PERMIT**

GIS#:	1182
Map:	9
Block:	47
Lot:	0
Category:	Miscellaneous
Permit #	34540
Project #	JS-2013-000935
Est. Cost:	\$25,900.00
Fee Charged:	\$0.00
Balance Due:	\$ .00
Const. Class:	5B
Use Group:	U
Lot Size(sq. ft.):	1650924
Zoning:	RO
Units Gained:	
Units Lost:	
Occupany Load:	
Dig Safe #:	

**PERMISSION IS HEREBY GRANTED TO:****Contractor:** \_\_\_\_\_**License:** \_\_\_\_\_

Childscapes

**Owner:** TOWN OF BURLINGTON, BURLINGTON HIGH SCHOOL,**Applicant:** Childscapes**AT:** 252 FOX HILL RD**Subdivision:** \_\_\_\_\_**ISSUED ON:** 28-Aug-2013**AMENDED ON:** \_\_\_\_\_**EXPIRES ON:** \_\_\_\_\_**TO PERFORM THE FOLLOWING WORK:**

Construct 21' x 21' Pavillion at playground area

<b>Electric:</b>	<b>Gas:</b>	<b>Plumbing:</b>	<b>Building:</b>
Underground:	Underground:	Underground:	Excavation:
Service:	Meter:		Footings:
Rough:	Rough:	Rough:	Foundation:
Final:	Final:	Final:	Rough Frame:
Sheet Metal:	Fire:	Health:	Fireplace/Chimney:
Rough:	Oil:		Insulation:
Insulation:	Smoke:		Sheet Metal:
Above Ceiling:	Alarm:		Above Ceiling:
Final:	Sprinklers:		Final:

Call 781-273-7674 for all required inspections the day before the inspection is needed. Persons contracting with unregistered contractors do not have access to the guaranty fund (as set forth in MGL c. 142A).

Signature: \_\_\_\_\_

Date \_\_\_\_\_

Town Hall Annex - 25 Center Street, Phone:(781) 270-1615, Fax:(781) 238-4691, Email:building@burlmass.org  
 GeoTMS® 2013 Des Lauriers Municipal Solutions, Inc.



OFFICE USE ONLY: Man 9 Parcel 47

1.6.15

### 252 FOX HILL RD

GIS#:	1182
Map:	9
Block:	47
Lot:	0
Category:	Commercial Alteration
Permit #	34366
Project #	JS-2013-000751
Est. Cost:	\$139,850.00
Fee Charged:	
Balance Due:	
Const. Class:	2B
Use Group:	E
Lot Size(sq. ft.):	1650924
Zoning:	RO
Units Gained:	
Units Lost:	
Occupany Load:	
Dig Safe #:	

34366

## COMMONWEALTH OF MASSACHUSETTS TOWN OF BURLINGTON



# BUILDING PERMIT

### PERMISSION IS HEREBY GRANTED TO:

**Contractor:** Casby Bros Inc  
**License:** Construction Supervisor - 22155

**Owner:** TOWN OF BURLINGTON, FOX HILL SCHOOL

**Applicant:** Casby Bros Inc

**AT:** 252 FOX HILL RD

**Subdivision:**

**ISSUED ON:** 16-Jul-2013 **EXPIRES ON:**

### TO PERFORM THE FOLLOWING WORK:

Remodel lobby/main office

Electric:	Gas:	Plumbing:	Building:
Underground:	Underground:	Underground:	Excavation:
Service:	Meter:	Rough:	Footings:
Rough:	Rough:	Final:	Foundation:
Final:	Final:	Health:	Rough Frame:
Sheet Metal:	Fire:		Fireplace/Chimney:
Rough:	Oil:		Insulation:
Insulation:	Smoke:		Sheet Metal:
Above Ceiling:	Alarm:		Above Ceiling:
Final:	Sprinklers:		Final:

Call 781-273-7674 for all required inspections the day before the inspection is needed. Persons contracting with unregistered contractors do not have access to the guaranty fund (as set forth in MGL c. 142A).

Signature: \_\_\_\_\_ Date \_\_\_\_\_

Town Hall Annex - 25 Center Street, Phone:(781) 270-1615, Fax:(781) 238-4691, Email:building@burlmass.org

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252 FOX HILL RD

PP-2009-0185

COMMONWEALTH OF MASSACHUSETTS  
TOWN OF BURLINGTON



PLUMBING PERMIT

GIS #:	1182
Map:	9
Block:	47
Lot:	0
Permit:	Plumbing
Category:	New Appliance
Permit #	PP-2009-0185
Project #	JS-2009-000663
Est. Cost:	\$0.00
Fee Charged:	\$0.00
Balance Due:	\$0.00
# of Fixtures:	

PERMISSION IS HEREBY GRANTED TO:

**Contractor:** Gedick Bros Inc **License:** Master Plumber & Gasfitter - 8209 **Expires:**

**Owner:** TOWN OF BURLINGTON, FOX HILL SCHOOL

**Applicant:** Gedick Bros Inc

**AT:** 252 FOX HILL RD

**ISSUED ON:** 07-Aug-2009

**AMENDED ON:** **EXPIRES ON:**

**TO PERFORM THE FOLLOWING WORK:**

Install grease trap

**THIS PERMIT MAY BE REVOKED BY THE TOWN OF BURLINGTON UPON VIOLATION OF ANY OF ITS RULES AND REGULATIONS.**

Call 781-270-1618 or 781-273-7674 for all required inspections. All rough inspections require the plumber on site w/current edition of 248 CMR the MA Fuel Gas & Plumbing Code.

Underground OK            Rough OK            Final OK           

**Signature:** \_\_\_\_\_

<b>Fee Type:</b> PLUM08	<b>Receipt No:</b> REC-2009-001325	<b>Date Paid:</b> 04-Aug-09	<b>Check No:</b> Waived	<b>Amount:</b> \$0.00
----------------------------	---------------------------------------	--------------------------------	----------------------------	--------------------------



Town of Burlington \* Glenn Paparo, Inspector \* 781.270.1618 \* Fax 781.238.4691  
 MASSACHUSETTS UNIFORM APPLICATION FOR PERMIT TO DO PLUMBING



**BURLINGTON**

Building Location 252 Fox Hill Rd Mass Date 8/4/09 Owners Name Fox Hill  
 Type of Occupancy School

New  Renovation  Replacement  Plans Submitted: Yes  No

**P**

**FEE SCHEDULE**  
 \$45 Minimum for  
 1" three (3)  
 fixtures plus \$15  
 for each add'l  
 fixture/appliance  
 /device  
 Reinspection Fee: \$45

**RECEIVED**  
 AUG 14 2009  
 BURLINGTON BUILDING  
 DEPARTMENT

Total No. of Fixtures		7" Water Meter	
Total Fee \$		OTHER FIXTURES	
SUB-BSMT		BACKFLOW PREVENTOR	
BASEMENT		ROOF DRAINS	
1ST FLOOR		WATER PIPING	
2ND FLOOR		AREA DRAIN	
3RD FLOOR		DRINKING FOUNTAIN	
4TH FLOOR		URINALS	
5TH FLOOR		GAS TRAPS	
6TH FLOOR		FLOOR DRAINS	
7TH FLOOR		SLOP SINKS	
8TH FLOOR		TANKLESS	
		HOT WATER TANKS	
		WASH MACH CONN.	
		LAUNDRY TRAYS	
		DISPOSERS	
		DISHWASHERS	
		SHOWER STALLS	
		BATHUBS	
		LAVATORIES	
		KITCHEN SINKS	
		WATER CLOSERS	

Installing Company Name Beddek Bros Inc Check One:  Corporation 3001 Certificate  
 Address: P.O. Box 356  Partnership  
 Business Telephone 781-272-2277 Cell Donal Beddek  Firm/Co.

**INSURANCE COVERAGE**  
 I have a current liability insurance policy or its substantial equivalent which meets the requirements of MGL Ch 142.  
 Yes  No   
 If you have checked yes, please indicate the type coverage by checking the appropriate box.  
 A liability insurance policy  Other type of indemnity  Bond   
**OWNERS INSURANCE WAIVE** I am aware that the licensee does not have the insurance coverage required by chapter 142 of the Mass. General Laws, and that my signature on this permit application waives this requirement.  
 Check one:  Owner  Agent

Signature of Owner or Owner's Agent

I hereby certify that all of the details and information I have submitted (or entered) in above application are true and accurate to the best of my knowledge and that all plumbing work and installations performed under the permit issued for this application will be in compliance with all pertinent provisions of the Massachusetts State Gas Code and Chapter 142 of the general laws.

Mail to:  
 Plumbing & Gas Inspector  
 Burlington Building Department  
 25 Center Street  
 Burlington, MA 01803

Type of License  
 Plumber  
 Gas Fitter  
 Master  
 Journeyman  
 Signature of Licensed Plumber or Gas Fitter Donal Beddek  
 License Number 8209

EMAIL ADDRESS:

OWNER'S INSURANCE WAIVE  
 required by law. By my signature below, I hereby waive this requirement.  
 Owner/Agent Signature \_\_\_\_\_ Telephone No. \_\_\_\_\_  
**PERMIT FEE: \$ 0**



Map 9 Parcel 47

JS-2000-1062

PAID  Check #  Cash

Date Issued 3/16/00 Permit No.

22350



# APPLICATION FOR BUILDING PERMIT

# B

**TOWN OF BURLINGTON**  
TOWN HALL ANNEX - 25 CENTER STREET  
BURLINGTON, MASSACHUSETTS 01803  
Telephone 781-270-1615 Fax 781-270-1608

*—SUBMIT THIS APPLICATION WITH THREE (3) SETS OF CONSTRUCTION DRAWINGS & PLOT PLAN*

**RECEIVED**

COST OF CONSTRUCTION: \$84,347.00

SEE REVERSE FOR FEE SCHEDULE

BUILDING PERMIT FEE: \$

MAR 15 2000

PLAN REVIEW FEE: \$

TOTAL PERMIT FEE: \$

ZONING DISTRICT: \_\_\_\_\_  
CONSTRUCTION TYPE: \_\_\_\_\_  
USE GROUP: \_\_\_\_\_  
SQUARE FOOTAGE OF CONSTRUCTION: \_\_\_\_\_

BUILDING DEPT.

## CONSTRUCTION PROJECT INFORMATION

**LOCATION** (Street, Space No, Floor) 252 Fox Hill Road

**PROPERTY OWNER** Town of Burlington

TEL No. (781)-270-1800

ADDRESS 29 Center Street, Burlington, MA

Street / Suite or Space / City / State / Zip

Check here if same as owner  
**NAME OF TENANT** Fox Hill School

TEL No. (781)-270-1791

**NEW BUILDING**  **ADDITION**  **ALTERATION**  **FOUNDATION**  **DEMOLITION**

**BUILDING / ADDITION DIMENSIONS:** HEIGHT TO HIGHEST PART OF ROOF \_\_\_\_\_ LENGTH \_\_\_\_\_ DEPTH \_\_\_\_\_ HEIGHT \_\_\_\_\_ LOT AREA: \_\_\_\_\_ SQ FT

**NO. OF STORIES** \_\_\_\_\_ **ROOF TYPE**  Flat  Gable  Hip  Mansard  Shed  Other \_\_\_\_\_

**FOUNDATION DEPTH / THICKNESS / TYPE** \_\_\_\_\_ **TYPE OF HEAT/FUEL**  Hot Water  Warm Air  Steam  Resistance Oil  Gas  
**TYPE OF SOURCE**  Electric  Coal  Other \_\_\_\_\_

**BUILDING SETBACKS** FROM PROPERTY LINES: Front \_\_\_\_\_ Side Right \_\_\_\_\_ Side Left \_\_\_\_\_ Rear \_\_\_\_\_

## DESCRIPTION OF WORK

Installation of playground equipment from Landscape Structures, Inc. of Delano, MN. Three individual play structures, covering a 10,000 sq. ft. area.

## GENERAL CONTRACTOR INFORMATION

**DBA NAME:** Town of Burlington Recreation Department Tel No. (781)-270-1695

**ADDRESS:** 61 Center Street, Burlington, MA 01803

Construction Supervisor's Name: Doug Gillingham LICENSE No.: \_\_\_\_\_ EXP DATE: \_\_\_\_\_

**Home Improvement Contractor** Name: \_\_\_\_\_ REG No.: \_\_\_\_\_ EXP DATE: \_\_\_\_\_

Address: \_\_\_\_\_ Workers Compensation Insurance: \_\_\_\_\_ EXP DATE: \_\_\_\_\_

**ARCHITECT / ENGINEER:** \_\_\_\_\_ REG. No. \_\_\_\_\_ EXP DATE: \_\_\_\_\_

ADDRESS: \_\_\_\_\_ Tel. No. \_\_\_\_\_

I hereby declare that the statements and information on the foregoing are true and accurate, to the best of my knowledge and belief, signed under the pains and penalties of perjury.

*Douglas Gillingham*  
SIGNATURE OF OWNER / AGENT

3/15/00

Date



PERMIT NO.

EP-1999-

794

# TOWN OF BURLINGTON CERTIFICATE OF OCCUPANCY

Building Permit Number 703

Certificate Issued — Date / /

Date 8/16/93

Contractor

Applicant P. OBRIGT

Address 17 CHURCH LN. BURL

Phone 273 3463

Permit to REMODEL & ALTER  
(Type of Improvement)

Use H.C. ACCESSIBLE BATHROOM  
(Proposed Use)

Number of dwelling units

At location FOXHILL  
(No.)

SCHOOL  
(Street)

Zoning District R0

Name of Premise FOXHILL RD.

Subdivision \_\_\_\_\_  
(Name)

Assessors Plate # \_\_\_\_\_ Parcel # \_\_\_\_\_ Lot Size \_\_\_\_\_  
Sq. Ft.

Building is to be \_\_\_\_\_ wide by \_\_\_\_\_

ft. in height and shall conform in

Construction to type \_\_\_\_\_

ment walls or foundation \_\_\_\_\_  
(Type)

Foundation walls damproofed \_\_\_\_\_

Total floor area in square ft. \_\_\_\_\_

story \_\_\_\_\_ 2nd story \_\_\_\_\_

Owner TOWN OF BURLINGTON

Signed by Francis R. Moran, Insp. of Bldg.

Address 29 CENTER ST BURL.

**NOTICE — BUILDING NOT TO BE OCCUPIED UNTIL THIS  
CERTIFICATE IS SIGNED BY THE INSP. OF BLDGS.**

This copy to be retained in Building

[See Reverse Side]

S-T 4080

252 FOXHILL ROAD



Signature

SEWER

FOUND

H.V.L.

FIRE

ENERG

ELEVAT

ELECT

PLUMB

STRUC

SPRIN

ARCHIT

PROPO

CERTIF

PROFF

STRUC

DISTY

LINE

DISTY

SUBJH

ARCHI

BOARR

BOARR

WETTL

FLOOD

SPEC

SITE

FORMATION





MASSACHUSETTS UNIFORM APPLICATION FOR PERMIT TO DO GASFITTING

(Print or Type) **BURLINGTON** PERMIT NO. **GP-1999-266**

Date **9-16-99** Owner's Name **Town of Burlington**  
Building Location **Fox Hill School** Type of Occupancy **Boiler**

New  Replacement  Plans Submitted: Yes  No

	RANGES	HEATER RANGES	Ovens	GRILLES	HEATING BOILERS	FURNACES	UNIT HEATERS	WATER HEATERS	DRYERS	GAS GENERATORS	LABORATORY COCKS	CONVERSION BURNERS	ROOF TOP UNITS	VENTED ROOM HTRS.	DIRECT VENT HTRS.	POOL HEATERS	TESTS	OTHER	
SUB-BASMT.																			
BASEMENT																			
1ST FLOOR																			
2ND FLOOR																			
3RD FLOOR																			
4TH FLOOR																			
5TH FLOOR																			
6TH FLOOR																			
7TH FLOOR																			
8TH FLOOR																			

INSPECTIONS

Rough OK  Initials / Date \_\_\_\_\_  
Final OK

Installing Company Name **Performance Heating Co.** Check one: Certificate   
Address **4 Dennis Dr. Burlington MA 01803** Corporation   
Business Telephone **781 273-5022** Partnership   
Name of Licensed Plumber or Gas Fitter \_\_\_\_\_ Firm/Co.

**INSURANCE COVERAGE:**  
I have a current liability insurance policy or its substantial equivalent which meets the requirements of MGL Ch. 142.  
Yes  No   
If you have checked yes, please indicate the type coverage by checking the appropriate box.  
A liability insurance policy  Other type of indemnity  Bond   
**OWNER'S INSURANCE WAIVER:** I am aware that the licensee does not have the insurance coverage required by Chapter 142 of the Mass. General Laws, and that my signature on this permit application waives this requirement.  
Check one: Owner  Agent   
Signature of Owner or Owner's Agent \_\_\_\_\_

I hereby certify that all of the details and information I have submitted (or entered) in above application are true and accurate to the best of my knowledge and that all plumbing work and installations performed under the permit issued for this application will be in compliance with all pertinent provisions of the Massachusetts State Gas Code and Chapter 142 of the General Laws.

FOR OFFICE USE ONLY	
<b>FEE SCHEDULE</b>	
\$25.00 MINIMUM FOR 1st THREE (3)	
FIXTURES PLUS \$5.00 FOR EACH ADDITIONAL	
FIXTURE / APPLIANCE / DEVICE	
TOTAL FIXTURES	
TOTAL COST	\$

Type of License:  
 Plumber  
 Gasfitter  
 Master  
 Journeyman

Signature of Licensed Plumber or Gas Fitter \_\_\_\_\_  
License Number **10815**

RECEIVED  
SEP 20 1999  
BUILDING DEPT.

Ready for Inspection  
Date \_\_\_\_\_ Will Call \_\_\_\_\_  
FINAL INSPECTIONS ARE MANDATORY



TOWN OF BURLINGTON APPLICATION FOR BUILDING PERMIT

252 FOXHILL ROAD

170-1608



The Commonwealth of Massachusetts  
Department of Public Safety

Permit No. 187  
Occupancy & Fee Checked  
3/9/90 (leave blank)

BOARD OF FIRE PREVENTION REGULATIONS 527 CMR 12:00

APPLICATION FOR PERMIT TO PERFORM ELECTRICAL WORK

All work to be performed in accordance with the Massachusetts Electrical Code, 527 CMR 12:00  
(PLEASE PRINT IN INK OR TYPE ALL INFORMATION)  
City or Town of Burlington

Date 4/12/94  
To the Inspector of Wires:

The undersigned applies for a permit to perform the electrical work described below.

Location (Street & Number) Fox Hill Road  
Owner or Tenant Fox Hill School  
Owner's Address Fox HILL Road

RECEIVED

APR 28 1994

Is this permit in conjunction with a building permit: Yes  No  (Check Appropriate Box)  
Purpose of Building school Utility Authorization No. \_\_\_\_\_

Existing Service \_\_\_\_\_ Amps \_\_\_\_\_ Volts Overhead  Undgrnd  No. of Meters \_\_\_\_\_  
New Service \_\_\_\_\_ Amps \_\_\_\_\_ Volts Overhead  Undgrnd  No. of Meters \_\_\_\_\_

Number of Feeders and Ampacity \_\_\_\_\_  
Location and Nature of Proposed Electrical Work Fluorescent fixtures- ballast and lamp replace

No. of Lighting Outlets	No. of Hot Tubs	No. of Transformers	Total KVA
No. of Lighting Fixtures	Swimming Pool <input type="checkbox"/> Above grnd. <input type="checkbox"/> In-grnd <input type="checkbox"/>	Generators	KVA
No. of Receptacle Outlets	No. of Oil Burners	No. of Emergency Lighting Battery Units	
No. of Switch Outlets	No. of Gas Burners	FIRE ALARMS	No. of Zones
No. of Ranges	No. of Air Cond.	No. of Detection and Initiating Devices	
No. of Disposals	Heat Pumps Total Tons	No. of Sounding Devices	
No. of Dishwashers	Space/Area Heating KW	No. of Self Contained Detection/Sounding Devices	
No. of Dryers	Heating Devices KW	Local <input type="checkbox"/> Municipal <input type="checkbox"/> Other <input type="checkbox"/>	
No. of Water Heaters KW	No. of Signs	Low Voltage Wiring	
No. of Hydro Massage Tubs	No. of Motors Total HP		

COMPLETED

INSURANCE COVERAGE: Pursuant to the requirements of Massachusetts general Laws I have a current Liability Insurance Policy including Completed Operations Coverage or its substantial equivalent. YES  NO  I have submitted valid proof of same to the Office. YES  NO  If you have checked YES, please indicate the type of coverage by checking the appropriate box.  
INSURANCE  BOND  OTHER  (Please Specify) \_\_\_\_\_ (Expiration Date)

Estimated Value of Electrical Work \$ 3500.00  
Work to Start 4/14/94 Inspection Date Requested: \_\_\_\_\_ Rough \_\_\_\_\_ Final \_\_\_\_\_

Signed under the Signatures of Lighting Retrofit Services/ Kenneth B. Young  
FIRM NAME Lighting Retrofit Services/ Kenneth B. Young LIC. NO. 14286A  
Licensoo Kenneth B. Young Jr./IRS Signaturo Kenneth B. Young Jr. Bus. Tol. No. 617-245-5600  
Alt. Tol. No. \_\_\_\_\_

Address 50 New Salem Street, Wakefield, MA 01880  
OWNER'S INSURANCE WAIVER: I am aware that the Licensoo does not have the insurance coverage or its substantial equivalent as required by Massachusetts General Laws, and that my signature on this permit application waives this requirement. Owner Agent  
(Pleasea check one)

(Signature of Owner or Agent) \_\_\_\_\_ Telephone No. \_\_\_\_\_ PERMIT FEE \$ \_\_\_\_\_ x-6565



*address to file?*

310 CMR 10.99

Form 2

RECEIVED

JUL 26 1993

Commonwealth of Massachusetts  
BUILDING DEPT.

93 JUL 23 PM 2:41 (To be provided by DEP)

TOWN OF BURLINGTON  
TOWN CLERK  
BURLINGTON  
City/Town  
Burlington  
Conservation Dept.

DEP File No.

Date Request Filed 7/12/93



### Determination of Applicability Massachusetts Wetlands Protection Act, G.L. c. 131, §40

From The Burlington Conservation Commission Issuing Authority

To Town of Burlington, Conservation Same  
(Name of person making request) (Name of property owner)

Address 29 Center Street Address  
Burlington, Ma 01803

This determination is issued and delivered as follows:

- by hand delivery to person making request on 7/23/93 (date)
- by certified mail, return receipt requested on \_\_\_\_\_ (date)

Pursuant to the authority of G.L. c. 131, §40, the Conservation Commission has considered your request for a Determination of Applicability and its supporting documentation, and has made the following determination (check whichever is applicable):

Location: Street Address Between Fox Hill Elementary School & Sawmill Brook  
Lot Number: Map #9, Parcel #47,64,65

- 1.  The area described below, which includes all/part of the area described in your request, is an Area Subject to Protection Under the Act. Therefore, any removing, filling, dredging or altering of that area requires the filing of a Notice of Intent.

- 2.  The work described below, which includes all/part of the work described in your request, is within an Area Subject to Protection Under the Act and will remove, fill, dredge or alter that area. Therefore, said work requires the filing of a Notice of Intent.

Effective 11/01/89

EAJP:ela



Page 2 of 4.  
Determination of Applicability: Fox Hill School & Sawmill Brook

- 3.  The work described below, which includes all/part of the work described in your request, is within the Buffer Zone as defined in the regulations, and will alter an Area Subject to Protection Under the Act. Therefore, said work requires the filing of a Notice of Intent.

This Determination is negative:

- 1.  The area described in your request is not an Area Subject to Protection Under the Act.
- 2.  The work described in your request is within an Area Subject to Protection Under the Act, but will not remove, fill, dredge, or alter that area. Therefore, said work does not require the filing of a Notice of Intent.
- 3.  The work described in your request is within the Buffer Zone, as defined in the regulations, but will not alter an Area Subject to Protection Under the Act. Therefore, said work does not require the filing of a Notice of Intent.
- 4.  The area described in your request is Subject to Protection Under the Act, but since the work described therein meets the requirements for the following exemption, as specified in the Act and the regulations, no Notice of Intent is required:

Issued by Burlington Conservation Commission

Signature(s) Catherine O. LeBlanc

Catherine O. LeBlanc  
Secretary

This Determination must be signed by a majority of the Conservation Commission.

On this 22<sup>nd</sup> day of July 19 93, before me personally appeared Catherine O. LeBlanc, to me known to be the person described in, and who executed, the foregoing instrument, and acknowledged that he/she executed the same as his/her free act and deed.

Marie J. Marche  
Notary Public My Commission Expires 11/25/94

This Determination does not relieve the applicant from complying with all other applicable federal, state or local statutes, ordinances, by-laws or regulations. This Determination shall be valid for three years from the date of issuance.

The applicant, the owner, any person aggrieved by this Determination, any owner of land abutting the land upon which the proposed work is to be done, or any ten residents of the city or town in which such land is located, are hereby notified of their right to request the Department of Environmental Protection to issue a Superceding Determination of Applicability, providing the request is made by certified mail or hand delivery to the Department, with the appropriate filing fee and fee transmittal form as provided in 310 CMR 10.03(7) within ten days from the date of issuance of this Determination. A copy of the request shall at the same time be sent by certified mail or hand delivery to the Conservation Commission and the applicant.





# TOWN OF BURLINGTON

BURLINGTON, MASSACHUSETTS 01803  
TOWN HALL 270-1600 FAX 270-1608

RECEIVED  
TOWN OF BURLINGTON

Page 3 of 4.  
93 JUL 23 PM 2:42

TOWN CLERK  
BURLINGTON, MA

## BURLINGTON BY-LAW ARTICLE 22 DETERMINATION OF APPLICABILITY

**APPLICANT:** Town of Burlington  
**ADDRESS:** 29 Center Street, Burlington MA 01803  
**LOCATION:** Fox Hill School - Sawmill Brook Conservation Area  
**ASSESSOR'S MAP/PARCEL:** Map 9, Parcels 47, 64, & 65  
**PROPERTY OWNER:** Town of Burlington

**DATE OF DECISION:** July 23, 1993

### DECISION

The Burlington Conservation Commission voted to issue a Negative Determination of Applicability with conditions, as noted below, for a proposed footpath that connects two existing trails on land lying between the Fox Hill School and the Sawmill Brook Conservation Area.

1. There shall be no permanent removal of any vegetation in the bordering vegetated wetlands. Shrubs, trees, and herbaceous plants may be pruned to permit for a better foot path. No plants may be excavated or uprooted under this decision.
2. The Conservation Commission finds that the bordering vegetated wetlands will not be altered by a limited pruning of the vegetation sufficient to provide a foot path to connect existing trails on the land.
3. In the event a board walk is needed to improve the trail through the vegetated wetlands a separate application must be filed with the Conservation Commission showing the work and the methods to be used to protect the wetlands.
4. Nothing in this decision is intended to permit any change in grade that will increase flooding. Portions of the trail may fall within bordering land subject to flooding.
5. Pruned material shall be cut into small pieces, spread thinly, and may be left within the general area of the trail work.
6. The work within the bordering vegetated wetlands shall be supervised by the Conservation Administrator or Conservation Commission. Supervision shall be deemed to be regular visits to the site, with a record kept of such visit, and a review of pruning and clearing activities.



APPLICATION FOR PERMIT TO ... NO FEE

Burlington By-laws Article 22 - Wetlands Determination of Applicability; Fox Hill School - Sawmill Brook Page 4 of 4. July 22, 1993

ISSUED BY:  
BURLINGTON CONSERVATION COMMISSION:

*Constance J. Gorman*

*Jed A. Crosby*

*Gary Olson*

*Catherine O'Connell*

*Cynthia L. Boudreau*

On this 22nd day of July, 1993, before me personally appeared Catherine O'Connell, to me known to be the person described in, and who executed, the foregoing instrument, and acknowledge that she/he executed the same as her/his free act and deed.

*Mrs. J. Monahan*  
Notary Public

11/25/94  
My Commission Expires

NOTE: The applicant is advised that the submission of incomplete or inaccurate information, or a failure to comply with the work specified as may be conditioned herein may result in a violation of the Wetlands Protection Act, Massachusetts General Laws Chapter 131, Section 40 and Burlington By-laws Article 22. Enforcement of the laws can include seeking a fine of not more than \$25,000 for the violation pursuant to MGL c. 131, s. 40 as well as criminal or non-criminal penalties under the By-law.

This Determination does not relieve the applicant from complying with all other applicable federal, state, or local statutes, ordinances, by-laws or regulations.

Appeals from this permit must be filed in the Superior Court in accordance with the provisions of MGL Chap. 249, Section 4.









TOWN OF BURLINGTON

BURLINGTON, MASSACHUSETTS 01803

TOWN HALL 272-6700

14465

AFFIDAVIT

As a result of the provisions of MGL c 40, S54, I acknowledge that as a condition of Building Permit Number \_\_\_\_\_ all debris resulting from the construction activity governed by this Building Permit shall be disposed of in a properly licensed solid waste disposal facility, as defined by MGL c 111, S 150A.

I certify that I will notify the Building Official by September 30, 1989 (Two months maximum) of the location of the solid waste disposal facility where the debris resulting from the said construction activity shall be disposed of, and I shall submit the appropriate form for attachment to the Building Permit.

8/8/89

Date

*Betty Lacharite*

Signature of Permit Applicant

(Print or type the following information)

Betty Lacharite

Name of Permit Applicant

Dec-Tam Corporation

Firm Name, if any

10 Lowell Junction Road  
Andover, MA

Address



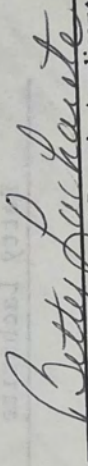
In accordance with the provisions of MGL c 40, S 54, a condition of Building Permit Number \_\_\_\_\_ is that the debris resulting from this work shall be disposed of in a properly licensed solid waste disposal facility as defined by MGL c 111, S 150A.

The debris will be disposed of in:

Meadowfill Corp. (IMS Landfill)

Clarksburg, W. VA

(Location of Facility)

  
Signature of Permit Applicant

August 8, 1989

Date

CHANGE IN COMPLETION DATE  
6/12/89  
FACILITY OR  
RENOVATION  
Name  
Actn: Ken Tarr (MA)  
PHI Cutler (other than  
NATIONAL EPA  
K BLDG., ROOM 2103  
OSTON, MA 02203

TOWN OF BURLINGTON



The Co.

252

PAID DRK 377

DEMOLITION/RENOVATION

NOTIFICATION

14465

REGIONAL EPA  
JFK BLDG., ROOM 2103  
BOSTON, MA 02203  
Attn: Ken Tarr (MA)  
Phil Cutler (other than MA)

CONTRACTOR: DEC-TAM CORPORATION  
10 LOWELL JUNCTION ROAD  
ANDOVER, MA 01801  
(508) 470-2860

81 Old Windson Road  
Bloomfield, CT 06002  
(203) 243-1513

CHANGE IN COMPLETION DATE-REFERENCE NOTIFICATION DATED  
6/12/89

RENOVATION

Facility Owner:

Name Burlington Public Schools Telephone No. 617-273-1870

Street 123 Cambridge Street  
City Burlington, State MA Zip 01803

Address of Project:

Street Fox Hill School  
City Burlington State MA Zip 01803

Present Use of Facility school Intended Use (if known)  
Description of Facility - Type of Building Masonry Size 60,000 Age 30+

Nature of Asbestos Activity - Removal  ; Enclosure \_\_\_\_\_ ; Encapsulation \_\_\_\_\_

Approximate Amount of Friable Asbestos:

Linear Feet: Square Feet: 56,000  
Start date 7/5/89 Completion Date 8/18/89 :  A.M.;  P.M.: Weekends

Description of work practices to be followed (to comply with 453 CMR 6.14)  
open removal, full set up

Description of decontamination system (s) to be used (to comply with 453 CMR 6.14 (2) (b)  
three stage decontamination

Description of handling/disposal methods (to comply with 453 CMR 6.14 (2) (g)  
wetting material with amended water and placing in double six mil poly prelabeled bags

Name, address/location of disposal site (s) IMS Landfill  
Clarksburg, WVA

Name, address of transporter (s) if other than asbestos contractor Jeffrey Chemical Co.  
789 Woburn Street - Wilmington, MA 01887 EPA ID# MAD 080030356

Named of Asbestos Abatement Project Monitor (if applicable)  
(by owner) Certified Engineering & Testing

Person/Firm  
Address Weymouth, MA

Date 8/10/89

Signed by: Larry Hill  
Title: Vice President, Sales

Work  
Sign  
Licen  
Address  
Applican  
bin fiv



JR Co

The Commonwealth of Massachusetts  
 DEPARTMENT OF LABOR AND INDUSTRIES  
 DIVISION OF INDUSTRIAL SAFETY

14465

NOTIFICATION OF ASBESTOS WORK

(In accordance with the provisions of M.G.L. c. 149, §6-6F and 453 C.M.R. 6.12)  
 All sections of this form must be completed in order to comply with  
 the notification requirements of 453 C.M.R. 6.12.

TEN DAY PRIOR NOTIFICATION IS REQUIRED OF ANY APARTMENT PROJECT  
 GREATER THAN THREE (3) LINEAR OR SQUARE FEET

Contractor performing project Dec-Tam Corporation License # AC000035  
 DLI FILE NUMBER \_\_\_\_\_

Do prevailing rates of wages apply to this project as required  
 under M.G.L. c. 149, §26, 27 or 27F? (circle one) NO

Address of Project \_\_\_\_\_  
 Building Name (if any) Fox Hill School

Street Address \_\_\_\_\_  
 City Burlington, MA Zip 01803 Phone \_\_\_\_\_

Project type (circle one): DEMOLITION RENOVATION REPAIR OTHER

If "Other" selected, please explain \_\_\_\_\_

Asbestos Activity: (circle one): ENCAPSULATION ASSOCIATED PROJECT  
ENCLOSURE REMOVAL

Indicate amount of: asbestos surface on pipes or ducts \_\_\_\_\_ LINEAR FEET  
 OR asbestos surface on structures other than \_\_\_\_\_  
pipes or ducts to be removed, enclosed or encapsulated 56,000 SQUARE FEET

Start date 7/5/89 am  X pm \_\_\_\_\_ weekends? \_\_\_\_\_

Completion Date 8/18/89 Certificate # SF01468

Project Supervisor Name William Bailey (by owner)  
 Asbestos Analytical Lab Name Certified Engineering Certificate # \_\_\_\_\_

Name & Address of disposal site(s) IMS Landfill  
Clarksburg, WVA



U M O W I

is the FACILITY OWNER  
Name: Street Address:  
ON-SITE MANAGER  
Name: Street Address:  
CERTIFIED  
Street Address:  
GENERAL CONTRACTOR  
Name: Street Address:

Does this project involve the removal and disposal of asbestos?  
If so, please specify the removal and disposal method to be used.  
In full the information in section 101.

Is asbestos contract written or verbal? written

Asbestos contract written or verbal? Hartford Insurance

Contractor's Workers' Compensation Insurer 08WZBH0503

Facility Owner Burlington Public Schools

Address 123 Cambridge Street State MA Zip 01803

City Burlington,

Description of work practices to be followed:  
open removal, full set up

Description of decontamination system(s) to be used  
three stage decontamination

Description of handling/disposal methods to comply with 453 CMR 6.14(2): (g)  
Wetting material with amended water and placing in double

6-mil poly bags

Name and address of transporter(s) if other than the asbestos contractor:  
Jeffrey Chemical

739 Woburn St., Wilmington, MA 01897

The undersigned hereby states, under the penalties of perjury, that he/she has read and understood the Commonwealth of Massachusetts Regulations for the removal, containment or encapsulation of asbestos, 453 CMR 6.00, and that the information contained in this notification is true and correct to the best of his/her knowledge and belief.

Date 8/10/89

Signed: Larry Hill

Change in completion date  
Reference notification dated 6/12/89

Title: Vice-President, Sales

Company: Dec-Tam

Please return this form to:

Asbestos Control Technical Services  
Department of Labor and Industries  
Division of Industrial Safety  
100 Cambridge Street, Room 1101  
Boston, MA 02202



DEPARTMENT OF ENVIRONMENTAL QUALITY ENGINEERING  
DIVISION OF AIR QUALITY CONTROL

14465 [SEE LAST PAGE FOR OFFICE LOCATIONS]

NOTIFICATION FORM FOR  
ASBESTOS REMOVAL AND GENERAL DEMOLITION/RENOVATION

A APPLICABILITY

Demolition/Renovation operations involving asbestos-containing material (ACM) and general Demolition/Renovation operations are regulated by the Department of Environmental Quality Engineering (EQE), Division of Air Quality Control, under Regulations 310 CMR 7.00, 7.09 and 7.15. Notification to the REGIONAL OFFICE of general demolition/renovation operations and demolition/renovation operations involving ACM is required under 310 CMR 7.09 (2) and 310 CMR 7.15 (1) (b) twenty (20) days prior to any work performed. The following information is required pursuant to 310 CMR 7.15. Copies of "Regulations for the Control of Air Pollution", 310 CMR 6.00 to 8.00 may be purchased from State Bookstore, State House, Room 116, Boston, Massachusetts, 02133. Telephone number (617) 72834. Please Print.

CHANGE IN COMPLETION DATE-REFERENCE NOTIFICATION DATED  
6/12/89

B GENERAL PROJECT DESCRIPTION

FACILITY  
Name: Fox Hill School Telephone: (617) 273-1870  
Street Address: \_\_\_\_\_ City/Town: Burlington, MA  
Size of Facility: In square feet: 60,000  
In number of floors: 1  
Was the Facility built prior to 1980? Yes  No   
Current or Prior use of Facility: school  
Is the Facility Occupied? Yes  No

FACILITY OWNER  
Name: Burlington Public Schools Telephone: (617) 273-1870  
Street Address: 123 Cambridge St City/Town: Burlington, MA

ON-SITE MANAGER (by owner)  
Name: Certified Engineering Telephone: \_\_\_\_\_  
Street Address: \_\_\_\_\_ City/Town: Weymouth, MA

GENERAL CONTRACTOR  
Name: \_\_\_\_\_ Telephone: \_\_\_\_\_  
Street Address: \_\_\_\_\_ City/Town: \_\_\_\_\_

Does this project involve the removal and/or alteration of any Asbestos Containing Material (ACM) as defined and applied in 310 CMR 7.00 and 7.15? Yes \_\_\_\_\_ No \_\_\_\_\_

If YES, you must supply in full the information requested in sections C through E below. IF NO, you must supply in full the information in sections D and E.

ASBESTOS REMOVAL DESCRIPTION

- ASBESTOS CONTRACTOR  
Name: Dec-Tam Corporation Telephone: (617) 470-2860  
Street Address: 10 Lowell Jct. Rd. City/Town: Andover  
Department of Labor and Industries Certification # AC000035
  - ON-SITE SUPERVISOR  
Name: William Bailey  
Department of Labor and Industries Certification # SF01468
  - SPECIFIC WORKSITE LOCATION(S) (i.e. Building name, number, wing, Floor, room, tunnel, is the job indoor or outdoor?) first floor
  - ESTIMATED AMOUNT OF EACH TYPE OF ACM TO BE HANDLED (In linear and/or square feet)  
    - \_\_\_\_\_ boiler, breaching, duct, tank surface coatings
    - \_\_\_\_\_ thermal, solid core pipe insulation
    - \_\_\_\_\_ corrugated or layered paper pipe insulation
    - \_\_\_\_\_ insulating cement
    - \_\_\_\_\_ spray-on fireproofing
    - \_\_\_\_\_ trowel/spray coatings
    - \_\_\_\_\_ cloths, woven fabric
    - \_\_\_\_\_ transite board, wall board
    - other - please describe ceiling tile
- 56,000 TOTAL IN LINEAR FEET  
\_\_\_\_\_ TOTAL IN SQUARE FEET
- DESCRIPTION OF TECHNIQUES USED FOR ESTIMATION  
measurement
  - ASBESTOS REMOVAL START DATE: 7/5/89 END DATE: 8/18/89  
HOURS OF OPERATION:  daytime \_\_\_\_\_ evening \_\_\_\_\_ night  
DAYS OF OPERATION:  Mon.-Fri. \_\_\_\_\_ Sat.-Sun.
- (NOTE: Any changes in these dates must be reported to the appropriate regional office. If a removal is postponed for more than thirty (30) calendar days, separate notification will be required)
- DESCRIPTION OF ASBESTOS REMOVAL PROCEDURES TO BE USED  
    - glove bag
    - \_\_\_\_\_ full containment
    - \_\_\_\_\_ encapsulation
    - \_\_\_\_\_ enclosure
    - \_\_\_\_\_ cleanup
    - \_\_\_\_\_ disposal only
    - \_\_\_\_\_ other - please describe \_\_\_\_\_
  - TRANSPORTER OF ASBESTOS-CONTAINING WASTE MATERIAL FROM SITE TO TEMPORARY STORAGE SITE (IF NECESSARY) TO FINAL DISPOSAL SITE  
Name: Jeffrey Chemical Telephone: 617, 657-7560  
Street Address: 789 Woburn St City/Town: Wilmington, MA
  - TRANSPORTER OF ASBESTOS-CONTAINING WASTE MATERIAL FROM REMOVAL/TEMPORARY STORAGE SITE TO FINAL DISPOSAL SITE  
Name: SAME AS ITEM B Telephone: \_\_\_\_\_  
Street Address: \_\_\_\_\_ City/Town: \_\_\_\_\_

DEPARTMENT OF HEALTH

Fee Checked  
1/1/88  
WORK  
FPP-11  
-19

Sign  
License  
Live



6/16/89

REFUSE TRANSFER STATION FACILITY AND OWNER (IF APPLICABLE)

Name: SAME AS ITEM 8 Telephone: ( )  
Street Address: City/Town:  
Owner's Name:

(NOTE: Transfer Stations must comply with the Division of Solid Waste Regulations 310 CMR 18.00.)

11. FINAL DISPOSAL SITE

Name: IMS Landfill Telephone: ( )  
Street Address: City/Town: Clarksburg, WVA  
Owner's Name: Barbara Riffle

(NOTE: Disposal of ACM must comply with the Division of Solid Waste Regulations 310 CMR 19.00.)

12. FOR EMERGENCY ASBESTOS REMOVAL OPERATIONS, NAME AND TITLE OF DEQE OFFICIAL WHO EVALUATED THE EMERGENCY

Name: Title:  
Date of Authorization:

D GENERAL DEMOLITION/RENOVATION DESCRIPTION

1. DEMOLITION/RENOVATION CONTRACTOR

Name: Telephone: ( )  
Street Address: City/Town:

2. ON-SITE SUPERVISOR

Name:

3. SPECIFIC WORKSITE LOCATION(S):

4. WAS THE FACILITY SURVEYED FOR THE PRESENCE OF ASBESTOS CONTAINING MATERIAL (ACM)? yes no

WHO CONDUCTED THE SURVEY?

Name:

Department of Labor and Industries Certification #:

5. DEMOLITION/RENOVATION START DATE: END DATE

6. DESCRIPTION OF DEMOLITION/RENOVATION PROCEDURES TO BE USED

(NOTE: Demolition/Renovation Operations must comply with 310 CMR 7.09 to control emissions to prevent a condition of air pollution.)

7. FOR EMERGENCY DEMOLITION/RENOVATION OPERATIONS, NAME, TITLE AND AUTHORITY OF STATE OR LOCAL OFFICIAL WHO EVALUATED THE EMERGENCY

Name: Title:

Authority: Date of Authorization:

(GENERAL STATEMENT: If Asbestos-Containing Material is unexpectedly found or damaged during a Demolition/Renovation operation, all responsible parties must comply with 310 CMR 7.00, 7.09, 7.15 and Chapter 21E of the General Laws of the Commonwealth. This would include but would not be limited to filing an asbestos removal notification with the Department of Environmental Protection.)

E PREPARER OF FORM

Name: Dec-Tam Corporation Telephone: (617) 470-2860  
Street Address: 10 Lowell Jct. Rd. City/Town: Andover

THIS FORM MUST BE SIGNED BY THE OWNER OR BY THE RESPONSIBLE OPERATOR OF THE PROPOSED PROJECT.

CERTIFICATION: I CERTIFY THAT I HAVE EXAMINED THE ABOVE AND THAT TO THE BEST OF MY KNOWLEDGE IT IS TRUE AND COMPLETE. SIGNATURE SUBJECTS SIGNER TO THE PROVISIONS OF THE GENERAL STATUTES REGARDING FALSE AND MISLEADING STATEMENTS.

Larry Hill  
(SIGNATURE)  
Dec-Tam Corporation  
(REPRESENTING)

Vice President, Sales

(TITLE)

8/10/89

(DATE)

F REGIONAL OFFICE LOCATIONS

AIR QUALITY SECTION CHIEF  
DIVISION OF AIR QUALITY CONTROL  
MET BOSTON/NORTHEAST REGION  
5 COMMONWEALTH AVENUE  
WOBURN, MA 01801

TELEPHONE: (617) 935-2160  
OR 727-5194

AIR QUALITY SECTION CHIEF  
DIVISION OF AIR QUALITY CONTROL  
WESTERN REGION STATE HOUSE - WEST  
436 DWIGHT STREET - 4th FLOOR  
SPRINGFIELD, MA 01103  
MAIL TO: P.O. BOX 2140

TELEPHONE: (413) 785-5327

AIR QUALITY SECTION CHIEF  
DIVISION OF AIR QUALITY CONTROL  
SOUTHEAST REGION LAKEVILLE HOSPITAL  
MAIN STREET  
LAKEVILLE, MA 02347

TELEPHONE: (617) 947-1231  
OR 727-1440 X680

AIR QUALITY SECTION CHIEF  
DIVISION OF AIR QUALITY CONTROL  
CENTRAL REGION  
75 GROVE STREET  
WORCESTER, MA 01605

TELEPHONE: (617) 792-7653

For official use only:

original \_\_\_\_\_ resubmittal \_\_\_\_\_

notification incomplete/returned \_\_\_\_\_

Date \_\_\_\_\_ cert.mail # \_\_\_\_\_









Inspector must be notified when soil, drain pipes, and all connections therewith are placed in position.

# Application for Permit to Do Plumbing

BURLINGTON, MASSACHUSETTS

No. *47*  
*March 25*, 19*24*

To Plumbing Inspector:

Location, ownership and detail must be complete and legible  
Separate application required for every building

The undersigned hereby applies for a permit to perform plumbing work, according to the following specifications:

1. Location of Building No. *For Mill School For Munka*
2. Nearest cross Street
3. Name of Owner Address *Callahan*
4. Material of Building Address *121 N. Main St. Beverly*
5. How is the Building Occupied? New or old?
6. How many families? Number of Stores?
7. Is the building erected on solid or filled land?
8. How much below the grade of the Street is the cellar bottom?

### Nature of the Proposed Plumbing in Detail

Basement

First Story *Installing Disposal*

Second Story

ADDRESS *121 N. Main St. Beverly*

SIGN HERE *R. H. Peirce*

PLUMBERS MUST RECEIVE A PERMIT BEFORE COMMENCING WORK



JOHN WOODBRIDGE BEAL
H. STORY GRANGER
EDWARD A. J. POSKUS

MEMBERS OF THE AMERICAN INSTITUTE OF ARCHITECTS  
**J. WILLIAMS BEAL SONS, GRANGER & POSKUS, ARCHITECTS**  
 185 DEVONSHIRE STREET, BOSTON, MASSACHUSETTS, LIBERTY 2-1879

June 23, 1966

Mr. Paul Johnston  
 Inspector of Buildings  
 Town of Burlington  
 Burlington, Mass.

Re: Elementary School No. 5  
 Burlington, Massachusetts

Dear Mr. Johnston:

Please find enclosed copies of concrete tests  
 of classroom floor slabs, Units 2, 3 and 4,  
 submitted by Herman G. Protze.

Very truly yours,

*Herbert W. Hatch.*

Herbert W. Hatch

HWH:emc  
 Enc.

EAJP:eld



DEPARTMENT OF HEALTH  
TOWN OF BURLINGTON  
MASSACHUSETTS

252 FOXHILL ROAD  
FOXHILL SCHOOL



PERMIT TO INSTALL PRIVATE SEWERAGE  
DISPOSAL SYSTEM

No. 6  
Fee 25.00  
Burlington, July 2 19 66

Permission is hereby granted to M. Spinelli + Sons - 25 Rowley (Street) Combi, Mass.  
to install a private sewerage system at Fox Hill Rd. Elementary Sch. Burlington,  
Massachusetts. This permit is issued with the provision that the recipient shall comply with the Sewerage Dis-  
posal Regulations of the Town of Burlington, the following specifications and that he will notify the Agent of  
the Board of Health before backfilling.  
as per State B. of H. O. K. H. J. Howard  
AGENT

SPECIFICATIONS FOR SEWERAGE SYSTEM

- A. General  
Percolation Time \_\_\_\_\_ Sq. Ft. Absorption Area \_\_\_\_\_  
Diameter & Grade of House Sewer \_\_\_\_\_ Depth Below Final Grade \_\_\_\_\_
- B. Primary Treatment Consists of  Septic Tank  Cesspool  Privy Vault  
Capacity of Septic Tank \_\_\_\_\_ gals., Manholes \_\_\_\_\_ Construction \_\_\_\_\_  
Capacity of Privy Vault \_\_\_\_\_ cubic ft., Screening \_\_\_\_\_ Ventilation \_\_\_\_\_  
Diameter of Cesspool \_\_\_\_\_ ft., Depth Below Inlet Pipe \_\_\_\_\_ ft.  
Number of Cesspools \_\_\_\_\_ Distance Apart \_\_\_\_\_ ft., Manholes \_\_\_\_\_ ft.  
Distance from Building \_\_\_\_\_ ft., Property Lines \_\_\_\_\_ ft.  
Distance from Water Lines, Wells, Streams, Drainage Ditches \_\_\_\_\_ ft.
- C. Secondary Treatment Consists of  Distribution Box  Tile Field  Seepage Pit  Leaching Bed
1. Seepage Pit: Diameter \_\_\_\_\_ ft., Depth Below Inlet Pipe \_\_\_\_\_ ft.  
Number of Pits \_\_\_\_\_ Distance Apart \_\_\_\_\_ ft.  
Distance from Building \_\_\_\_\_ ft., Property Lines \_\_\_\_\_ ft.  
Distance from Water Lines, Wells, Streams, etc. \_\_\_\_\_ ft.
  2. Tile Field: Number of Laterals \_\_\_\_\_ Total Linear Ft. of Pipe \_\_\_\_\_ ft.  
Depth of Trenches \_\_\_\_\_ in., Width \_\_\_\_\_ in. Dist. Apart \_\_\_\_\_ ft.  
Diameter of Pipe \_\_\_\_\_ in., Grade of Trenches & Pipe \_\_\_\_\_ /100 ft.  
Depth of Stone Below Pipe \_\_\_\_\_ in., Above Pipe \_\_\_\_\_ in.  
Trenches Covered With \_\_\_\_\_ paper (salt hay), Type of Pipe \_\_\_\_\_
  3. Leaching Bed: Dimensions of bed \_\_\_\_\_ ft. x \_\_\_\_\_ ft., Number of laterals \_\_\_\_\_ ft.  
Depth of Bed \_\_\_\_\_ ft., Distance Between Laterals \_\_\_\_\_ ft.  
4. Fill Needed: Dimensions \_\_\_\_\_ ft. x \_\_\_\_\_ ft., Depth \_\_\_\_\_ ft.  
Fill to consist of \_\_\_\_\_ ft., of \_\_\_\_\_ stone, and \_\_\_\_\_ ft. of Bank Run  
Sand & Gravel.
- D. Diagram and Plot Plan of System on Reverse Side
- E. Approval of System
- (Stamp) 1. Inspection Made \_\_\_\_\_ 19 \_\_\_\_\_  
2. Inspection Made \_\_\_\_\_ 19 \_\_\_\_\_  
3. Inspection Made \_\_\_\_\_ 19 \_\_\_\_\_

AGENT





# The Commonwealth of Massachusetts

## DEPARTMENT OF PUBLIC SAFETY DIVISION OF INSPECTION

1010 Commonwealth Avenue  
Boston 15, Mass.

October 8, 1965

### CERTIFICATE OF APPROVAL FOR PLANS AND SPECIFICATIONS

I hereby certify that plans and specifications have been deposited with me by

J. Williams Beal Sons, Granger & Peckus, 185 Devonshire Street, Boston, Mass

for the erection of a building on North End of Fox Hill Street in the

Town of BURLINGTON

to be known as Elementary School #5 and designed to be

used in whole or in part for educational purposes

and I hereby certify that said plans and specifications conform to the provisions of Chapter 143 of the General Laws, for a building of its class, relating to egresses, means for preventing spread of fire, and means for extinguishing fire in said building in accordance with conditions on reverse side.

If any change is made in said plans or specifications, or in the use for which the building is designed, the Supervisor of Plans must be notified, and a new certificate obtained therefor

Approved.

Joseph E. Duffey  
Chief of Inspections.

Joseph Yantosca  
Supervisor of Plans.



1. This certificate of approval is issued subject to the regulations of this Department.
2. General specifications for preventing the spread of fire which apply to this building shall be carried out as directed by the State Building Inspector.
3. These plans are approved subject to the provisions of all Federal laws, rules and regulations.
4. They are referred to Inspector Pasquale Pizzano of this office 1010 Commonwealth Avenue, Boston 15, Mass., Telephone Longwood 6-4500 with whom you will take up all matters pertaining to same.



J. WILLIAMS BEAL SONS, GRANGER & POSKUS  
ARCHITECTS  
185 DEVONSHIRE STREET  
BOSTON

Copy for Mr. Vincent Howard, c/o Board of Health, Town of Burlington

July 12, 1965.

Mr. Herbert D. Nickerson  
District Sanitary Engineer  
Northeast Department of Public Health  
Building No. 4  
Tewksbury Hospital  
Tewksbury, Massachusetts

Dear Mr. Nickerson: Re: Burlington Elementary School

I am enclosing a topographical plan of land in Burlington that is under consideration for a new elementary school.

On Saturday, July 10th, in the presence of Mr. Vincent Howard, agent for the Board of Health for the Town of Burlington, percolation tests were made and it was established that in Hole #1 the percolation made was one inch in every 8 minutes: in percolation holes #2 and #3 the percolation was one inch in 9 minutes.

In viewing the test holes, the soil conditions are fairly uniform throughout the entire area. The test holes were dug to a depth of 7-1/2 to 9 feet. With the soil being as uniform as it was, Mr. Howard felt that the percolation in any other percolation pits would be about the same.

Prior to making the percolation tests, the percolation holes were saturated for a period of two hours as you had requested.

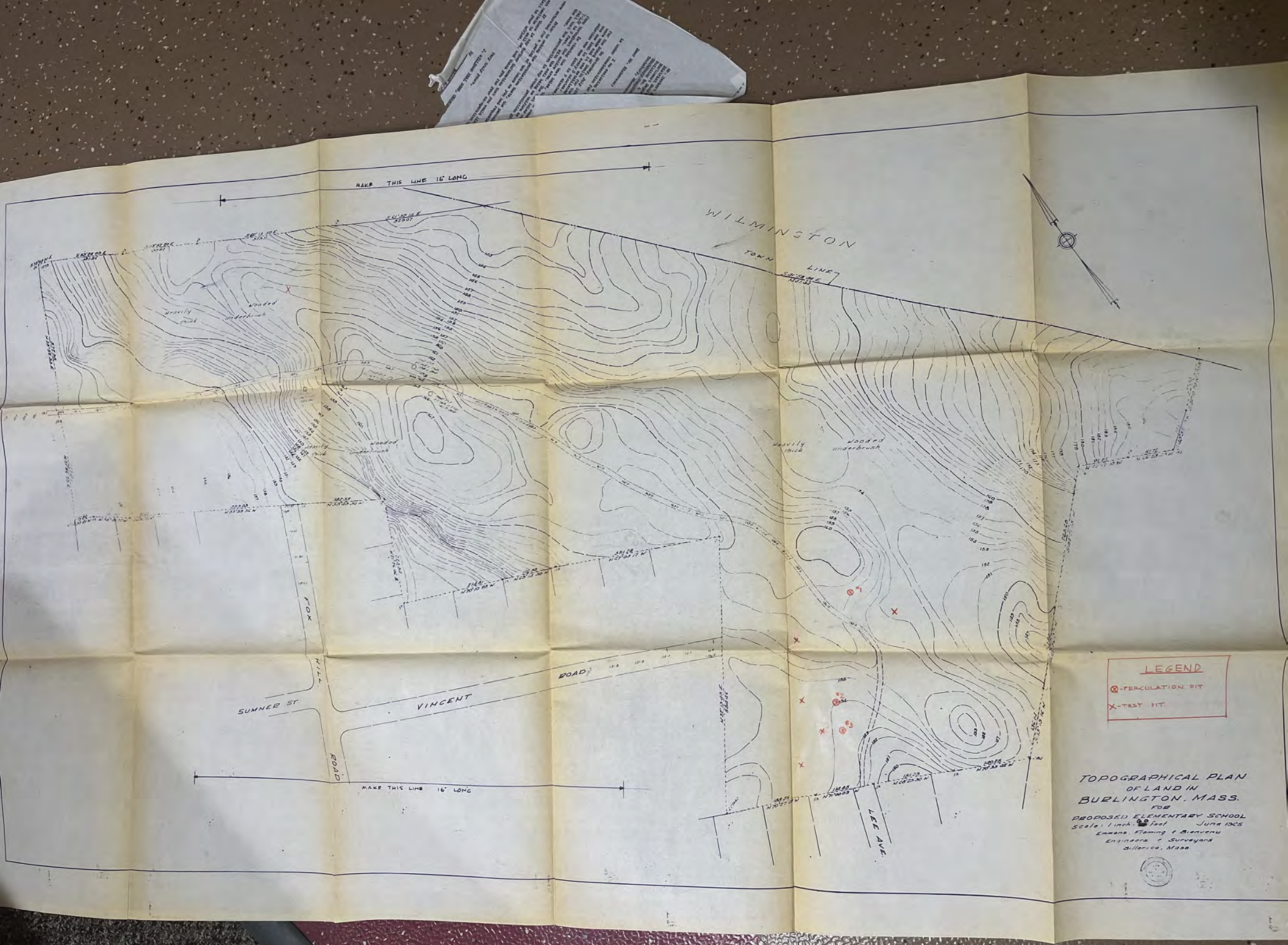
If there is any further information that you would like, please do not hesitate to call me, and thank you for your co-operation upon my visit to your office.

Very truly yours,

J. WILLIAMS BEAL SONS, GRANGER

By Edward A. J.







UTILITY PLAN  
SCALE 1" = 60'-0"

N

LEGEND	
	SANITARY SEWER
	STORM SEWER
	WATER SERVICE
	GATE VALVE
	MANHOLE
	CATCH BASIN

PROPERTY LINE

NOTE:  
ORIGINAL SURVEY & TOPOGRAPHY  
PREPARED BY  
EMMONS, FLEMING, & BIENVENU  
ENGINEERS & SURVEYORS  
BILLERICA, MASS. JUNE, 1965

SEPT 8, 1966 LEACHING FIELD DETAILS & DISPOSAL SYSTEM PROFILE REV.

R E V I S I O N S

J. WILLIAMS BEAL, SONS, GRANGER & POSKUS  
ARCHITECTS  
185 DEVONSHIRE ST., BOSTON, MASS.

DRAWN H.B.G. COMM. NO. 818  
CHECKED W.D.T. DATE SEPT. 17, 1965

ELEMENTARY SCHOOL NO 5  
BURLINGTON, MASSACHUSETTS

SITE PLAN  
UTILITIES  
SCALE AS NOTED.

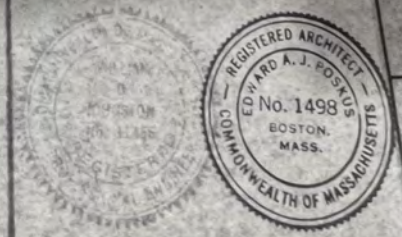
U-1

APPROVED

Mass. Department of Public Health  
Division of Sanitary Engineering

*Thomas F. McLaughlin*  
Date

SEP 19 1966



SEP 9 1966











**From:** [John Keeley](#)  
**To:** [Cheryl Cambria](#)  
**Cc:** [conservation@burlington.org](mailto:conservation@burlington.org)  
**Subject:** Re: Records Inquiry  
**Date:** Friday, April 7, 2023 12:29:34 PM

---

Hi Cheryl

Conservation has no such records, as the Fox Hill School is not within 100 feet of wetlands. The Board of Health may have records, though.

John

On Fri, Apr 7, 2023 at 11:17 AM Cheryl Cambria <[cherylcambria@gmail.com](mailto:cherylcambria@gmail.com)> wrote:

Hi,

I am conducting an environmental assessment at Fox Hill Elementary School at 252 Fox Hill Road in Burlington. I am writing to request records pertaining to the use and storage of oil in underground or aboveground storage tanks and/or the spill or release of oil or other hazardous substance at this location.

I will be in the area on Wednesday, April 12 and could stop by your office to view files if more convenient.

Thank you!!

Cheryl A. Cambria

ECMS Associate

508-942-0366

--

John Keeley, Conservation Administrator

Town of Burlington | Conservation Department | 25 Center Street | Burlington, MA 01803  
t 781-270-1655 | [www.burlington.org](http://www.burlington.org)

All email messages and attached content sent from and to this email account are public records unless qualified as an exemption under the [Massachusetts Public Records Law](#).





TOWN OF BURLINGTON  
Town Clerk's Office

Amy E. Warfield, Town Clerk, CMC  
Linda A. McNeill, Assistant Town Clerk  
Janice M. Archer, Senior Clerk

Daniel C. McCormack, CA  
Records Manager/Archivist  
Julie M. Michutka, Department Assistant

**PUBLIC RECORDS REQUEST**

Date: April 7, 2023

**Information of Requestor**

Name:	<u>Cheryl Cambria</u>
Address:	<u>NA</u>
City, State, Zip:	<u>NA</u>
Phone:	<u>508-942-0366</u>

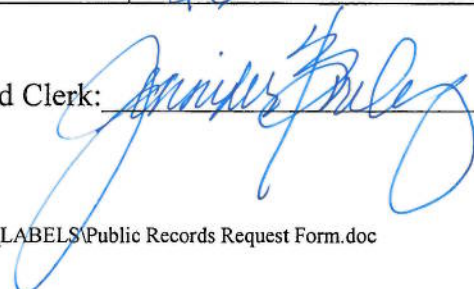
**Public Information Requested** (Please specify in exact detail)

<u>Both file for 252 Fox Hill Rd. - Fox Hill Elementary School</u>

**NON-OFFICIAL** (Fee to be determined by record clerk)  
 **OFFICIAL** (Committee or Board)

**FOR OFFICE USE ONLY**

Date Information Released:	<u>April 7, 2023</u>
Information Picked Up By:	<u>Emailed to Requestor</u>
Fee Charged:	<u>\$0</u>

Signature of Record Clerk: 

G:\TEMPLATES\_FORMS\_LABELS\Public Records Request Form.doc





Commonwealth of Massachusetts
Asbestos Notification Form — ANF-001

701921

A Asbestos Abatement Description

INSTRUCTIONS

1. All sections of this form must be completed in order to comply with the Department of Environmental Protection notification requirements of 310 CMR 7.15 (ten working days prior notification is required of any abatement project); and the Department of Labor and Industries notification requirements of 453 CMR 6.12 (ten days prior notification is required of ANY abatement project greater than three linear or square feet).

2. Submit Original Form To: Commonwealth of Massachusetts Asbestos Program P.O. B. 120087 Boston, MA 02112-0087

3. This form may be used for notifying the U.S. Environmental Protection Agency Region I of asbestos demolition/renovation operations subject to NESHAPS (40 CFR Subpart M).

For Official Use Only
Investigation #
Received Date
Received
Form Approved/Unapproved
Process Date

1. Facility location:
Fox Hill Scholl
NO # - Fox Hill Road
Name Address
Burlington 01803 (617) 270-1814
City/Town Zip code Telephone
boiler room
What is the worksite location? building name, #, wing, floor, room

2. Is the facility occupied? [X] Yes [ ] No
3. Asbestos Contractor:
Dec-Tam Corporation 10 Lowell Jct. Road
Name Address
Andover 01810 (508) 470-2860
City/Town Zip code Telephone
AC000035 written
DLI License # Contract type (written/verbal)

4. On-Site Project Supervisor/Foreman:
Charles Brewer SF09713
Name DLI Certification #

5. Project Monitor:
RECON \ Env. AA000004
Name DLI Certification #

6. Asbestos Analytical Lab:
same as 5
Name DLI Certification #

7. Project start date 8/22/95 end date 8/22/95 special work hours (Mon.-Fri.) 8am - 4pm (Sat. Sun.)

8. What type of project is this? (circle one): demolition repair renovation other (explain)

9. Describe the asbestos abatement procedures to be used (circle): glove bag enclosure full containment cleanup
encapsulation disposal only other (explain)

10. Is the job being conducted [X] indoors [ ] outdoors?

11. Total amount of each type of Asbestos Containing Materials (ACM) to be handled on pipes or ducts (linear ft.) or other surfaces (square ft.) 5 to be removed, enclosed or encapsulated:
linear/square feet
boiler, breaching, duct, tank surface coatings 5 thermal, solid core pipe insulation
corrupted or layered paper pipe insulation
spray-on fireproofing
cloths, woven fabrics
other (please describe)

12. Describe the decontamination system(s) to be used:
two stage

13. Describe the containerization/disposal methods to comply with 310 CMR 7.15 and 453 CMR 6.14(2)(g):
wetting material with amended water and placing in double 6 mil poly pre-labeled bags to be transported to an approved landfill in a sealed, lockable container

14. For Emergency Asbestos Abatement Operations, the DEP and DLI officials who evaluated the emergency:

Name of DEP Official Title
Date of Authorization Waiver #
Name of DLI Official Title
Date of Authorization Waiver #

15. Do prevailing wage rates apply as per M.G.L. c. 149, § 26, 27, or 27A - F to this project? [X] Yes [ ] No





Commonwealth of Massachusetts  
Asbestos Notification Form — ANF-001

701921

**A** Asbestos Abatement Description

INSTRUCTIONS

1. All sections of this form must be completed in order to comply with the Department of Environmental Protection notification requirements of 310 CMR 7.15 (ten working days prior notification is required of any abatement project); and the Department of Labor and Industries notification requirements of 453 CMR 8.12 (ten days prior notification is required of ANY abatement project greater than three linear or square feet).

2. Submit Original Form to:  
Commonwealth of Massachusetts  
Asbestos Program  
P.O. B. 120087  
Boston, MA 02112-0087

3. This form may be used for notifying the U.S. Environmental Protection Agency (Region I) of asbestos demolition/renovation operations subject to NESHAPS (40 CFR Subpart M).

For Official Use Only
Notification #
Received Date
Received By
Form # (continued)
Received Date

- Facility location:  

Name	Fox Hill School		NO # - Fox Hill Road
Address	Burlington		
City/Town	01803	(617) 270-1814	
Zip code		Telephone	
boiler room			
What is the exact location? building name, #, wing, floor, room			
- Is the facility occupied?  Yes  No
- Asbestos Contractor:  

Name	Dec-Tam Corporation		10 Lowell Jct. Road
Address	Andover		
City/Town	01810	(508) 470-2860	
Zip code		Telephone	
AC000035			
Contract type (written/oral)	written		
- On Site Project Supervisor/Foreman:  

Name	Charles Brewer	SF09713
DI Certification #		
- Project Monitor:  

Name	RECON Env.	AA000004
DI Certification #		
- Asbestos Analytical Lab:  

Name	same as 5	DI Certification #
------	-----------	--------------------
- Project start date 8/22/95 and date 8/22/95 specific work hours (Mon.-Fri.) 8am - 4pm (Sat. Sun.) \_\_\_\_\_
- What type of project is this? (circle one): demolition    repair    renovation    other (explain) \_\_\_\_\_
- Describe the asbestos abatement procedures to be used (circle): enclosure    other (explain) \_\_\_\_\_  
encapsulation    disposal only    other (explain) \_\_\_\_\_
- Is the job being conducted  indoors  outdoors?
- Total amount of each type of Asbestos Containing Materials (ACM) to be handled on pipes or ducts (linear ft.) \_\_\_\_\_ or other surfaces (square ft.) 5 to be removed, enclosed or encapsulated:  

boiler, trenching, duct, tank surface coatings	_____ / 5	thermal, solid core pipe insulation	_____ / _____
conspicuous or layered paper pipe insulation	_____ / _____	insulating cement	_____ / _____
spray-on fireproofing	_____ / _____	boiler/sprayer coatings	_____ / _____
chills, woven fabrics	_____ / _____	barite board, wall board	_____ / _____
other (please describe)	_____ / _____		
- Describe the decontamination system(s) to be used:  
two stage
- Describe the containerization/disposal methods to comply with 310 CMR 7.15 and 453 CMR 8.14(2)(a):  
wetting material with amended water and placing in double 6 mil poly pre-labeled bags to be transported to an approved landfill in a sealed, lockable container
- For Emergency Asbestos Abatement Operations, the DEP and DI officials who evaluated the emergency:  

Name of DEP Official	Title
Date of Authorization	Waiver #
Name of DI Official	Title
Date of Authorization	Waiver #
- Do prevailing wage rates apply as per M.G.L. c. 149, § 26, 27, or 27A - F to this project?  Yes  No



**TOWN OF BURLINGTON**  
**Board of Health**  
**61 Center Street**  
**Burlington, MA 01803**

**Main Office** Phone: (781) 270-1955 Fax: (781) 273-7687  
Sharon Walker Mastenbrook, Director of Public Health – (781) 270-1954  
Heidi Porter, Environmental Engineer – (781) 270-1956  
Marlene Johnson, Health Agent – (781) 270-1949

**Nurse's Office** Phone: (781) 270-1957 Fax: (781) 270-1605  
Judy Baggs, Supervising Nurse – (781) 238-4688  
Dianne Luther, Public Health Nurse – (781) 505-1139  
**Website:** [www.burlington.org/clerk/BOH/boh](http://www.burlington.org/clerk/BOH/boh)

**MEMORANDUM**

**TO:** Planning Board

**FROM:** Board of Health

**DATE:** June 29, 2006

**RE:** Application for Approval of Site Plan Waivers  
Fox Hill School, 252 Fox Hill Road  
Memorial School, 119 Winn Street

---

The Board of Health has reviewed the above applications and met with the proponent and understands the proposed work will consist of the following:

- Installation of portable trailers to comprise an average 2,400 square foot temporary classroom area at each location;
- They will have restrooms;
- At Memorial School, utilities will tie into building;
- At Fox Hill School, the sewage connection will be a separate connection to the sewer outlet pipe at the site due to the school's slab on grade construction;
- The buildings will be heated via electric units;
- No food will be served in these classrooms; and
- The classrooms are expected to be on site for up to 3 years.

At its regularly scheduled meeting on June 27, 2006, the Board of Health voted to approve the referenced applications and has no significant comments.

Board of Health Members

Edmund Wall - Chairman · Terry McSweeney - Vice-Chairman · James Dion · Catherine Read, Ph.D., RN · Edward Weiner, Ph.D.



**Subject:** Fox Hill and Memorial Schools - Site Plan Waivers

**From:** Heidi Porter <hporter@burlmass.org>

**Date:** Thu, 29 Jun 2006 17:43:36 -0400

**To:** Bernie Schipelliti <bschipelliti@burlmass.org>, "Bob Mercier (rmercier@burlmass.org)" <rmercier@burlmass.org>, John Clancy <jclancy@burlmass.org>, "John Keeley (jkeeley@burlmass.org)" <jkeeley@burlmass.org>, Kristin Hoffman <khoffman@burlmass.org>, "Lee Callahan (lcallahan@burlmass.org)" <lcallahan@burlmass.org>, "Mike Hanafin (mhanafin@burlmass.org)" <mhanafin@burlmass.org>, "Pauline Crusco (pcrusco@burlmass.org)" <pcrusco@burlmass.org>, Sharon Walker Mastenbrook <smastenbrook@burlmass.org>, "Tom Hayes (thayes@burlmass.org)" <thayes@burlmass.org>, Tony Fields <afields@burlmass.org>, Jen Gelinias <jgelinas@burlmass.org>

Final Board of Health comments on the referenced proposals are attached.

--

Heidi Porter, MPH Environmental Engineer Town of Burlington Board of Health 61 Center Street Burlington, MA 01803 phone: 781-270-1956 fax: 781-273-7687 email: hporter@burlmass.org

**Fox Hill and Memorial Schools - SPW.doc**

**Content-Type:** application/msword

**Content-Encoding:** base64



## 252 Fox Hill Road - MEC


Christine Mathis <cmathis@burlington.org>

Wed, Jul 30, 2014 at 2:02 PM

To: Marlene Johnson <mjohnson@burlington.org>, Susan Lumenello <slumenello@burlington.org>, Bernie Schipelliti <bschipelliti@bpd.org>, Chief Steve Yetman <syetman@burlington.org>, Don Benjamin <dbenjamin@burlington.org>, Jennifer Gelinias <jgelinas@burlington.org>, Jodie Wennemer Keene <jkeene@burlington.org>, John Clancy <jclancy@burlington.org>, John Keeley <jkeeley@burlington.org>, John Petrin <jpetrin@burlington.org>, John Sanchez <jsanchez@burlington.org>, Josh Morris <jmorris@burlington.org>, Judy Sorensen <jsorensen@burlington.org>, Kristin Kassner <kkassner@burlington.org>, Leslie McLaughlin <lmclaughlin@burlington.org>, Mary Fay <mfay@burlington.org>, Mike Hanafin <mhanafin@burlington.org>, Stephen Hildreth <shildreth@burlington.org>, Tom Hayes <thayes@burlington.org>

Board of Health comments are attached.

Christine Mathis, Environmental Engineer  
Burlington Board of Health  
61 Center Street  
Burlington, MA 01803  
Tel: 781-270-1954 Fax: 781-273-7687

 **Fox Hill Road 252 - MEC.doc**  
244K





**RECEIVED**  
By Town Clerk's office at 2:03 pm, Aug 11, 2014

**TOWN OF BURLINGTON**  
*Planning Department*

*Paul F. Roth, Member Clerk*  
*Ernest E. Covino*  
*Ann M. Cummings*  
*Impemba*

*John D. Kelly, Chairman*

*Barbara L'Heureux, Vice Chairman*  
*Paul R. Raymond*  
*Joseph A.*

**MEMO TO:** Amy Warfield, Town Clerk  
**FROM:** Don Benjamin, Senior Planner  
**DATE:** August 11, 2014  
**RE:** Decision – Application for Approval of a Minor Engineering Change – 252 Fox Hill Road, Pandolfo Company, Inc, Applicant.

At their meeting of August 7, 2014 the Planning Board made the following motion, approving the above referenced application:

**MOTION** – To approve the request of Pandolfo Company Inc, for property located at 252 Fox Hill Road, for a Minor Engineering Change to pave (asphalt) an existing stone dust/gravel drive, as reflected on the Plan entitled, "Site Plan in Burlington, MA, Fox Hill, Fox Hill Road, Burlington, MA," dated June 1, 2006, received in the Planning Department July 11, 2014, prepared by KBA Architects, subject to the following revisions, terms and conditions:

1. All previous conditions of approval granted to this property shall continue to remain in effect, as modified by this decision;
2. The applicant and/or property owner shall comply with all building and fire safety codes, and all recommendations and conditions of the Inspector of Buildings and Fire Department pertaining to such codes.
3. The applicant/property owner shall comply with the following requirements of the Board of Health:
  1. In the event that the proposed activities result in the accumulation of stagnant water or alteration of drainage patterns at the Site or adjacent properties, the proponent shall apply to the Board of Health for a Drainage Permit. As part of the Drainage Permit application, a drainage plan prepared by a professional engineer shall be submitted to ensure stormwater at the site is properly controlled and does not impact neighboring

Joe Pandolfo  
Pandolfo Company, Inc.  
P.O. Box 1068  
Burlington, MA 01803





Town of Burlington  
 Planning Board  
 25 Center Street, Burlington MA 01803  
 Phone: 781-270-1645

[http://www.burlington.org/community\\_development/planning.php](http://www.burlington.org/community_development/planning.php)

**FORM V**  
**APPLICATION FOR A MINOR ENGINEERING CHANGE**

To: The Planning Board  
 Town of Burlington, Massachusetts

Date: July 10, 2014

The undersigned hereby respectfully requests, pursuant to Section 3 of the Burlington Planning Board's Rules & Regulations, that the Planning Board approve as a "Minor Engineering Change" the following modifications to the property located at:

Address: 252 FOX HILL ROAD - BURLINGTON, MA 01803

for which there is an approved Site Plan on file with the Planning Board which is:

Entitled: "SITE PLAN IN BURLINGTON, MA - FOX HILL SCHOOL, FOX HILL ROAD"

Submitted By: THE BURLINGTON SCHOOL DEPARTMENT

Prepared By: KBA ARCHITECTS - KNIGHT, BAGGE & ANDREASON, INC - BOSTON, MA

Dated JUNE 1, 2016, and Revised to NO REVISIONS

Endorsed by the Planning Board on JUNE 15, 2006

Proposed Change(s)

Please list proposed change(s) below. Include a statement supporting the basis for a "Minor Engineering Change". Attach additional pages as needed as well as redlined plans illustrating the proposed change(s). All pages of the plan that are affected must be redlined with proposed change(s).

PLEASE SEE ATTACHED DETAILS LATER "PROPOSED CHANGE"

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**FILING INSTRUCTIONS**

It is recommended that you call 781-270-1645 prior to filing an application to arrange a submission appointment with the Senior Planner

Upon completion of the application, file the following with the Planning Department:

- Completed original application (ALL PAGES).
- Six folded paper copies of the current approved plan of record, redlined on all affected pages to show proposed change(s), and any other supporting documentation required.
- One set of submittal material and plans must also be in electronic pdf format
- Application Fee (Check or Money Order made payable to The Town of Burlington)

The Planning Department will stamp the application "received", issue a receipt for the fee and assign a meeting date at which time this matter will be scheduled to be discussed by the Planning Board.

<b>Planning Department:</b> Application & Fee Received By (Stamp/Initial):	
Receipt# <u>77313</u>	<b>Planning Department</b>
Amount: <u>\$ 500.00</u>	<b>JUL 11 2014</b>
Rcv'd By: <u>J. Gelinas</u>	<b>Received</b>





# TOWN OF BURLINGTON

## *Planning Department*

*Kristin Kassner, Planning Director*

*Don Benjamin, Senior Planner  
Josh Morris, Assistant Planner  
Jennifer Gelinis, Principal Clerk*

Date: July 14, 2014

To: Board of Health  
Conservation  
Engineering  
Police

From: Jennifer Gelinis  
Principal Clerk

RE: 252 Fox Hill Road

Attached please find a Minor Engineering Change plan and Application for the above referenced property. This application seeks to asphalt pave a 12' wide surface in an existing gravel/stone dust access roadway. This matter has been placed on the Planning Board agenda for August 7, 2014 so please forward any comments you have by August 1, 2014.

If you should have any questions, please contact me at 1645. Thank you for your cooperation with this matter



## MINOR ENGINEERING CHANGE - PROPOSED CHANGE

### RE: FOX HILL SCHOOL ACCESS ROADWAY

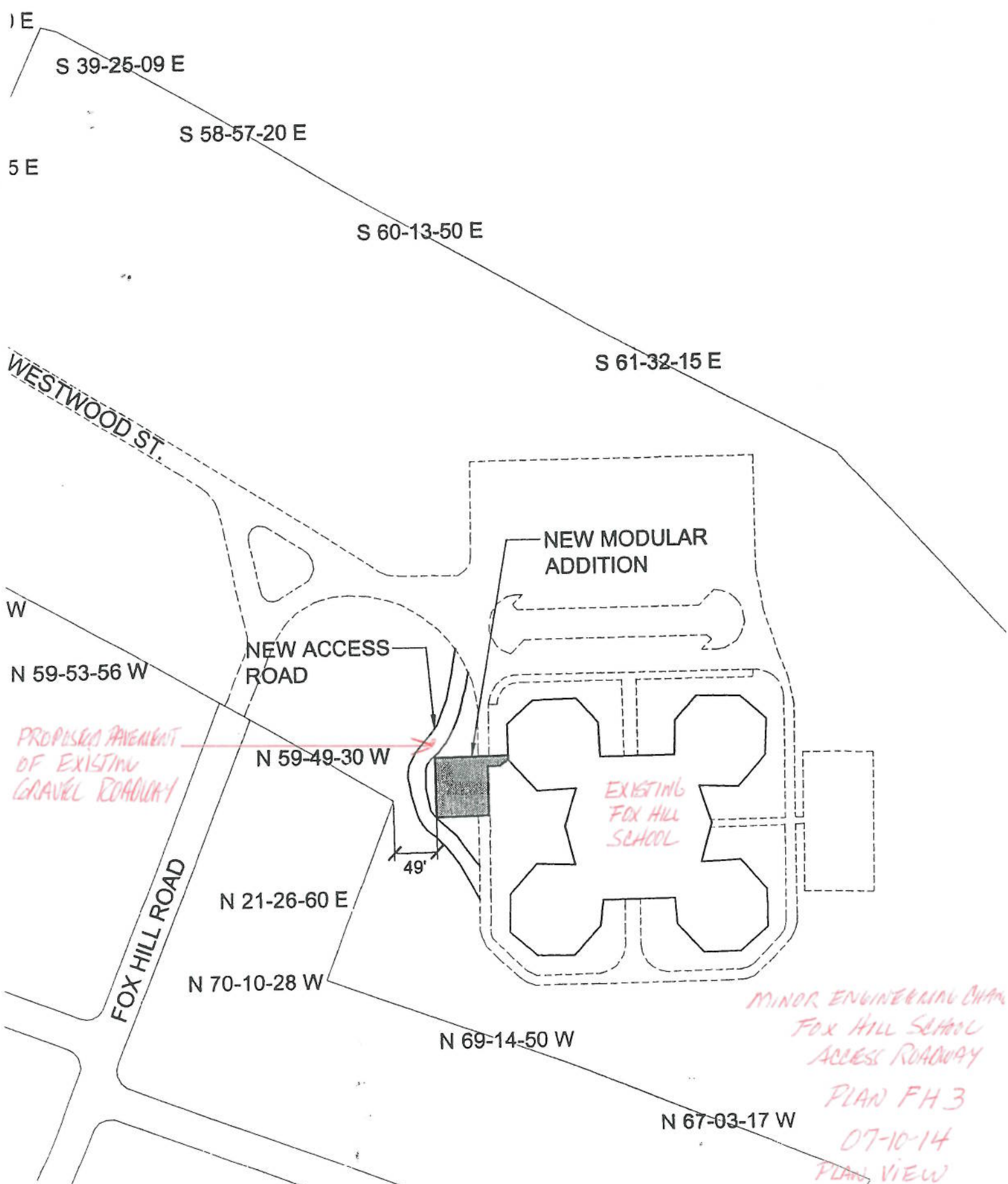
1. On June 15, 2006, the Planning Board approved the installation of temporary portable classrooms with an access roadway.
2. Condition # 6 of the approval stated that the access drive shall not be more than 10-12 feet wide and shall be of a permeable type material such as gravel or stone dust.
3. It was not anticipated at this time that this access roadway would actually become the main driveway used by parents to circle around the building to drop off students and also to be used for all deliveries to the school. (Please see picture # 1.)
4. Along with being a big nuisance to the parents when dropping off their children, this gravel roadway has been a safety concern for a few years now due to pot holes that develop weekly and gravel that washes out onto Westwood Street with cars and trucks tires picking up these stones and tossing them back towards oncoming pedestrian and automobile traffic. (Please see pictures # 2 & # 3.)
5. The attempted winter maintenance of this roadway is very costly and with all the snow, freezing and thawing that occurs during these months, it becomes an unrealistic task in that any repairs made on Monday are wiped out by the following Friday.
6. Due to all the added gravel put down over the years to fill in the pot holes, the actual width of the roadway is now an average of 20 feet wide. (Please see picture # 4.)
7. Since this roadway is used as a very important access to the safe operation of the Fox Hill School flow of traffic, the gravel surface does not meet the needs of the roadway and because it is so densely packed, it is not a permeable surface, therefore it would be a better choice to asphalt pave a 12' wide surface for this access roadway and restore the grass area as shown on submitted Proposed Plans FH3 & FH4 dated 07-10-14.

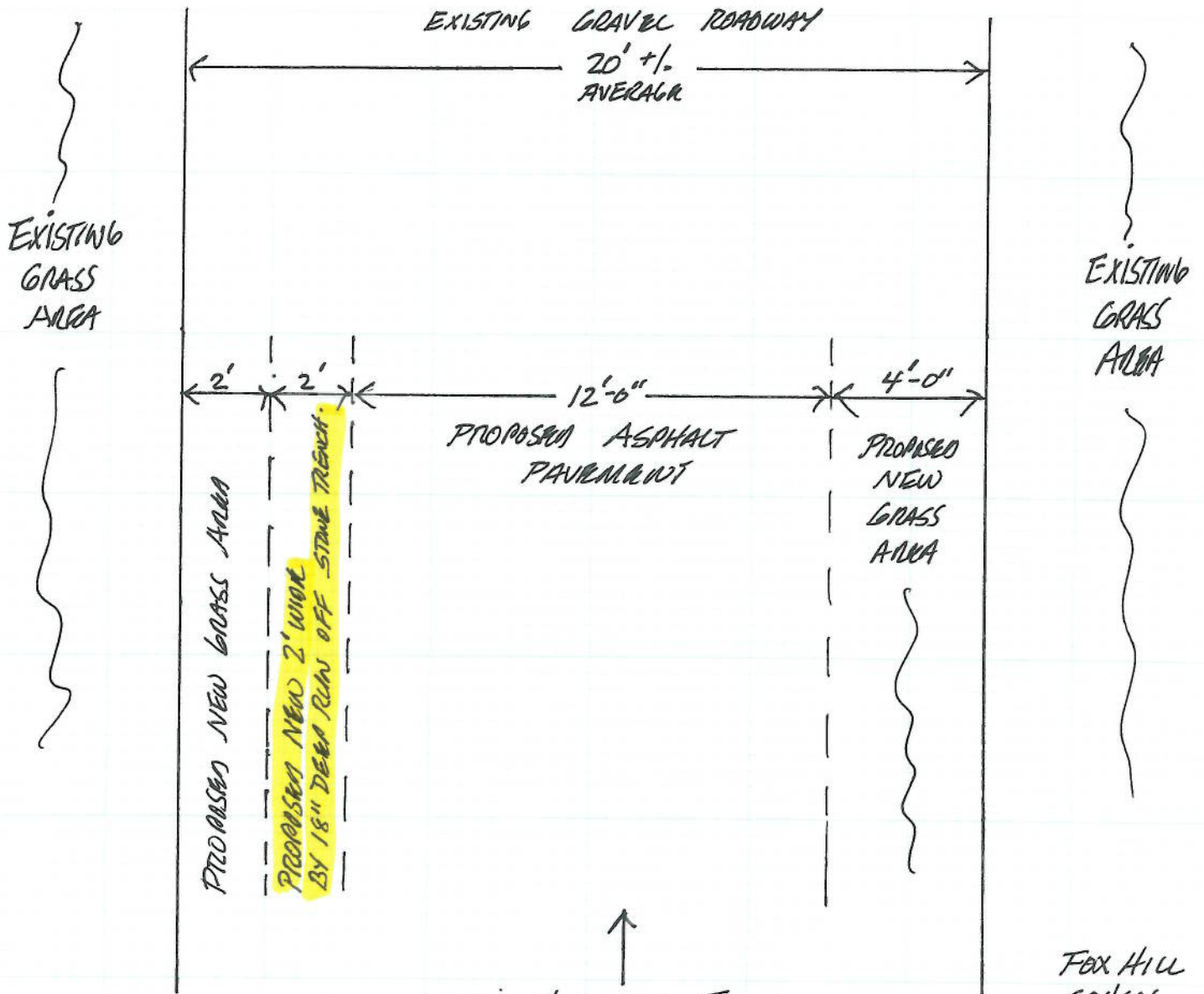
Sincerely,

A handwritten signature in black ink, appearing to read "Joe Pandolfo". The signature is fluid and cursive, with a large initial "J" and "P".

Joe Pandolfo







MINOR ENGINEERING CHANGE  
 FOX HILL SCHOOL  
 ACCESS ROADWAY  
 PLAN FH 4  
 07-10-14  
 PROPOSED DETAILS



Pic #1



PIC #2

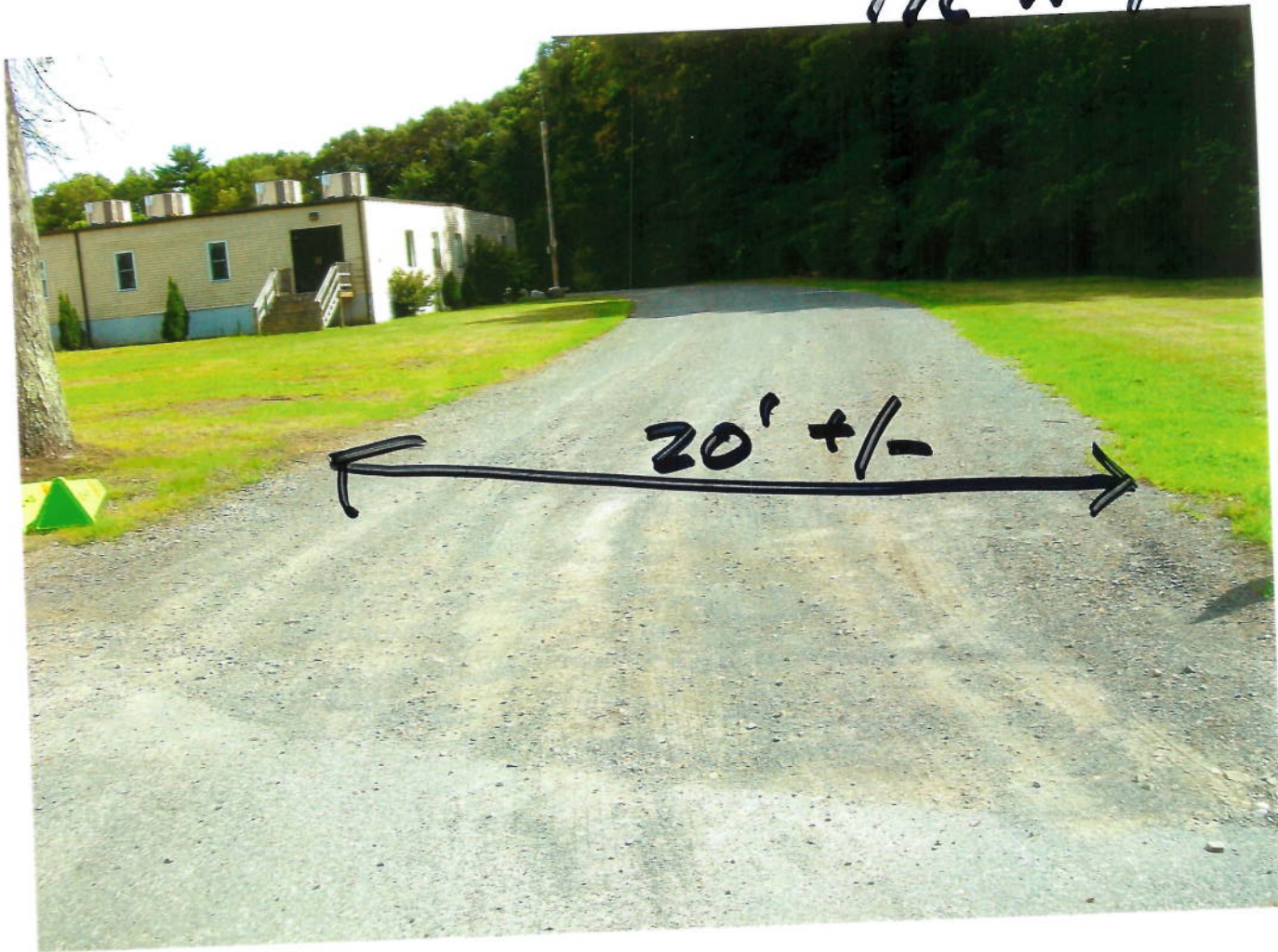




PIC # 5



MC # 4







**TOWN OF BURLINGTON**

29 CENTER STREET  
BURLINGTON, MASSACHUSETTS 01803

TOWN HALL (781) 270-1600 • FAX (781) 270-1608 • E-MAIL: [info@touthmass.org](mailto:info@touthmass.org)

RECEIVED

JUN 30 11:03 AM '06  
TOWN CLERK  
BURLINGTON, MA

**DATE:** June 30, 2006  
**TO:** Jane L. Chew, Town Clerk  
**FROM:** Kristin E. Hoffman, Assistant Planner  
**RE:** Decision - Application for Approval of a Site Plan Waiver  
– 252 Fox Hill Road, Fox Hill School – Burlington School  
Department, Applicant

At its meeting of June 15, 2006, the Planning Board made the following motions:


**MOTION** – The Planning Board finds that this is a proper request for a site plan waiver, since the plan submitted is an acceptable plan for the purposes of reviewing the proposed installation of temporary portable classrooms at this location.

**APPROVED - 6-0-0**

**MOTION** - To approve the Site Plan Waiver application of The Burlington School Department, for property located at 252 Fox Hill Road, to permit the installation of temporary portable classrooms at the existing Fox Hill School, as detailed on a plan entitled "Site plan in Burlington, MA, Fox Hill School, Fox Hill Road" prepared by KBA Architects, dated June 1, 2006, subject to the following terms and conditions:

1. The applicant and/or property owner shall comply with all building and fire safety codes, and all recommendations and conditions of the Inspector of Buildings and Fire Department pertaining to such codes. The fire alarm system shall be reviewed and approved by the Fire Department.
2. Prior to endorsement of the Site Plan by the Planning Board the Site Plan shall be revised to provide the following; a) a detail of the proposed new access road, b) any proposed utilities to service the temporary portable classrooms.
3. The applicant shall design and install a drainage system to infiltrate/mitigate the runoff from the rooftop of the proposed portable classrooms. The design shall be reviewed and approved by the Town Engineer prior to installation.

4. This approval is to permit the installation of temporary portable classrooms. In the event that they are deemed unnecessary and removed from the site the site must be brought back to the original condition or a suitable alternative condition. Any alternative shall be reviewed and approved by the Building Inspector and the Planning Director.
5. The applicant and/or property owner shall use appropriate measures to protect materials and any adjacent drainage structures from erosion and sedimentation during any excavation.



6. The temporary access drive shall be not more than 10-12 feet in width and shall be constructed of gravel, stone dust, or a similar permeable alternative. There shall be no parking along this drive and no parking signs shall be installed to the discretion of the safety officer and the Planning Director.

7. All pavement/asphalt materials removed from the premises shall be properly disposed of and documentation of such disposal shall be submitted to the Board of Health and the Conservation Commission.
8. The applicant and/or property owner comply with the recommendations and conditions of the Order of Conditions issued by the Conservation Commission. In the event that the conditions of the Conservation Commission necessitate any revision to the approved Site Plan, the applicant and/or property owner shall be required to submit a revised plan for Planning Board approval in accordance with the Planning Board's Site Plan Rules and regulations.
9. All handicapped parking shall be properly posted in accordance with the requirements of the Americans with Disabilities Act. All handicapped accessibility improvements shall comply with the Massachusetts Architectural Access Board Rules and Regulations.
10. The applicant and/or property owner shall provide twenty-four (24) hour notice to pertinent Town departments, including the Inspector of Buildings, and the General Development Inspector, prior to commencing any work on the site, which requires inspection or review by Town staff.
11. All improvements shall be constructed in accordance with the Site Plan. No deviations from the Site Plan shall be permitted without prior authorization from the Planning Board. The applicant and property owner are advised that no field modifications may be made without preliminary authorization from the Planning Staff, to determine if any subsequent applications need to be filed for further review and approval of the Planning Board.



252 Fox Hill Road  
environmental



## Town of Burlington Board of Health

61 Center St., Burlington, MA 01803  
781-270-1955 FAX 781-273-7687

To: Richard Benowitz, Principal  
Fox Hill School

December 1, 2003

From: Todd H. Dresser, CHMM, TURP  
TH Environmental Engineer

Subject: Lead and Copper Analysis Completed at Fox Hill School

On October 27, 2003, the Burlington Department of Public Works collected two water samples from a drinking fountain at the Fox Hill School. These samples were collected for lead and copper analysis. The first sample collected was found to contain 20 parts per billion (ppb) of lead and 110 ppb of copper. The concentration of lead detected exceeds the maximum contaminant level of 5 ppb specified in both the state and federal Safe Drinking Water Acts. The copper concentration was found to be acceptable. The drinking fountain was then flushed for five minutes and re-sampled. The second sample was found to contain 4 ppb of lead and less than 50 ppb of copper. This suggests that flushing may enable you to lower the lead concentration to a safe and acceptable level. This is important because lead is a strong neurotoxin that is readily absorbed by children. I have attached a copy of the sample results for your use.

I recommend that you immediately initiate a program to flush all water fountains at the school for five minutes each morning prior to the students' arrival. This approach will help to ensure that the water provided by the bubblers does not contain elevated lead concentrations. I also recommend that you contact the Water Department to make arrangements to sample each of the bubblers at the school to better assess the lead concentrations present at each bubbler. This task will enable you to determine whether the elevated lead concentration is associated with a singular bubbler or represents a condition affecting the entire school.

Please do not hesitate to contact me if you have any questions or if I can be of assistance.

Attachment.

Cc: Board of Health

- Tom Murphy, School Committee – Chairman
- Jim Picone, Superintendent of Schools
- Craig Robinson, Director of Finance & Facilities
- Paula Hayes, School Nurse
- Bill Keene, Water Treatment Plant



Town of Burlington Board of Health  
61 Center St., Burlington, MA 01803  
781-270-1955 FAX 781-273-7687

To: Richard Benowitz, Principal  
Fox Hill School

December 1, 2003

From: Todd H. Dresser, CHMM, TURP  
Environmental Engineer

Subject: Lead and Copper Analysis Completed at Fox Hill School

On October 27, 2003, the Burlington Department of Public Works collected two water samples from a drinking fountain at the Fox Hill School. These samples were collected for lead and copper analysis. The first sample collected was found to contain 20 parts per billion (ppb) of lead and 110 ppb of copper. The concentration of lead detected exceeds the maximum contaminant level of 5 ppb specified in both the state and federal Safe Drinking Water Acts. The copper concentration was found to be acceptable. The drinking fountain was then flushed for five minutes and re-sampled. The second sample was found to contain 4 ppb of lead and less than 50 ppb of copper. This suggests that flushing may enable you to lower the lead concentration to a safe and acceptable level. This is important because lead is a strong neurotoxin that is readily absorbed by children. I have attached a copy of the sample results for your use.

I recommend that you immediately initiate a program to flush all water fountains at the school for five minutes each morning prior to the students' arrival. This approach will help to ensure that the water provided by the bubblers does not contain elevated lead concentrations. I also recommend that you contact the Water Department to make arrangements to sample each of the bubblers at the school to better assess the lead concentrations present at each bubbler. This task will enable you to determine whether the elevated lead concentration is associated with a singular bubbler or represents a condition affecting the entire school.

Please do not hesitate to contact me if you have any questions or if I can be of assistance.

Attachment.

Cc: Board of Health  
Tom Murphy, School Committee - Chairman  
Jim Picone, Superintendent of Schools  
Craig Robinson, Director of Finance & Facilities  
Paula Hayes, School Nurse  
Bill Keene, Water Treatment Plant

LCR

DEPARTMENT OF ENVIRONMENTAL PROTECTION  
LEAD AND COPPER ANALYSIS REPORT

FWIS ID# 0613000 TOWN Burlington SAMPLE CODE \_\_\_\_\_  
 NAME OF STATE CERTIFIED LABORATORY RL Analytical Laboratories CERTIFIED LABORATORY ID# MACR0015  
 LEAD ANALYSIS METHOD EPA 200.9 LEAD DETECTION LIMIT 0.002 COPPER ANALYSIS METHOD EPA 200.7 COPPER DETECTION LIMIT 0.05  
 # OF SAMPLES REQUIRED \_\_\_\_\_ # OF SAMPLES SUBMITTED \_\_\_\_\_ 90<sup>th</sup> PERCENTILE LEAD\* \_\_\_\_\_ 90<sup>th</sup> PERCENTILE COPPER\* \_\_\_\_\_

LAB SAMPLE ID	COLLECTION DATE	SAMPLE COLLECTION CODE**	DEP APPROVED SAMPLE SITE**	LEAD RESULT (ppb)	LEAD ANALYSIS DATE	COPPER RESULT (ppb)	COPPER ANALYSIS DATE
0510-1597-001	10/27/03		Fox Hill School First Flush	0.020	10/29/03	0.11	10/29/03
0510-1597-002	10/27/03		Fox Hill School Five Minute Flush	0.004	10/29/03	<0.05	10/29/03

REMARKS: \_\_\_\_\_  
 WATER SUPPLIERS SHOULD MAIL TWO COPIES OF THIS FORM TO THE DEP REGIONAL OFFICE WITHIN 30 DAYS AFTER THE END OF THE REPORTING PERIOD.  
 \* THIS SECTION IS TO BE FILLED OUT BY THE WATER SUPPLIER.  
 \*\* SEE DEP LEAD & COPPER SAMPLING PLAN FOR APPROVED SAMPLING LOCATIONS.

DATE DEC 1 2003  
 SIGNATURE OF WATER SUPPLIER OR LABORATORY DIRECTOR \_\_\_\_\_  
 TITLE \_\_\_\_\_



DRESSER, TODD

To: CHAUDHURI, SYAMAL; KEENE, BILL  
 Cc: Cathy Read (E-mail 2); Ed Weiner (E-mail)  
 Subject: elevated lead level at Fox Hill School

Bill, 12/1/03

I just reviewed the lead and copper analysis prepared for the Fox Hill School. I noted the elevated lead level detected in a bubbler. It appears that flushing will help alleviate this problem. I was wondering if it would be possible for you to sample all the fountains at the school to determine if any of the other fountains are affected? Also, do you have any plans to sample the other schools?

Todd H. Dresser, CI/MM, TURP  
 Environmental Engineer  
 Burlington Board of Health  
 29 Center Street  
 Burlington, MA 01803  
 781-270-1956  
 781-273-7887 (fax)  
 tdresser@burimass.org

12/01/2003

Room	Date	Time	Temperature °F	Humidity %RH	Dyne Pressure	CO ppm	CO2 ppm	Occupants	Use Vent Operation	Observations		
Room #2	14-Feb-03	8:05:16	68.6	8.2	5.8	1	415	0	Yes	Bubbler on top		
Room #5	14-Feb-03	8:07:51	71.0	8.3	7.8	1,1	409	0	Yes	Blocked by Computer equip.		
Room #7	14-Feb-03	8:07:54	68.6	8.3	6.6	1,2	504	0	Yes	Clean		
Room #8	14-Feb-03	8:15:26	69.0	9.1	8.3	1,4	583	0	No	Clean		
Room #11	14-Feb-03	8:18:05	70.1	8.2	6.8	1,4	546	0	Yes	Blocked		
Room #13	14-Feb-03	8:18:53	70.3	7.6	5.7	1,2	484	0	Yes	Clean		
Room #15	14-Feb-03	8:19:28	73.1	8.5	9.1	1,2	483	0	Yes	Clean		
Room #16	14-Feb-03	8:19:55	71.1	8.4	8	1,1	465	0	no	Clean		
Room # 21	14-Feb-03	8:19:52	70.1	8.2	8.0	1,4	521	0	Yes	Clean		
Room # 23	14-Feb-03	8:19:53	71.5	8.3	8.2	1,4	573	0	Yes	Blocked by books		
Room #26	14-Feb-03	8:19:16	70.0	6.1	8.6	1,4	533	0	Yes	Clean		
Room #28	14-Feb-03	8:19:45	70.3	8.2	7.1	1,6	546	0	Yes	Clean		
Office Area	14-Feb-03	8:21:55	71.2	16.6	13.3	1,3	750	6	no	Clean		
CAF	14-Feb-03	8:22:10	70.8	9.8	11.3	1,6	804	3	Yes	NA		
Outside Data	14-Feb-03	8:27:50	25.1	9.9	-9.1	0	485	NA	NA	NA		
Standard Average							70.6	8.6	8.1	1.3	543.2	

0022 6 120

**LOCKARD, BRIAN**

**From:** alex@cleansoils.com  
**To:** TODD DRESSER; BRIAN LOCKARD  
**Subject:** Septic System closure  
**Date:** Monday, August 07, 2000 4:44PM

<<File Attachment: FILE0001.HTM>>  
Dear Todd and Brian,

Below is the procedure, as it stands, for closing the Fox Hill and Marshall Simonds School septic systems. Please look them over and give me any comments you may have.

The use of sand is proposed at both schools' septic tanks because sand is discussed in the regulations, and sand is six times cheaper than concrete slurry. It should be noted however, that even if water doesn't infiltrate through the sand some settling may occur over time and some voids may be created if sand is just poured into an excavation.

To minimize the settling we have proposed to remove only the portion of the top of the tanks to allow the tanks to be filled with sand. Slurry will be added up to the level of the top of the tank, and the steel manhole will be placed over the hole to provide some support. The fill up to grade will be compacted with the excavator.

The way to ensure no voids and no settling is to completely remove the top of the tank and compact the sand in lifts using a compactor before the slurry is added. This of course is more expensive and I know that the Town does not have a large budget for this project.

We want to conduct this closure under Board of Health approval, in a cost effective way. We also do not want to be responsible for settling that may occur at the site in the future.

-Alexander Panic  
Clean Soils Environmental, Ltd.

**Procedure for Fox Hill School Septic System Closure**

- 1.. The Town of Burlington will pump out all liquids currently present in the septic tank (stormwater).
- 2.. Maxymilian, under CSE oversight, will break open the top of the septic tank in the vicinity of the two manholes.
- 3.. The remaining two manholes covering the leach field distribution valves will also be removed. 4.. The excavator will be used to attempt to rupture the bottom of the septic tank
- 5.. The septic tank will be filled to 2-3 feet of the top of the tank with sand.
- 6.. The remaining depth to the former top of the tank will be filled

with concrete slurry

- 7.. The manholes will be placed on top of the slurry and the remaining excavation filled to approximately 1 foot of grade with clean bank gravel.
  - 8.. The excavation will be brought to grade with loam.
- Procedure for Marshall Simonds Septic System

- 1.. The Town of Burlington will coordinate the removal of septic sludge and wastewater from the septic tank. The septic water may be pumped (recirculated) back into the tank to loosen recalcitrant sludge that has settled to the bottom. CSE will oversee the pump out and document the final condition of the tank.
  - 2.. Maxymilian, under CSE oversight, will break open the top of the septic tank in the vicinity of the two manholes.
  - 3.. The remaining two manholes covering the leach field distribution valves will also be removed. 4.. The two concrete leach-field distribution boxes will also be removed.
  - 5.. The septic tank will be filled to 2-3 feet of the top of the tank with sand.
  - 6.. The remaining depth to the former top of the tank will be filled with concrete slurry
  - 7.. The manholes will be placed on top of the slurry and the remaining excavation filled to approximately 1 foot of grade with clean bank gravel.
  - 8.. The excavation will be brought to grade with loam.
- Only enough of the tops of the tanks will be broken up to allow the tanks to be easily filled with sand. Any debris from the demolition of the manways etc. will be placed in the septic tanks prior to filling with sand.



**LOCKARD, BRIAN**

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**From:** LOCKARD, BRIAN  
**To:** Alexander Panic  
**Subject:** Pumping Records  
**Date:** Tuesday, September 05, 2000 1:52PM

Hello Alex,

We did receive the pumping records for the septic tanks at the Fox Hill School and Marshall Simonds Middle School. The records were provided by Doug Gillingham and indicate that these structures were emptied by Bob Griffin & Sons, Inc. If you have any questions please let me know.

Thanks,

Brian Lockard  
Burlington Health Agent

**LOCKARD, BRIAN**

---

**From:** LOCKARD, BRIAN  
**To:** RITTENBERG, LARRY  
**Cc:** DRESSER, TODD  
**Subject:** Title 5 Variance  
**Date:** Thursday, July 27, 2000 10:37AM

Hello Larry,

Good news and bad news.

Good News:

I spoke with DEP today and I can file the variance for the Town and they promised to issue an approval within a few days.

Bad News:

DEP will require the removal of the sludge from the tank prior to abandonment. The tank can be abandoned in place with the concrete slurry but they will not allow the sludge to remain. I discussed this issue with Claire Golden of DEP and she indicated that her department always requires the removal of sludge and would not modify this condition. If you either you or Alexander Panic wishes to discuss this with her she can be reached at the Wilmington office at 781-661-7600.

If you have any questions please let me know.

Brian

**LOCKARD, BRIAN**

**From:** alex@cleansoils.com  
**To:** LARRY RITTENBERG; DOUG GILLINGHAM; TODD DRESSER; BRIAN LOCKARD  
**Subject:** Septic system closures  
**Date:** Tuesday, August 15, 2000 9:37AM

<<File Attachment: FILE0001.HTM>>

This is to confirm that the closure of the Fox Hill Septic system closure is schedule for Tuesday August 15, 2000. The septic system will be pumped out starting at 7:30 a.m. and the decommissioning will begin immediately thereafter. The Septage Hauler will then proceed to pump out the Marshall Simonds Middle School septic system. The Marshall Simonds septic system is scheduled to be closed the following day, Wednesday August 16, 2000.

A representative of the Burlington Board of Health is required to be present at both sites to approve the closure. On those days I can be reached on my cell phone (978) 852-9172. If, for some reason I am unavailable, please contact Dan at (978) 852-5985.

Please call me with any questions.

-Alexander Panic  
Clean Soils Environmental, Ltd.

**LOCKARD, BRIAN**

**From:** DRESSER, TODD  
**To:** alex@cleansoils.com; BRIAN LOCKARD  
**Subject:** RE: Septic System closure  
**Date:** Tuesday, August 08, 2000 8:19AM

Alex,

Your proposal looks acceptable. You may proceed. Remember that someone from the Board of Health needs to inspect the tank after it has been pumped and prior to filling.

Todd

-----  
**From:** alex@cleansoils.com  
**To:** TODD DRESSER; BRIAN LOCKARD  
**Subject:** Septic System closure  
**Date:** Monday, August 07, 2000 4:44PM

<<File Attachment: FILE0001.HTM>>

Dear Todd and Brian,

Below is the procedure, as it stands, for closing the Fox Hill and Marshall Simonds School septic systems. Please look them over and give me any comments you may have.

The use of sand is proposed at both schools' septic tanks because sand is discussed in the regulations, and sand is six times cheaper than concrete slurry. It should be noted however, that even if water doesn't infiltrate through the sand some settling may occur over time and some voids may be created if sand is just poured into an excavation.

To minimize the settling we have proposed to remove only the portion of the top of the tanks to allow the tanks to be filled with sand. Slurry will be added up to the level of the top of the tank, and the steel manhole will be placed over the hole to provide some support. The fill up to grade will be compacted with the excavator.

The way to ensure no voids and no settling is to completely remove the top of the tank and compact the sand in flights using a compactor before the slurry is added. This of course is more expensive and I know that the Town does not have a large budget for this project.

We want to conduct this closure under Board of Health approval, in a cost effective way. We also do not want to be responsible for settling that may occur at the site in the future.

-Alexander Panic  
Clean Soils Environmental, Ltd.



**LOCKARD, BRIAN**

From: DRESSER, TODD  
 To: FIELDS, TONY  
 Cc: VANPRIN@prodigy.net; LOCKARD, BRIAN; MONACO, CHRIS; WEINER, EDWARD  
 Subject: Fox Hill School Site Plan Waiver  
 Date: Wednesday, August 18, 1999 10:37AM

Tony,

Brian Lockard and I have reviewed the site plan waiver application submitted for the Fox Hill School. We have prepared the following comments for the consideration and use of the Planning Board.

During the recent removal of an underground storage tank at Fox Hill, we found that the septic system formerly used by the school had not been filled when it was abandoned. This rather large underground holding tank is located next and possibly under the existing play ground equipment at the school. We strongly recommend that this tank be filled and properly abandoned in accordance with the state sanitary code in order to eliminate this safety hazard. We recommend that this be completed as soon as possible.

Do not hesitate to contact us if you have any questions.

Todd

COMMONWEALTH OF MASSACHUSETTS  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 DIVISION OF HAZARDOUS MATERIALS  
 One Winter Street Boston, Massachusetts 02108

Form designed for use on 8 1/2" x 11" (12-page) typewriter

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MP7812761922	2. Manifest Document No. 25312	3. Page 1 of 1	4. Information in the checked areas is not required by Federal law.
5. Generator's Name and Mailing Address TOWN OF BURLINGTON 29 CENTER ST. BURLINGTON, MA 01830				6. State Manifest Document Number MA K 725312	
7. Generator's Phone 781-276-1922		8. US EPA ID Number MAXIMILLION TECHNOLOGIES MA5CE2201867		9. State Gen. ID 252 FOX HILL RD. BURLINGTON MA 01830	
10. Designated Facility Name and Site Address ENVIRONMENTAL COMPLIANCE CORPORATION 4418 CANNON ST. SMITHFIELD, MA 02072		11. US EPA ID Number MA0062179890		12. State Trans. ID MA34407	
13. Description (including Proper Shipping Name, Hazard Class and ID Number) WASTE PETROLEUM LIQUIDS 3, NAPHTH, PETL		14. Quantity 001 TT		15. State Trans. ID 3010 G	
16. Additional Descriptions for Materials Listed Above (as to physical state and hazard code) (L) 4% OIL IN WATER		17. Handling Codes for Wastes Listed Above T H 6		18. Facility's Phone 781-277-3530	
19. Special Handling Instructions and Additional Information 24 HR EMERGENCY PHONE # 781-941-6536 ERG 128					
20. Facility's Signature (Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19) Signature: M. J. Conway Date: 8/18/99					
21. Transporter's Acknowledgment of Receipt of Materials Signature: Jonathan Small Date: 8/18/99					
22. Transporter's Acknowledgment of Receipt of Materials Signature: Date: 8/18/99					
23. Recipient's Acknowledgment of Receipt of Materials Signature: Date: 8/18/99					

Form Approved OMB No. 2040-0003, 11 pages 8-98  
 EPA Form 350 (Rev. 8-98) Previous editions are obsolete

In case of emergency or spill, immediately call the National Response Center (800) 424-8802

MA K 725312 COPY-3 FACILITY HELD TO GENERATOR



**CERTIFICATE OF DISPOSAL/RECYCLING**

Manifest #: MAK 725312

This is to certify that the material received from your facility has been managed at Environmental Compliance Corporation (ECC) or another licensed facility, which has been approved by ECC in accordance with all applicable federal, state, and local laws, statutes, and regulations.

Recyclable material has been blended for use in accordance with all applicable federal, state, and local statutes, laws and regulations at ECC, a licensed facility.

All materials consolidated at ECC and subsequently shipped to another licensed facility for treatment and disposal, shall be identified as being generated by ECC.

ECC shall indemnify the generator from any claims as result of damage to any property, contamination of, or adverse effects of the environment, any violation of governmental laws, regulations or orders, caused by treatment and disposal of the material specified on this manifest.

Waste Description	Treatment/Disposal Method	Facility
Combustible Liquids Oils n.o.s. NA 1270 MA 97/98	<u>T-46</u>	ECC 441R Canton St Stoughton, MA 02072

Authorized by: [Signature] Date: 7-15-99

Regional Customer Service 1-800-982-0153  
441R Canton Street • Stoughton • MA 02072 • 617-297-3530  
106 Main Street • South Portland • ME 04106 • 207-789-7337



COMMONWEALTH OF MASSACHUSETTS  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF HAZARDOUS MATERIALS  
One Winter Street Boston, Massachusetts 02108

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

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address		4. Generator's Phone		A. State Manifest Document Number <b>MA K 725312</b>	
5. Transporter 1 Company Name		6. US EPA ID Number		B. State Gen. ID	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Trans. ID	
9. Designated Facility Name and Site Address		10. US EPA ID Number		D. Transporter's Phone	
				E. State Trans. ID	
				F. Transporter's Phone	
				G. State Facility's ID NOT REQUIRED	
				H. Facility's Phone	
11. US DOT Description (including Proper Shipping Name, Hazard Class and ID Number)		12. Containers	13. Total Weight	14. Waste ID	
a. <u>[Description]</u>		No. Type	3010	9911	
b.					
c.					
d.					
J. Additional Descriptions for Materials Listed Above (include physical state and hazard code)		K. Handling Codes for Wastes Listed Above			
a. <u>[Description]</u>		a.		b.	
b.		c.		d.	
15. Special Handling Instructions and Additional Information					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated in the degree I have determined to be necessary for 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 most waste management method that is available to me and that I can afford.					
Printed/Typed Name		Signature		Date	
17. Transporter 1 Acknowledgment of Receipt of Materials		Signature		Date	
Printed/Typed Name		Signature		Date	
18. Transporter 2 Acknowledgment of Receipt of Materials		Signature		Date	
Printed/Typed Name		Signature		Date	
19. Discrepancy Indicial Space					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19					
Printed/Typed Name		Signature		Date	

In case of emergency or spill, immediately call the National Response Center (800) 424-8802

MA 725312 COPY#4: GENERATOR RETAINS

COPY#4: GENERATOR RETAINS





COMMONWEALTH OF MASSACHUSETTS  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF HAZARDOUS MATERIALS  
One Winter Street Boston, Massachusetts 02108



CERTIFICATE OF DISPOSAL/RECYCLING

Manifest #: MAK725414

This is to certify that the material received from your facility has been managed at Environmental Compliance Corporation (ECC) or another licensed facility, which has been approved by ECC in accordance with all applicable federal, state, and local laws, statutes, and regulations.

Recyclable material has been blended for use in accordance with all applicable federal, state, and local statutes, laws and regulations at ECC, a licensed facility.

All materials consolidated at ECC and subsequently shipped to another licensed facility for treatment and disposal, shall be identified as being generated by ECC.

ECC shall indemnify the generator from any claims as result of damage to any property, contamination of, or adverse effects on the environment, any violation of governmental laws, regulations, or orders, caused by treatment and disposal of the material specified on this manifest.

Waste Description	Treatment/Disposal Method	Facility
Combustible Liquids Oils n.o.s.	T-46	ECC 441R Canton St. Stoughton, MA 02072

Authorized by: [Signature]  
Date: 7-16-99

Regional Customer Service 1-800-882-0153  
441R Canton Street • Stoughton • MA 02072 • 617-297-9530  
106 Main Street • South Portland • ME 04106 • 207-799-7337

In case of emergency or spill, immediately call the National Response Center (800) 424-6802

Form designed for use on 08/12/92 (12 pages) (generator)

Please print or type

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <u>MAK 725414</u>	Manifest Document No. <u>25414</u>	2. Page 1 of 12	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address <u>Town of Burlington 29 CENTER STREET BURLINGTON, MA 01830</u>		A. State Manifest Document Number <u>MA K 725414</u>		B. State Gen. ID <u>252 Fox Hill Rd. BURLINGTON MA 01830</u>	
4. Generator's Phone <u>2812701922</u>		G. US EPA ID Number <u>MA5-000001862</u>		C. State Gen. ID <u>MA 34407</u>	
5. Transporter 1 Company Name <u>Staxi Milling Technologies</u>		H. US EPA ID Number <u>MA5-000001862</u>		D. State Gen. ID <u>508-999-6536</u>	
6. Transporter 2 Company Name		I. US EPA ID Number		E. State Gen. ID <u>NOT REQUIRED</u>	
9. Designated Facility Name and Site Address <u>ENVIRONMENTAL COMPLIANCE CORPORATION 441R CANTON STREET STOUGHTON, MA 02072</u>		10. US EPA ID Number <u>MA006219890</u>		F. Transporter's Phone <u>201-297-3530</u>	
11. US DOT Description (including Proper Shipping Name, Hazard Class and ID Number) <u>WASTE PETROLEUM LIQUID 3, NA1993, PG III</u>		12. Quantity <u>3940 G</u>	13. Material <u>MA 9R</u>	H. Facility's Phone <u>201-297-3530</u>	
J. Additional Descriptions for Materials Listed Above (for use in physical state and hazard code) <u>(1) #4 FUEL OIL + WATER</u>		K. Handling Code for Wastes Listed Above <u>T1416</u>			
15. Special Handling Instructions and Additional Information <u>24 HOUR EMERGENCY PHONE # 508-999-6536</u>		L. State Gen. ID <u>ERC 128</u>			
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this certification 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 governmental regulations. If I am a large quantity generator, I certify that I have a program in place to collect the volume and locality of waste generated to the degree I have determined to be economically practicable and that I have selected the method of treatment, storage, or disposal currently available to me which minimizes the potential for release to the environment and the greatest extent practicable. If I am a small quantity generator, I have taken 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.					
17. Transporter 1 Acknowledgment of Receipt of Materials Printed Name: <u>Jonathan Small</u> Signature: <u>[Signature]</u> Date: <u>07/16/99</u>		18. Transporter 2 Acknowledgment of Receipt of Materials Printed Name: <u>[Signature]</u> Signature: <u>[Signature]</u> Date: <u>07/16/99</u>			
19. Emergency Response Page		20. Facility Owner or Operator. Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed Name: <u>[Signature]</u> Signature: <u>[Signature]</u> Date: <u>07/16/99</u>			

MA K 725414 COPY 2: FACILITY MAILS TO GENERATOR

COPY 2: FACILITY MAILS TO GENERATOR



COMMONWEALTH OF MASSACHUSETTS  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF HAZARDOUS MATERIALS  
One Winter Street Boston, Massachusetts 02108

Form designed for use on side (12-pick) typewriter

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MP 2812701922		Manifest Document No. 25313		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address Town of Burlington 27 Center Street Burlington MA 01830				A. State Manifest Document Number MA K 725414		B. State Gen. ID 252 Fox Hill Road Burlington MA 01830		C. State Trans. ID MA 24407	
4. Generator's Phone 781 270 1922		5. Generator's Name Maximilian Technologies		6. US EPA ID Number MA5000001867		7. US EPA ID Number MA 34407		8. US EPA ID Number MA 34407	
9. Designated Facility Name and Site Address Environmental Compliance Corporation 441 R Canton Street Stoughton MA 02072				10. US EPA ID Number MA062179890		11. Facility's Phone 781 297 3530		12. Facility's Name Environmental Compliance Corporation	
11. US DOT Description (including Proper Shipping Name, Hazard Class and ID Number)		12. Containers		13. Total Quantity		14. Waste ID		15. Waste ID	
a. Waste Petroleum Liquid 3, NA 1993, PG III		b. 001 TL		c. 600 G		d. MA 98		e. MA 98	
J. Additional Descriptions for Materials Listed Above (include physical state and hazard code)				K. Handling Codes for Wastes Listed Above					
a. (1) #4 Fuel Oil + Water				a. T1416					
16. Special Handling Instructions and Additional Information 24 Hour Emergency Phone # 508-949-6536 ERG #128									
17. 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 governmental regulations.									
Printed/Typed Name		Signature		Date		Date			
17. Transporter 1 Acknowledgment of Receipt of Materials		Signature		Date		Date			
18. Transporter 2 Acknowledgment of Receipt of Materials		Signature		Date		Date			
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19									
Printed/Typed Name		Signature		Date		Date			
Tom B. Tuomey		Tom B. Tuomey		2/16/92		2/16/92			

In case of emergency or spill, immediately call the National Response Center (800) 424-9802

MA K725414 COPY>A: GENERATOR RETAINS

COPY>A: GENERATOR RETAINS



COMMONWEALTH OF MASSACHUSETTS  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF HAZARDOUS MATERIALS  
One Winter Street Boston, Massachusetts 02108

Form designed for use on side (12-pick) typewriter

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MP 2812701922		Manifest Document No. 25313		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address Town of Burlington 27 Center Street Burlington MA 01830				A. State Manifest Document Number MA K 725313		B. State Gen. ID 252 Fox Hill Road Burlington MA 01830		C. State Trans. ID MA 34407	
4. Generator's Phone 781 270 1922		5. Generator's Name Maximilian Technologies		6. US EPA ID Number MA5000001867		7. US EPA ID Number MA 34407		8. US EPA ID Number MA 34407	
9. Designated Facility Name and Site Address Environmental Compliance Corporation 441 R Canton Street Stoughton MA 02072				10. US EPA ID Number MA062179890		11. Facility's Phone 781 297 3530		12. Facility's Name Environmental Compliance Corporation	
11. US DOT Description (including Proper Shipping Name, Hazard Class and ID Number)		12. Containers		13. Total Quantity		14. Waste ID		15. Waste ID	
a. Waste Petroleum Liquid 3, NA 1993, PG III		b. 001 TL		c. 600 G		d. MA 98		e. MA 98	
J. Additional Descriptions for Materials Listed Above (include physical state and hazard code)				K. Handling Codes for Wastes Listed Above					
a. (1) #4 Fuel Oil + Water				a. T1416					
16. Special Handling Instructions and Additional Information 24 Hour Emergency Phone # 508-949-6536 ERG #128									
17. 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 governmental regulations.									
Printed/Typed Name		Signature		Date		Date			
17. Transporter 1 Acknowledgment of Receipt of Materials		Signature		Date		Date			
18. Transporter 2 Acknowledgment of Receipt of Materials		Signature		Date		Date			
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19									
Printed/Typed Name		Signature		Date		Date			
Tom B. Tuomey		Tom B. Tuomey		2/16/92		2/16/92			

In case of emergency or spill, immediately call the National Response Center (800) 424-9802

MA K 725313 COPY>A: FACILITY MAITS TO GENERATOR

COPY>B: FACILITY MAITS TO GENERATOR





**CERTIFICATE OF DISPOSAL/RECYCLING**

Manifest #: MAK 725313

This is to certify that the material received from your facility has been managed at Environmental Compliance Corporation (ECC) or another licensed facility which has been approved by ECC in accordance with all applicable federal, state, and local laws, statutes, and regulations.

Recyclable material has been blended for use in accordance with all applicable federal, state, and local statutes, laws and regulations at ECC, a licensed facility.

All materials consolidated at ECC and subsequently shipped to another licensed facility for treatment and disposal, shall be identified as being generated by ECC.

ECC shall indemnify the generator from any claims as result of damage to any property, contamination of, or adverse effects on the environment, any violation of governmental laws, regulations, or orders, caused by treatment and disposal of the material specified on this manifest.

Waste Description	Treatment/Disposal Method	Facility
Combustible Liquids Oils n.c.s. NA 1270 MA 97/98	F46	ECC 441R Canton St. Stoughton, MA 02072

Authorized by: Eric R. Sawyer Date: 7/30/99

Regional Customer Service 1-800-882-0153  
441R Canton Street • Stoughton • MA 02072 • 617-297-3530  
106 Main Street • South Portland • ME 04106 • 207-799-7337



COMMONWEALTH OF MASSACHUSETTS  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF HAZARDOUS MATERIALS  
One Winter Street Boston, Massachusetts 02108

Please print or type. (Form designed for use on either 12-inch typewriter)

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of	Information in the shaded areas is not required by Federal law.
	<u>MAK 725313</u>	<u>75313</u>		
3. Generator's Name and Mailing Address:			A. State Manifest Document Number	
<u>Town of Burlington 27 CENTER STREET BURLINGTON MA 01830</u>			<u>MA K 725313</u>	
4. Generator's Phone: <u>781-270-1932</u>			B. State Gen. ID	
			<u>252 Fox Hill Road Stoughton MA 01770</u>	
5. Transporter 1 Company Name		6. US EPA ID Number	C. State Trans. ID	
<u>Waste Transfer Technical Serv.</u>		<u>MA5000051867</u>	<u>MA 32407</u>	
7. Transporter 2 Company Name		6. US EPA ID Number	D. Transporter's Phone	
			<u>603-949-6536</u>	
9. Designation Facility Name and Site Address			10. US EPA ID Number	
<u>Environmental Compliance Corporation 441R Canton Street Stoughton MA 02072</u>			<u>MA02072900</u>	
11. US DOT Description (including Proper Shipping Name, Hazard Class and ID Number)			12. Confined Sol.	13. Qty.
a. <u>Waste Petrol. Liquid 3. NA 1793, PG 10</u>				
			14. Gen. ID	15. State
			<u>MA</u>	<u>98</u>
14. Additional Descriptions for Materials Listed Above (include physical state and hazard code).			K. Handling Codes for Wastes Listed Above	
a. <u>(L) 4 Fuel Oil's Water</u>			a.	b.
			c.	d.
15. Special Handling Instructions and Additional Information				
<u>24 Hr. Emergency Phone # 603-949-6536 Ext. 135</u>				
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.				
Printed/Typed Name		Signature	Date	
			<u>7/30/99</u>	
17. Transporter 1 Acknowledgment of Receipt of Materials				
Printed/Typed Name		Signature	Date	
<u>Joseph Smith</u>			<u>7/30/99</u>	
18. Transporter 2 Acknowledgment of Receipt of Materials				
Printed/Typed Name		Signature	Date	
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest, except as noted in item 19				
Printed/Typed Name		Signature	Date	

In case of emergency or spill, immediately call the National Response Center (800) 424-9802

COPY 5: GENERATOR RETAINS

COPY 5: GENERATOR RETAINS

Form Approved OMB No. 2010-0019 Expires 8-30-08  
EPA Form 610-22 (Rev. 9-98) Previous editions are obsolete



COMMONWEALTH OF MASSACHUSETTS  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF HAZARDOUS MATERIALS  
One Winter Street Boston, Massachusetts 02108

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

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <i>MA K 725318</i>	Manifest Document No. <i>MA K 725318</i>	2. Page 1 of <i>1</i>	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address				A. State Manifest Document Number <b>MA K 725318</b>	B. State Gen. ID
4. Generator's Phone		6. US EPA ID Number		C. State Trans. ID	
5. Transporter 1 Company Name		7. US EPA ID Number		D. Transporter's Phone	
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Trans. ID	
8. Designated Facility Name and Site Address				F. Transporter's Phone	
10. US EPA ID Number				G. State Facility's ID NOT ACQUIRED	
H. Facility's Phone					
11. US DOT Description (including Proper Shipping Name, Hazard Class and ID Number)		12. Container No.	13. Qty.	14. Total Quantity	15. Waste No.
a.					
b.					
c.					
d.					
J. Additional Descriptions for Materials Listed Above (include physical state and hazard code)				K. Handling Codes for Wastes Listed Above	
a.		c.		a.	b.
b.		d.		b.	c.
15. Special Handling Instructions and Additional Information					
16. GENERATOR'S CERTIFICATION. I hereby declare that the contents of this document 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. 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 <i>Nick H. Kelly</i>		Signature <i>Nick H. Kelly</i>		Date Month Day Year <i>8 10 1999</i>	
17. Transporter 1 Acknowledgment of Receipt of Materials		Signature		Date	
Printed/Typed Name		Signature		Date	
18. Transporter 2 Acknowledgment of Receipt of Materials		Signature		Date	
Printed/Typed Name		Signature		Date	
19. Discrepancy/Correction Space					
20. Facility Owner or Operator. Certification of receipt of hazardous materials covered by this manifest except as noted in item 19					
Printed/Typed Name		Signature		Date	
Printed/Typed Name		Signature		Date	

In case of emergency or spill, immediately call the National Response Center (800) 424-8802

MA K725318 COPY-B: GENERATOR RETAINS



August 10, 1999

COPY

Mr. Larry Rittenberg, Assistant Town Administrator  
Town of Burlington  
Town Hall  
29 Center Street  
Burlington, MA 01803

Re: Underground Storage Tank Closure Assessment  
Fox Hill Elementary School  
252 Fox Hill Road  
Burlington, MA 01803  
CSE Project # 99019

Dear Mr. Rittenberg:

Clean Soils Environmental, Ltd. (CSE) is pleased to submit this letter report with the results of an Underground Storage Tank (UST) Closure Assessment conducted at the above mentioned location, hereinafter referred to as the "Site."

The purpose of the UST Closure Assessment is to determine if a significant release of oil had impacted the environment (i.e., soil) from a UST area at the Site, which is shown on Figures 1 and 2 in the Appendix.

Oil & Hazardous Waste Assessment & Cleanup Professionals

POST OFFICE BOX 591, IPSWICH, MA 01938

Voice: 978.356.1177 Fax: 978.356.1849 E-mail: info@cleansoils.com Web site: http://www.cleansoils.com

COPY-B: GENERATOR RETAINS



## 1.0 BACKGROUND

The Site is located at an elementary school. CSE was contacted to observe the removal of one (1) steel, single-walled, 8,000-gallon UST that was used to store fuel oil, and measure for the potential presence of contamination to soil from the UST. According to you, the UST was used to store #4 Fuel Oil. According to Mr. Ronnie Danielson, Senior Custodian at Fox Hill Elementary School, the tank was installed approximately 33 years ago, just prior to the construction of the school building.

## 2.0 UST REMOVAL

On July 19, 1999, Maxymillian Technologies, Inc. (MAXYMILLIAN) of Webster, MA, removed the UST from the Site. The UST was located on the southern side of the school, approximately 10 feet from the loading dock, as shown on Figure 1.

## 3.0 SOIL SAMPLE FIELD SCREENING

CSE collected a total of 15 soil samples during the UST removal at the Site. CSE collected 2 soil samples from the vicinity of the feed and return lines on the eastern side of the UST (PIPERUN1 and PIPERUN2). CSE collected 8 samples from various areas of the sidewalls of the excavation (SW1-SW8). CSE collected 2 samples near the UST's fill pipe at varying depths (FP1 and FP2). Two samples were collected from the bottom of the excavations (BOT1 and BOT2), and two soil samples were collected near the vent-pipe of the former UST (VP1 and VP2). Figure 2 in the Appendix shows the soil sample locations in reference to the tank grave at the Site.

The depth that each soil sample was collected is shown on Table 1 in the Appendix. Each soil sample was screened for total organic vapors (TOVs) with a photoionization detector (PID) via jar headspace procedures (procedure enclosed in Appendix). Table 1 shows the headspace screening results, which ranged from 0.4 to 26.5 parts per million by volume (ppmv).

## 4.0 OBSERVATIONS MADE DURING THE UST REMOVAL

On July 19, 1999, CSE observed and measured the soil around the fill pipe (on top of the UST) for possible contamination due to overfilling or overspilling prior to the UST removal. There was

some petroleum-contaminated soil (PCS) around the fill pipe from approximately 0 – 1 feet below the ground surface. This soil was stained, had a slight petroleum odor, and had a headspace reading of 26.5 ppmv. This PCS was removed by hand (i.e., shovel), placed into 55-gallon drums, and transported from the Site under Manifest.

Soil around the UST was well-sorted sand. Therefore, the sidewalls of the excavation were continuously sloughing into the excavation. This required CSE and Maxymillian to work fast. In other words, it was important to attempt to remove the UST quickly so the sidewalls of the excavation would not cave into the excavation and undermine the slab foundation of the building.

After the UST was removed, CSE observed the soil on the sidewalls and bottom of the tank grave for evidence of contamination. Obvious evidence of contamination (i.e., stained soils and petroleum odors) was not observed in the tank grave. CSE did observe groundwater in the bottom of the former UST grave. The surface of the groundwater did not have a petroleum sheen. CSE observed the UST for any obvious holes, which were not observed. The removed UST system (including fill pipe) did not show evidence of corrosion or a leak. The feed and return lines were not removed. CSE believes that removal of these lines would have undermined the foundation of the building.

## 5.0 SOIL SAMPLE LABORATORY SCREENING

On July 19, 1999, CSE collected three soil samples from the former UST grave for laboratory analysis. One soil sample (BOT2) was collected from the bottom of the excavation, another was collected from a sidewall (SW6), and the third sample was taken from the vicinity of the fill pipe (FP2). These sample locations are shown on Figure 2 in the Appendix and were chosen based on soil screening results and where CSE would expect to find contamination if present. The three soil samples were analyzed for Extractable Petroleum Hydrocarbons (EPH) by GC/FID.

The samples were collected in pre-cleaned glass jars provided by the laboratory, immediately placed on ice for preservation, and transported by courier to a Massachusetts Certified laboratory for analysis.

## 6.0 SOIL LABORATORY RESULTS

The laboratory testing results for all three soil samples (i.e., BOT2, FP2, and SW6) were below the laboratory's reporting limit (BRL) for the EPH Ranges and the Target Analytes (e.g., Naphthalene). In other words, the laboratory did not detect significant contamination in any of the three soil samples.

## 7.0 MANAGEMENT OF TANK REMOVAL WASTE

Prior to removal, Maxymillian pumped approximately 6500 gallons of #4 Fuel Oil from the UST. Maxymillian pumped out 3010 gallons on July 14, 1999, 2940 gallons on July 15, 1999, and 600 gallons on July 19, 1999. This fuel oil was taken from the Site under Manifest to Environmental Compliance Corporation (ECC) in Stoughton, MA. Please see the Appendix for a copy of these manifests.

Also prior to removal, Maxymillian cleaned the tank by hand. Maxymillian estimated that a total of approximately 50 gallons of tank residue (i.e., tank bottom sludge/unused waste oil) was removed from the UST. This residue was placed in one DOT-approved, 55-gallon drum and taken from the Site under Manifest (State Manifest Document Number MAK725318) to ECC. In addition, a small amount of PCS was removed by hand from around the former UST's fill pipe, placed into two 55-gallon drums and taken from the Site under Manifest (State Manifest Document Number MAK725318) to ECC.

The James G. Grant Company of Readville, MA took the removed UST from the Site for recycling. Please see the Appendix for copies of Form FP 292 (permit for removing UST and transportation to tank yard), Form 291 (receipt of UST at disposal facility), and Form FP 290R (Notification for Removal or Closure of In Place Storage Tanks Regulated Under 527 CMR 9.00). CSE has sent Form FP 290R to the Burlington Fire Department for a signature. When CSE receives the Fire Department's Signature, this form will be sent to the UST Compliance Unit in Boston and a copy will be sent to you.

## 8.0 BACKFILL THE EXCAVATION

Maxymillian backfilled the excavation on the same day of the UST removal with excavated clean soil and imported fill material.

## 9.0 LIMITATIONS OF THE ASSESSMENT

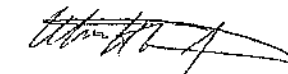
The feed and return lines from the UST to the heating system were not removed during the UST removal (see Section 4.0 for details). Therefore, CSE did not assess or render an opinion of these areas for the presence of contamination during this assessment.

## 10.0 CONCLUSION

According to field observations, field screening results, and the laboratory results, there has not been a release of fuel oil from the UST at the Site. Therefore, no further action is required. CSE reserves the right to change this opinion if any additional information is collected from the Site. If you have any questions, please do not hesitate to call.

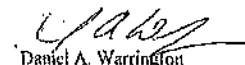
Sincerely yours,

CLEAN SOILS ENVIRONMENTAL, LTD.



William H. Mitchell, Jr., LSP

President



Daniel A. Warrington

Environmental Engineer

Enclosures:

- Appendix Including the Following:
- Figures 1 and 2 (2 pages)
- Table 1 Headspace Screening Results (1 page)
- Headspace Screening Standard Procedure (1 page)
- Laboratory Results (10 pages)
- Copies of Uniform Hazardous Waste Manifests (4 pages)
- Copy of Form FP-290R (2 pages)
- Copy of Form FP-291 (1 page)
- Copy of Form FP-292 (1 page)

cc: Todd Dresser, Town of Burlington Board of Health



# CLEAN SOILS ENVIRONMENTAL LTD.

FIELD / OFFICE NOTES:

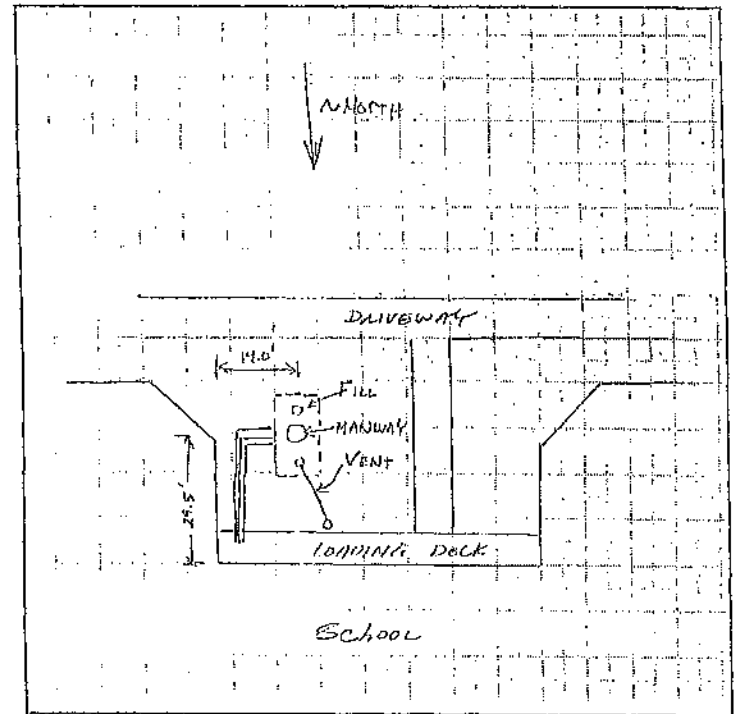
FOX HILL ELEMENTARY

Page: 4 of 4

Client: TOWN OF BURLINGTON Date: 7-19-99 Project #: 99019  
Address: 252 FOX HILL RD  
Town: BURLINGTON State: MA Type of Sample: SOIL  
Screening Location: \_\_\_\_\_

Weather: OVERCAST, 80'S  
Comments: LIMITED SITE PLAN

APPENDIX



Oil & Hazardous Waste Assessment & Cleanup Professionals

FIGURE 1

POST OFFICE BOX 591, IPSWICH, MA 01938

Voice: 978.356.1177 Fax: 978.356.1849 E-mail: info@cleansoils.com Web site: <http://www.cleansoils.com>

FIELD / OFFICE NOTES:

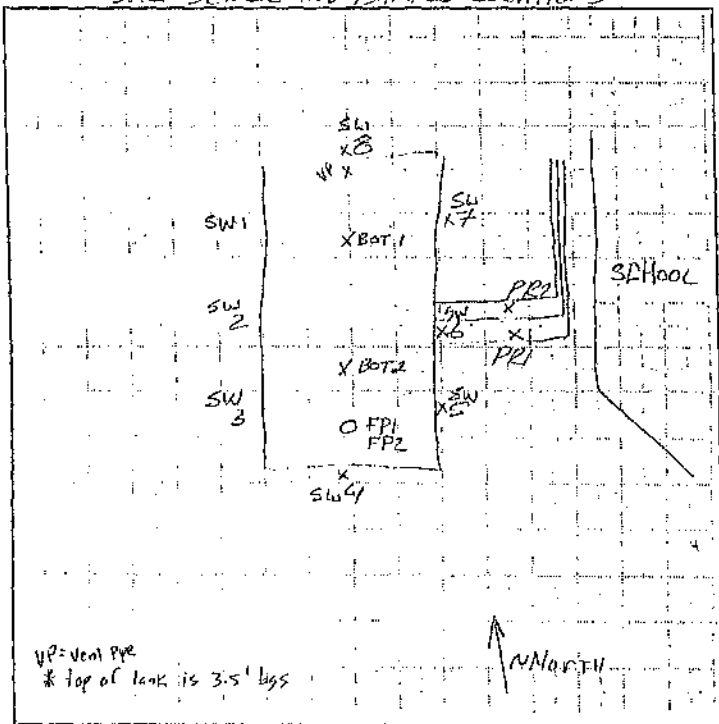
FOX HILL ELEMENTARY

Page 3 of 4

Client: Town of Burlington Date: 7-19-99 Project #: 99019  
Address: 252 Fox Hill Rd.  
Town: Burlington State: MA Type of Sample: Soil  
Screening Location: FORMER TANK GRAVE

Weather: OVERCAST, 80's  
Comments: LIMITED SITE PLAN SHOWN

SOIL SCREENING / SAMPLE LOCATIONS



Oil & Hazardous Waste Assessment & Cleanup Professionals

FIGURE 2

Field PID Jar Headspace Analytical Screening

Page 2 of 4

FIELD / OFFICE NOTES:

Project # 99019  
Client: Fox Hill Elementary Type of Sample: Soil  
Address: 252 Fox Hill Rd. Date: 7-19-99  
Town: Burlington State: MA Sampler: RAJ  
Sample Location: FORMER TANK GRAVE  
Weather: OVERCAST, 80's

Sample ID: DC: TC: TT: Reading - BG = Results

Sample ID	DC	TC	TT	Reading	BG	Results
PIPERUN1	3'5"	0805	0815	1.6	0.3	1.3
PIPERUN2	3'5"	0805	0815	2.2	0.3	1.9
SW1	4'	0817	0827	1.7	0.5	1.2
SW2	4'	0820	0830	3.1	0.5	2.6
SW3	4'	0825	0835	2.4	0.4	2.0
FPI	6"	0846	0856	26.9	0.4	26.5
FP2	2'	0847	0857	3.9	0.4	3.5
SW5	7'	0838	98.0748	2.7	0.0	2.7
SW6	7'	0935	0945	3.5	0.0	3.5
SW7	7'	0934	0944	3.3	0.0	3.3
VP	3'	0930	1006	2.8	0.0	2.8
SW4	7'	0936	1006	3.0	0.0	3.0
SW8	5'	1016	1020	1.7	0.0	1.7
BOT1	11'	1030	1040	0.5	0.0	0.5
BOT2	11'	1030	1040	0.4	0.0	0.4

Calibrated PFP to 60.0 ppm

PID Instrument Used: PHOTOVAC MICROPIF HP1000 Photo-Ionizer.  
Calibration: Benzene/Isobutylene 100 parts per million.  
Response Factor for Benzene to Isobutylene is .40.  
Field jar analytical screening procedure was conducted according to USEPA Policy HCB-400-89.  
Results = parts per million expressed in Total Ionizable chemicals in the air sample with an ionization potential below 10.6 Electron Volts (eV).  
ID = Identification, DC = Depth Collected, TC = Time Collected, TT = Time Tested, BG = Background reading of the ambient air.

TABLE 1

Oil & Hazardous Waste Assessment & Cleanup Professionals



### Headspace Screening Procedures

Clean Soils Environmental, Ltd. (CSE) screened soil samples for Total Organic Vapors (TOVs) with a portable photoionization detector (PID) calibrated with isobutylene to a benzene equivalent. The soil sample screening was performed by filling a pre-cleaned 16 oz. glass mason jar or a dedicated 16 oz. zip lock bag approximately half-full with a soil sample, covering the jar top with two layers of aluminum foil and then tightening the screw cap or using the zip lock to tightly seal the bag. The soil sample was vigorously shaken and then allowed to sit for a minimum of ten minutes at approximately 25°C. The headspace (i.e., air in the top of the container) was then screened by puncturing the aluminum seal or the zip lock bag with the portable PID Photovac MicroTip probe, inserting the probe tip to a distance approximately one-half the headspace depth, drawing a headspace air sample, and recording the highest reading displayed on the PID display.

Clean Soils Environmental, Ltd. (CSE), 2/19/98

## **GROUNDWATER ANALYTICAL**

Groundwater Analytical, Inc.  
P.O. Box 1200  
220 Main Street  
Buzzards Bay, MA 02532  
Telephone (508) 759-4411  
FAX (508) 759-4475

July 27, 1999

Mr. William Mitchell  
Clean Soils Environmental  
P.O. Box 591  
Ipswich, MA 01938

Project: Fox Hill/99019  
Lab ID: 27911  
Sample#: 07-19-99

Dear Bill:

Enclosed are the Extractable Petroleum Hydrocarbons Analyses performed for the above referenced project. This project was processed for Priority One Week turnaround.

This letter authorizes the release of the analytical results, and should be considered a part of this report. This report contains a project narrative indicating project changes and non-conformances, a brief description of the Quality Assurance/Quality Control procedures employed by our laboratory, and a statement of our state certifications.

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

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

Sincerely,



Jonathan R. Sanford  
President

JRS/myr  
Enclosures

**GROUNDWATER ANALYTICAL**

**Massachusetts DEP EPH Method  
Extractable Petroleum Hydrocarbons by GC/FID**

Field ID: P02 Laboratory ID: 27911-03  
 Project: Fox Hill/99019 QC Batch ID: EP-0710-M  
 Client: Clean Soils Environmental Sampled: 07-19-99  
 Container: 120 mL Glass Received: 07-20-99  
 Preservation: Cool Extracted: 07-22-99  
 Matrix: Soil Analyzed: 07-27-99  
 % Moisture: 7 Dilution Factor: Aliphatics 1 Aromatics 1

EPH Ranges	Concentration	Units	Reporting Limit
n-C9 to n-C10 Aliphatic Hydrocarbons <sup>1</sup>	BRL	mg/Kg	31
n-C19 to n-C36 Aliphatic Hydrocarbons <sup>1</sup>	BRL	mg/Kg	31
n-C11 to n-C22 Aromatic Hydrocarbons <sup>1,6</sup>	BRL	mg/Kg	31
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons <sup>1</sup>	BRL	mg/Kg	31

CAS Number	Target Analytes	Concentration	Units	Reporting Limit
91-20-3	Naphthalene	BRL	mg/Kg	0.52
91-57-6	2-Methylnaphthalene	BRL	mg/Kg	0.52
85-01-8	Phenanthrene	BRL	mg/Kg	0.52
83-32-9	Acenaphthene	BRL	mg/Kg	0.52
208-96-6	Acenaphthylene	BRL	mg/Kg	0.52
85-73-7	Fluorene	BRL	mg/Kg	0.52
120-12-7	Anthracene	BRL	mg/Kg	0.52
206-44-0	Fluoranthene	BRL	mg/Kg	0.52
129-00-0	Pyrene	BRL	mg/Kg	0.52
56-55-3	Benzo[a]anthracene	BRL	mg/Kg	0.52
218-01-9	Chrysene	BRL	mg/Kg	0.52
205-99-2	Benzo[k]fluoranthene	BRL	mg/Kg	0.52
207-00-9	Benzo[e]fluoranthene	BRL	mg/Kg	0.52
50-32-6	Benzo[a]pyrene	BRL	mg/Kg	0.52
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL	mg/Kg	0.52
53-70-3	Dibenz[a,h]anthracene	BRL	mg/Kg	0.52
191-24-2	Benzo[ghi]perylene	BRL	mg/Kg	0.52

QC Surrogate Compounds	Recovery	QC Limits
Fractionation: 2-Fluorobiphenyl	90 %	40 - 140 %
2-Bromonaphthalene	93 %	40 - 140 %
Extraction: Chloro-octadecane	84 %	40 - 140 %
ortho-Terphenyl	86 %	40 - 140 %

**QA/QC Certification**

- Were all QA/QC procedures required by the method followed? Yes
- Were all performance/acceptance standards for the required QA/QC procedures achieved? Yes
- Were any significant modifications made to the method, as specified in Section 11.3.1.1? Yes

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

**Method Reference:** Method for the Determination of Extractable Petroleum Hydrocarbons, MA DEP (1998). Results are calculated on a dry weight basis. Method modified by use of microwave accelerated solvent extraction technique.

**Report Notations:** BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample dilution, percent moisture and sample size.

- 1 Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.
- 6 n-C11 to n-C22 Aromatic Hydrocarbons range data excludes the method target analyte concentrations.

**GROUNDWATER ANALYTICAL**

**Massachusetts DEP EPH Method  
Extractable Petroleum Hydrocarbons by GC/FID**

Field ID: B022 Laboratory ID: 27911-03  
 Project: Fox Hill/99019 QC Batch ID: EP-0710-M  
 Client: Clean Soils Environmental Sampled: 07-19-99  
 Container: 120 mL Glass Received: 07-20-99  
 Preservation: Cool Extracted: 07-22-99  
 Matrix: Soil Analyzed: 07-27-99  
 % Moisture: 10 Dilution Factor: Aliphatics 1 Aromatics 1

EPH Ranges	Concentration	Units	Reporting Limit
n-C9 to n-C10 Aliphatic Hydrocarbons <sup>1</sup>	BRL	mg/Kg	32
n-C19 to n-C36 Aliphatic Hydrocarbons <sup>1</sup>	BRL	mg/Kg	32
n-C11 to n-C22 Aromatic Hydrocarbons <sup>1,6</sup>	BRL	mg/Kg	32
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons <sup>1</sup>	BRL	mg/Kg	32

CAS Number	Target Analytes	Concentration	Units	Reporting Limit
91-20-3	Naphthalene	BRL	mg/Kg	0.53
91-57-6	2-Methylnaphthalene	BRL	mg/Kg	0.53
85-01-8	Phenanthrene	BRL	mg/Kg	0.53
83-32-9	Acenaphthene	BRL	mg/Kg	0.53
208-96-6	Acenaphthylene	BRL	mg/Kg	0.53
85-73-7	Fluorene	BRL	mg/Kg	0.53
120-12-7	Anthracene	BRL	mg/Kg	0.53
206-44-0	Fluoranthene	BRL	mg/Kg	0.53
129-00-0	Pyrene	BRL	mg/Kg	0.53
56-55-3	Benzo[a]anthracene	BRL	mg/Kg	0.53
218-01-9	Chrysene	BRL	mg/Kg	0.53
205-99-2	Benzo[k]fluoranthene	BRL	mg/Kg	0.53
207-00-9	Benzo[e]fluoranthene	BRL	mg/Kg	0.53
50-32-6	Benzo[a]pyrene	BRL	mg/Kg	0.53
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL	mg/Kg	0.53
53-70-3	Dibenz[a,h]anthracene	BRL	mg/Kg	0.53
191-24-2	Benzo[ghi]perylene	BRL	mg/Kg	0.53

QC Surrogate Compounds	Recovery	QC Limits
Fractionation: 2-Fluorobiphenyl	87 %	40 - 140 %
2-Bromonaphthalene	90 %	40 - 140 %
Extraction: Chloro-octadecane	81 %	40 - 140 %
ortho-Terphenyl	83 %	40 - 140 %

**QA/QC Certification**

- Were all QA/QC procedures required by the method followed? Yes
- Were all performance/acceptance standards for the required QA/QC procedures achieved? Yes
- Were any significant modifications made to the method, as specified in Section 11.3.1.1? Yes

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

**Method Reference:** Method for the Determination of Extractable Petroleum Hydrocarbons, MA DEP (1998). Results are calculated on a dry weight basis. Method modified by use of microwave accelerated solvent extraction technique.

**Report Notations:** BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample dilution, percent moisture and sample size.

- 1 Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.
- 6 n-C11 to n-C22 Aromatic Hydrocarbons range data excludes the method target analyte concentrations.





**GROUNDWATER  
ANALYTICAL**

**Quality Assurance/Quality Control**

**A. Program Overview**

Groundwater Analytical conducts an active Quality Assurance program to ensure the production of high quality, valid data. This program closely follows the guidance provided by *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans*, US EPA QAMS-005/80 (1980), and *Test Methods for Evaluating Solid Waste*, US EPA, SW-846, Update III (1996).

Quality Control protocols include written Standard Operating Procedures (SOPs) developed for each analytical method. SOPs are derived from US EPA methodologies and other established references. Standards are prepared from commercially obtained reference materials of certified purity, and documented for traceability.

Quality Assessment protocols for most organic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. All samples, standards, blanks, laboratory control samples, matrix spikes and sample duplicates are spiked with internal standards and surrogate compounds. All instrument sequences begin with an initial calibration verification standard and a blank; and excepting GC/MS sequences, all sequences close with a continuing calibration standard. GC/MS systems are tuned to appropriate ion abundance criteria daily, or for each 12 hour operating period, whichever is more frequent.

Quality Assessment protocols for most inorganic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. Standard curves are derived from one reagent blank and four concentration levels. Curve validity is verified by standard recoveries within plus or minus ten percent of the curve.

**B. Definitions**

Batches are used as the basic unit for Quality Assessment. A Batch is defined as twenty or fewer samples of the same matrix which are prepared together for the same analysis, using the same lots of reagents and the same techniques or manipulations, all within the same continuum of time, up to but not exceeding 24 hours.

Laboratory Control Samples are used to assess the accuracy of the analytical method. A Laboratory Control Sample consists of reagent water or sodium sulfate spiked with a group of target analytes representative of the method analytes. Accuracy is defined as the degree of agreement of the measured value with the true or expected value. Percent Recoveries for the Laboratory Control Samples are calculated to assess accuracy.

Method Blanks are used to assess the level of contamination present in the analytical system. Method Blanks consist of reagent water or an aliquot of sodium sulfate. Method Blanks are taken through all the appropriate steps of an analytical method. Sample data reported is not corrected for blank contamination.

Surrogate Compounds are used to assess the effectiveness of an analytical method in dealing with each sample matrix. Surrogate Compounds are organic compounds which are similar to the target analytes of interest in chemical behavior, but which are not normally found in environmental samples. Percent Recoveries are calculated for each Surrogate Compound.

**GROUNDWATER  
ANALYTICAL**

**Quality Control Report  
Laboratory Control Sample**

Category: MA DEP EPH Method  
QC Batch ID: EP-0710-M  
Matrix: Soil  
Units: mg/Kg

CAS Number	Analyte	Spiked	Measured	Recovery	QC Limits
111-84-2	n-Nonane (C <sub>9</sub> )	5.0	2.6	53 %	40 - 140 %
629-59-4	n-Tetradecane (C <sub>14</sub> )	5.0	4.0	80 %	40 - 140 %
629-92-5	n-Tridecane (C <sub>13</sub> )	5.0	4.4	88 %	40 - 140 %
112-95-8	n-Eicosane (C <sub>20</sub> )	5.0	4.7	95 %	40 - 140 %
630-02-4	n-Octacosane (C <sub>28</sub> )	5.0	4.5	90 %	40 - 140 %
91-20-3	Naphthalene	5.0	3.5	60 %	40 - 140 %
83-32-9	Acenaphthylene	5.0	4.1	81 %	40 - 140 %
120-12-7	Anthracene	5.0	4.5	90 %	40 - 140 %
129-00-0	Pyrene	5.0	4.6	93 %	40 - 140 %
218-01-9	Chrysene	5.0	5.0	99 %	40 - 140 %

QC Surrogate Compounds	Recovery	QC Limits
Fractionation: 2-Fluorobiphenyl	86 %	40 - 140 %
2-Bromonaphthalene	85 %	40 - 140 %
Extraction: Chloro-octadecane	92 %	40 - 140 %
ortho-Terphenyl	88 %	40 - 140 %

Method Reference: Method for the Determination of Extractable Petroleum Hydrocarbons, MA DEP (1998).

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.



**GROUNDWATER ANALYTICAL**

**Quality Control Report  
Method Blank**

Category: MA DEP EPH Method  
QC Batch ID: EP-0710-M  
Matrix: Soil

EPH Ranges	Concentration	Units	Reporting Limit
n-C9 to n-C16 Aliphatic Hydrocarbons <sup>1</sup>	BRL	mg/kg	30
n-C19 to n-C26 Aliphatic Hydrocarbons <sup>1</sup>	BRL	mg/kg	30
n-C11 to n-C22 Aromatic Hydrocarbons <sup>1,0</sup>	BRL	mg/kg	30
Unadjusted n-C11 to n-C22 Aromatic Hydrocarbons <sup>1</sup>	BRL	mg/kg	30

CAS Number	Target Analytes	Concentration	Units	Reporting Limit
91-20-3	Naphthalene	BRL	mg/kg	0.50
91-57-6	2-Methylnaphthalene	BRL	mg/kg	0.50
85-01-8	Phenanthrene	BRL	mg/kg	0.50
83-32-9	Acenaphthene	BRL	mg/kg	0.50
200-96-0	Acenaphthylene	BRL	mg/kg	0.50
86-73-7	Fluorene	BRL	mg/kg	0.50
120-12-7	Anthracene	BRL	mg/kg	0.50
206-94-0	Fluoranthene	BRL	mg/kg	0.50
129-10-0	Pyrene	BRL	mg/kg	0.50
56-55-3	Benzo[a]anthracene	BRL	mg/kg	0.50
218-01-0	Chrysene	BRL	mg/kg	0.50
205-99-2	Benzo[b]fluoranthene	BRL	mg/kg	0.50
207-08-9	Benzo[k]fluoranthene	BRL	mg/kg	0.50
50-32-6	Benzo[a]pyrene	BRL	mg/kg	0.50
193-39-5	Indeno[1,2,3-cd]pyrene	BRL	mg/kg	0.50
53-70-3	Dibenz[a,h]anthracene	BRL	mg/kg	0.50
191-24-2	Benzo[ghi]perylene	BRL	mg/kg	0.50

QC Surrogate Compounds	Recovery	QC Limits
Fractionation: 2-Fluorobiphenyl	81 %	40 - 140 %
Extraction: 2-Bromonaphthalene	80 %	40 - 140 %
Chloro-n-octadecane	80 %	40 - 140 %
ortho-Terphenyl	88 %	40 - 140 %

Method Reference: Method for the Determination of Extractable Petroleum Hydrocarbons, MA DEP (1993).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample dilution, percent moisture and sample size.

<sup>1</sup> Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

<sup>0</sup> n-C11 to n-C22 Aromatic Hydrocarbons range data excludes the method target analyte concentrations.

**GROUNDWATER ANALYTICAL**

**Certifications and Approvals**

**CONNECTICUT, Department of Health Services, PH-0506**

Potable Water, Wastewater/Trade Waste, Sewage/Effluent, and Soil

pH, Conductivity, Acidity, Alkalinity, Hardness, Chloride, Fluoride, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, Orthophosphate, Total Dissolved Solids, Cyanide, Aluminum, Arsenic, Barium, Beryllium, Cadmium, Total Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Manganese, Molybdenum, Mercury, Methylmercury, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Titanium, Vanadium, Zinc, Purgeable Halocarbons, Purgeable Organics, Pesticides, PCBs, PCBs in Oil, Ethylene Dibromide, Phenols, Oil and Grease.

**MAINE, Department of Human Services, MA103**

Drinking Water

Reciprocal certification in accordance with Massachusetts certification for drinking water analytes.

Waste Water

Reciprocal certification in accordance with Massachusetts certification for waste water analytes.

**MASSACHUSETTS, Department of Environmental Protection, M-MA-103**

Potable Water

Arsenic, Asenic, Barium, Beryllium, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Selenium, Thallium, Nitrate-N, Nitrite-N, Fluoride, Sodium, Sulfate, Cyanide, Turbidity, Residual Free Chlorine, Calcium, Total Alkalinity, Total Dissolved Solids, pH, Trihalomethanes, Volatile Organic Compounds, 1,2-Dibromoethane, 1,2-Dibromo-3-chloropropane, Total Coliform, Fecal Coliform, Heterotrophic Plate Count, E.Coli

Non-Potable Water

Arsenic, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Silver, Strontium, Thallium, Titanium, Vanadium, Zinc, pH, Specific Conductance, Total Dissolved Solids, Total Hardness, Calcium, Magnesium, Sodium, Potassium, Total Alkalinity, Chloride, Fluoride, Sulfate, Ammonia-N, Nitrate-N, Kjeldahl-N, Orthophosphate, Total Phosphorus, Chemical Oxygen Demand, Biochemical Oxygen Demand, Total Cyanide, Non-Filtrable Residue, Total Residual Chlorine, Oil and Grease, Total Phenolics, Volatile Hydrocarbons, Volatile Organics, Chloroform, Aroclor, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, Polychlorinated Biphenyls (PCBs), Polychlorinated Biphenyls (PCBs)

**MICHIGAN, Department of Environmental Quality**

Drinking Water

Trihalomethanes, Regulated and Unregulated Volatile Organic Compounds by EPA Method 824.2; 1,2-Dibromoethane, 1,2-Dibromo-3-chloropropane by EPA Method 804.1

**NEW HAMPSHIRE, Department of Environmental Services, 20279B**

Drinking Water

Metals by Graphite Furnace, Metals by ICP, Arsenic, Filtrate-N, Orthophosphate, Residual Free Chlorine, Turbidity, Total Filterable Residue, Calcium Hardness, pH, Alkalinity, Sodium, Sulfate, Total Cyanide, Insecticides, Herbicides, Biopesticides, Trihalomethanes, Volatile Organics, Vinyl Chloride, UBCP, COB, Nitrate-N.

Wastewater

Metals by Graphite Furnace, Metals by ICP, Mercury, pH, Specific Conductivity, TDS, Total Hardness, Calcium, Magnesium, Sodium, Potassium, Total Alkalinity, Chloride, Fluoride, Sulfate, Ammonia-N, Nitrate-N, Orthophosphate, IKM, Total Phosphorus, COD, BOD, Non Filterable Residue, Oil & Grease, Total Phenolics, Total Residual Chlorine, PCBs in Water, PCBs in Oil, Pesticides, Volatile Organics, Total Cyanide.

**RHODE ISLAND, Department of Health, 54**

Surface Water, Air, Wastewater, Potable Water, Sewage

Chemistry: Organic and Inorganic







DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF HAZARDOUS MATERIALS  
One Winter Street Boston, Massachusetts 02108

**FILE**

Please print or type. (Form designed for use on 8 1/2" (12-pitch) typewriter)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MP751270192L	Manifest Document No. 25312	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address TOWN OF BURLINGTON 29 CENTER ST. BURLINGTON, MA 01830		A. Site Manifest Document Number MARK 725312		B. State Agency ID MA 34407	
4. Generator's Phone 731-670-1922		C. State Agency ID MA 34407		D. State Agency ID MA 34407	
5. Transporter 1 Company Name MARYMILLIAN TECHNOLOGIES		6. US EPA ID Number MA500001867		7. Transporter 2 Company Name	
8. Designated Facility Name and Site Address ENVIRONMENTAL COMPLIANCE CORPORATION THIRK CANYON ST. STOUGHTON, MA 0102072		9. US EPA ID Number MA10062179870		10. US EPA ID Number	
11. US DOT Description (including Proper Shipping Name, Hazard Class and ID Number)		11. Quantity	12. Container Type	13. Waste ID	14. Waste Code
WASTE REGULATORY LIQUID 3, NA 1973, PG III		001.77	3010 G	MA95	
15. Additional Descriptions for Materials Listed Above (include physical state and hazard code)		16. Handling Codes for Wastes Listed Above			
LIQUID					
18. Special Handling Instructions and Additional Information		24 HR EMERGENCY PHONE #		ERG 128	
24 HR EMERGENCY PHONE # 508-944-6513					
19. Generator's Certification: I hereby declare that the contents of this manifest 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.		Signature: M. Trethewey		Date: 07/23/97	
17. Transporter 1 Acknowledgment of Receipt of Materials		Signature: David S. Edlin		Date: 07/23/97	
18. Transporter 2 Acknowledgment of Receipt of Materials		Signature:		Date:	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19		Signature:		Date:	

COPY 4: GENERATOR MAILS TO DESTINATION STATE



DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF HAZARDOUS MATERIALS  
One Winter Street Boston, Massachusetts 02108

**FILE**

Please print or type. (Form designed for use on 8 1/2" (12-pitch) typewriter)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MP751270192L	Manifest Document No. MARK 725312	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address TOWN OF BURLINGTON 29 CENTER ST. BURLINGTON, MA 01830		A. Site Manifest Document Number MARK 725312		B. State Agency ID MA 34407	
4. Generator's Phone 731-670-1922		C. State Agency ID MA 34407		D. State Agency ID MA 34407	
5. Transporter 1 Company Name MARYMILLIAN TECHNOLOGIES		6. US EPA ID Number MA500001867		7. Transporter 2 Company Name	
8. Designated Facility Name and Site Address ENVIRONMENTAL COMPLIANCE CORPORATION THIRK CANYON ST. STOUGHTON, MA 0102072		9. US EPA ID Number MA10062179870		10. US EPA ID Number	
11. US DOT Description (including Proper Shipping Name, Hazard Class and ID Number)		11. Quantity	12. Container Type	13. Waste ID	14. Waste Code
WASTE REGULATORY LIQUID 3, NA 1973, PG III		003.01	350 POUNDS	MA95	
15. Additional Descriptions for Materials Listed Above (include physical state and hazard code)		16. Handling Codes for Wastes Listed Above			
LIQUID					
18. Special Handling Instructions and Additional Information		24 HR EMERGENCY PHONE #		ERG 128	
24 HR EMERGENCY PHONE # 508-944-6513					
19. Generator's Certification: I hereby declare that the contents of this manifest 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.		Signature: M. Trethewey		Date: 07/23/97	
17. Transporter 1 Acknowledgment of Receipt of Materials		Signature: David S. Edlin		Date: 07/23/97	
18. Transporter 2 Acknowledgment of Receipt of Materials		Signature:		Date:	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19		Signature:		Date:	

COPY 4: GENERATOR MAILS TO DESTINATION STATE

In case of emergency or spill, immediately call the National Response Center (800) 424-8902

In case of emergency or spill, immediately call the National Response Center (800) 424-8902

MARK 725312 COPY 4: GENERATOR MAILS TO DESTINATION STATE

NOTE: THESE 3 drums sent to ECC, Stoughton, MA

Commonwealth of Massachusetts - Department of Fire Services  
 Executive Office of Public Safety - UST Regulatory Compliance Unit

Notification for Removal or Closure of In Place Storage Tanks Regulated Under 527 CMR 9.00

Forward completed form, signed by local fire department, to: Mass. UST Compliance Unit,  
 Dept. of Fire Services, One Ashburton Place - Room 1310, Boston, MA 02108-1618

(Fire Department retains one copy of FP-290F)

This form is to be used for notification for removal of Underground Storage Tanks/  
 Piping.

If a storage facility has UST's which are to remain in use, an entire amended FP-290  
 (long form) must be filed.

Note: "Facility street address" must include both a street number and a street name.  
 Post office box numbers are not acceptable, and will cause a registration to be  
 returned. If geographic location of facility is not provided, please indicate distance and  
 direction from closest intersection, e.g., (facility at 189 North Street is located) 400  
 yards southeast of Commons Road (intersection).

**Fire Dept. Use Only**

Date Received: \_\_\_\_\_  
 Fire Dept. ID# \_\_\_\_\_  
 Fire Dept. Sig. \_\_\_\_\_

**State Use Only**

A. Facility Number \_\_\_\_\_  
 B. Date Entered \_\_\_\_\_  
 C. Clerk's Initials \_\_\_\_\_  
 D. Comments \_\_\_\_\_

**I. OWNERSHIP OF TANK(S)**

Owner Name (Corporation, Individual, Public Agency, or Other Entity)  
Town of Burlington  
29 Center Street  
Street Address

City: Burlington State: MA Zip Code: 01803  
 County: Middlesex  
 Phone Number (Area Code): (781) 270-1600 Owner's Employer's Fax #: 046.001.104

**II. LOCATION OF TANK(S)**

If known, give the geographic location of tanks by degrees, minutes, and  
 seconds. Example: Lat. 42, 38, 12 N Long. 05, 24, 17 W

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

Distance and direction from closest intersection (see note above)  
Fox Hill School  
 Facility Name of Company Site Identifier, as applicable  
252 Fox Hill Rd.  
 Street Address (P.O. Box not acceptable - see note above)  
 City: Burlington State: MA Zip Code: 01803  
 County: Middlesex

**III. TANKS/PIPING REMOVED OR FILLED IN PLACE**

Tank Number	Tank No. <u>1</u>	Tank No. _____	Tank No. _____	Tank No. _____	Tank No. _____
1. Tank/Piping removed or filled in place (mark all that apply)					
A. Substance last stored	<u>W4</u>				
B. Tank capacity gallons	<u>8,000</u>				
C. Estimated date last used (mo./day/yr.)	<u>2/21</u>				
D. Estimated date of removal (mo./day/yr.)	<u>7/19/99</u>				
E. Tank was removed from ground	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F. Tank was not removed from ground	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tank was filled with inert material	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Describe material used:					
G. Piping was removed from ground	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H. Piping was not removed from ground	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I. Other, please specify					

Number (cont.)	Tank No. <u>1</u>	Tank No. _____	Tank No. _____	Tank No. _____	Tank No. _____
Tank closed in accordance with 527 CMR 9.00	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
A. Evidence of leak detected	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
B. Mass. DEP notified	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
1. Mass. DEP tracking number	<u>N/A</u>				
2. Agency or company performing contamination assessment	<u>Clean Soils Environmental, Ltd.</u>				

I declare under penalty of perjury 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 informa-  
 tion, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's  
 authorized representative (Print)  
Larry Rittenberg  
Assistant Town Administrator

Signature: [Signature]

Date: 7/30/99





Commonwealth of Massachusetts  
Department of Fire Services - Office of the State Fire Marshal  
RECEIPT OF DISPOSAL OF UNDERGROUND STEEL STORAGE TANK  
JAMES G. GRANT CO., INC.

NAME AND ADDRESS OF APPROVED TANK YARD  
20 WOLCOTT STREET  
READVILLE, MA 02457

APPROVED TANK YARD NO. #008 Tank Yard Letter 502 CMR 3.03 (4) Number 943724

I certify under penalty of law I have personally established the underground steel storage tank delivered to this approved tank yard by this permittee and accepted same in conformance with Massachusetts Fire Prevention Regulation 807 CMR 3.03 Provisions for Approving Underground Steel Storage Tank dispensing yards. A valid permit was issued by LOCAL Head of Fire Department FDID# 17048 to transport this tank to this yard.

Name and address of approved tank yard owner or owner's authorized representative:

J. G. Grant  
7-19-99  
The signed receipt of disposal must be returned to the local head of the fire department, FDID# 17048. EACH TANK MUST HAVE A RECEIPT OF DISPOSAL.

TANK DATA

Gallons 8,000

Previous Contents #4

Diameter Length

Date Received 7-19-99

Serial # (if available)

Tank I.D. # (Form FP-390)

Owner/Operator to mail revised copy of Notification Form (FP290, or FP290R) to: UST Compliance, Office of the State Fire Marshal, P.O. Box 1023 State Road, Stow, MA 01775.

Fox Hill School  
TANK REMOVED FROM

Fox Hill Rd  
(Rt. and Street)

Burlington  
(City or Town)

Fire Department Permit # TR 99-210

270-1924



Make application to local Fire Department.  
Fire Department retains original application and issues duplicate as Permit.

Commonwealth of Massachusetts  
Department of Fire Services - Board of Fire Prevention

APPLICATION and PERMIT

Fee: 10

for storage tank removal and transportation to approved tank disposal yard in accordance with the provisions of M.G.L. Chapter 140, Section 30A, 827 CMR 0.00, application is hereby made by:

**Tank Owner:**  
Tank Owner Name (please print) TOWN OF BURLINGTON X  
Address 29 CENTER ST. BURLINGTON MA 01830  
City State ZIP

Removal Contractor	Contamination Assessment
Company Name MAXWELLIAN TECHNOLOGIES Address 28 TOWN FOREST RD WEBSTER Signature (if applying for permit) M. McKeown ICPC Certified <input checked="" type="checkbox"/> Other <input type="checkbox"/>	Co. or Individual CUSHING & COMPANY Address PO BOX 691 IPSWICH MA 01938 Signature (if applying for permit) ICPC Certified <input checked="" type="checkbox"/> LSP <input type="checkbox"/> Other <input type="checkbox"/>

**Tank Information**  
Tank Location FOX HILL ELEMENTARY SCHOOL, FOX HILL RD, BURLINGTON, MA  
Tank Capacity (gallons) 8000 GAL Substance Last Stored #4 OIL  
Tank Dimensions (diameter x length) 96" X 21'5"  
Markings:

**Disposal Information**  
Firm transporting waste MAXWELLIAN TECH State U.S. # 118320  
Hazardous waste manifest# MAR 725312 H.P.A. # 118500001547  
Approved tank disposal yard GRANT & SON Tank yard # 11  
Type of inert gas CO<sub>2</sub> Tank yard address READVILLE MA

**Approvals**  
City or Town Burlington FDID# 17048 Permit# TR 99-210  
Date of Issue Date of expiration  
Dig site approval number 19992901573 (7.16.99 1M) Dig Site Toll Free Tel. Number - 800-322-4644  
Signature / Title of Officer granting permit Capt. Cook Fire Dept

After removal(s) send Form FP-390R signed by Local Fire Dept. to UST Regulatory Compliance Unit, One Ashburton Place, Room 1310, Boston, MA 02100-1016.

ASBESTOS HAZARD  
EMERGENCY RESPONSE ACT  
(AHERA)  
THREE YEAR REINSPECTION  
REPORT

FOX HILL ELEMENTARY SCHOOL  
BURLINGTON, MASSACHUSETTS

LFR PROJECT NO.:  
104-80168

PREPARED FOR:  
MR. CRAIG ROBINSON  
DIRECTOR OF BUILDING & GROUNDS  
BURLINGTON SCHOOL DEPARTMENT  
123 CAMBRIDGE STREET  
BURLINGTON, MA  
01803

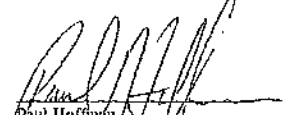
DATE ISSUED:  
SEPTEMBER 14, 1998

Project No. 104-80168  
Fox Hill Elementary School

The Asbestos Hazard Emergency Response Act (AHERA) reinspection described herein was conducted by the undersigned, of Levine-Fricke-Recon (LFR). LFR's investigation consisted solely of the reinspection activities required by AHERA (40 CFR 763) and as described in LFR's Proposal W198-027. In addition, the reinspection was subject to the Limitations and Service Constraints provided in Appendix A.

This reinspection report for the Fox Hill Elementary School must be incorporated into the original Management Plan for the school.

Asbestos Reinspection Report Prepared by:

  
Paul Hoffman  
MA Inspector #AI 51722  
MA Management Planner # AP 52749

9/14/98  
Date

Asbestos Reinspection Report Reviewed and Approved by:

  
Michael Capozzi  
Project Manager

9/14/98  
Date



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Project No. 104-00168  
Fox Hill Elementary School

1.0 INTRODUCTION

Levine-Fricke-Recon (LFR), was retained by the Burlington School Department to reinspect the Fox Hill Elementary School located in Burlington, MA in compliance with the Asbestos Hazard Emergency Response Act (AHERA) of October, 1987. The reinspection was conducted on July 29, 1998 by LFR's representative, Mr. Paul Hoffman, Massachusetts Asbestos Inspector License #AI 51722.

The objective of the reinspection was to maintain the Fox Hill Elementary School's compliance with the AHERA Regulation by visually reinspecting and reassessing the condition of all known or assumed asbestos-containing building materials (ACBM). In accordance with the regulation, LFR also visually inspected and reassessed materials that were previously considered non-friable ACBM and touched the material to determine whether it had become friable since the last inspection or reinspection.

All findings of this reinspection must be incorporated into the original Management Plan document for the School building.

As described in the Reinspection Hazard Assessment Sheets included as appendix B, LFR has identified any changes in quantity or condition of ACBM noted during the reinspection and has included updated recommendations, where appropriate. LFR has also provided an updated Hazard Priority Summary which indicates the priority of Homogeneous Areas and LFR's recommendation for addressing confirmed or assumed asbestos-containing material (ACM).

Under AHERA protocol, certain assessment criteria were used as the basis for recommended response actions. These assessment criteria were as follows: The existence of barriers, abnormal access features, activity in the area, air erosion, potential for fiber release, and existing damage.

Based on the aforementioned assessment criteria, LFR made recommendations for ACBM at the school building. LFR's recommendations generally fall into six categories:

1. Homogeneous Areas which can be maintained under the Provisions of an Operations & Maintenance (O&M) Program;
2. Homogeneous Areas which should be properly removed immediately by a qualified abatement contractor;
3. Homogeneous Areas which should be removed when practical;
4. Homogeneous Areas requiring short-term, short-duration remedial measures (patch & repair) performed either by in-house maintenance personnel who have successfully completed the 16-hour O&M training course or by a qualified abatement contractor depending on the amount of material;
5. Homogeneous Areas requiring enclosure; and
6. Homogeneous Areas requiring encapsulation.

## 2.0 RECORD KEEPING OF THE MANAGEMENT PLAN

The Local Education Agency's (LEA) responsibilities regarding recordkeeping for the school Asbestos Management Plan are defined as follows:

Each LEA must keep an updated copy of the management plan in its administrative office for each school under its administrative control or direction. This plan must be available, without restriction, to the public, school personnel and their representatives, parents and representatives of the EPA and the State for inspection during normal business hours.

In addition, each school must keep in its administrative office, an updated copy of the management plan for the school, which must be made available for inspection.

Each LEA and school must keep accurate records of relevant events with the management plan. Relevant events include:

- \* For any response action or preventive measure taken for ACBM: provide a detailed description of the actions and information on sample analysis [see 40 CFR Part 763, section 763.94 (b)].
- \* For each person required to be trained: provide their name and job title, and documentation regarding their training.
- \* For each periodic surveillance that is conducted: provide the name of each person performing the surveillance, the date of the surveillance, and any changes in the condition of the materials. Periodic surveillance inspection should be conducted every 6 months.
- \* For each reinspection: provide the name and accreditation information of the inspector, the date of the reinspection, and any changes noted in the condition of the material.
- \* For each required cleaning: provide the name of the person performing the cleaning, the date of the cleaning, the locations cleaned, and the methods used.
- \* For each small-scale and short-duration operation and maintenance activity: provide the name and signature of the person performing the activity, the activity start and completion dates, the precise locations and a description of the activity and any preventive measures taken. If ACBM is removed, provide the name and location of the storage or disposal site.
- \* For maintenance activities other than small-scale and short-duration activities: provide the name and signature of the person performing the activity; their State of accreditation and, if applicable, the accreditation number of each person doing the activity; the activity start and completion dates; the precise locations; and if ACBM is removed, the name and location of the storage or disposal site.
- \* For each fiber release episode: provide the date and location of the release, the method of repair, the preventative or response actions taken, the name of each person

performing the work, and if ACBM is removed, the name and location of the storage or disposal site.

Proper documentation allows for the accurate representation of the condition of and the amounts of asbestos-containing materials within the school building.

## 3.0 DOCUMENTATION REVIEW

LFR performed a review of the original Asbestos Management Plan and all accompanying documentation pertaining to employee training, patch and repair work performed under the O&M Program, and asbestos abatement operations that have taken place since the implementation of the O&M Program. This documentation review is summarized as follows:

### 3.1 Designated Person

Name: Mr. Craig Robinson  
Title: Director of Buildings & Grounds  
Address: 123 Cambridge Street  
Burlington, MA 02184

Telephone Number: (781) 270-1800

Training: Institute for Environmental Education, Inc.  
IEE 80 Cummings Park Woburn, Ma

The AHERA regulation 763.84(g)(1) states that "the general LEA shall designate a person to ensure that requirements under this section are properly implemented". Section 763.84(g)(2) further states that "the LEA shall ensure that the designated person receives adequate training to perform duties assigned under this section".

The AHERA regulation section 763.84 outlines the general LEA responsibilities and are defined as follows:

Ensure that the activities of any persons who perform inspections, reinspections, and periodic surveillance, develop and update management plans, and develop and implement response actions, including operations and maintenance (O&M), are carried out in accordance with Subpart E of the regulation.

Ensure that all custodial and maintenance employees are properly trained as required by the Subpart E and other applicable Federal and/or State regulations (e.g., the Occupational Safety and Health Administration asbestos standard for construction, the EPA worker protection rule, or applicable Massachusetts Department of Labor and Workforce Development regulations). Ensure that workers and building occupants, or their legal guardians, are informed at least once each school year about inspections, response actions, and post-response action activities, including periodic reinspection and surveillance activities that are planned or in progress.



Ensure that short-term workers (e.g., telephone repair workers, utility workers, or exterminators) who may come in contact with asbestos in a school are provided information regarding the locations of ACBM and suspected ACBM assumed to be ACM.

Ensure that warning labels are posted in accordance with section 763.95.

Ensure that Management Plans are available for inspection and notification of such availability has been provided as specified in the Management Plan under section 763.93 (g).

Designate a person to ensure that requirements of the AHERA regulation are properly implemented and that the designated person receives adequate training to perform duties assigned.

Consider whether any conflict of interest may arise from the interrelationship among accredited personnel and whether that should influence the selection of accredited personnel to perform activities under the Subpart.

### 3.2 Yearly Building Occupant Notification

"The designated person must ensure that workers and building occupants, or their legal guardians, are informed at least once each school year about inspections, response actions, and post-response action activities, including periodic reinspection and surveillance activities that are planned or in progress", as per the AHERA regulation section 763.84(c).

LFR did observe documentation of yearly notification to building occupants.

### 3.3 Custodial/Maintenance Personnel Training

LFR recommends that the Fox Hill Elementary School ensure that all maintenance personnel assigned to the school system have or will receive, at a minimum, the two (2) hour asbestos-awareness training, as required by the AHERA regulation. Two-Hour Awareness training programs have not been completed for maintenance personnel at the school system. LFR confirmed this through visually inspecting copies of certifications.

As per the AHERA regulation section 763.92 (a), "The LEA shall ensure, prior to the implementation of the O&M provisions of the Management Plan, that all members of its maintenance and custodial staff (custodians, electricians, heating/air conditioning engineers, plumbers, etc.) who may work in a building that contains ACBM receive awareness training of at least 2 hours, whether or not they are required to work with ACBM. New custodial and maintenance employees shall be trained within 60 days after commencement of employment."

### 3.4 Periodic Surveillance

LFR did review documentation regarding periodic surveillance at the school. LFR recommends in the future the school use the periodic surveillance sheets which are provided following each Hazard Assessment Summary Sheets provided as Appendix B.

"At least once every 6 months after a management plan is in effect, each local education agency shall conduct periodic surveillance in each building that it leases, owns, or otherwise uses as a school building that contains ACBM or is assumed to contain ACBM", as per the AHERA regulation section 763.92 (b) (1).

As per the AHERA regulation section 763.94(d), "for each time that periodic surveillance under section 763.92(b) is performed, the local education agency shall record the name of each person performing the surveillance, the date of the surveillance and any changes in the conditions of the materials".

### 3.5 Warning Labels

As per the AHERA regulation section 763.95(a), "the LEA shall attach a warning label immediately adjacent to any friable and non-friable ACBM and suspected ACBM assumed to be ACM located in routine maintenance areas (such as boiler rooms) at each school building". LFR did observe the presence of warning labels at the school.

### 3.6 Three Year Reinspection

"At least once every 3 years after a Management Plan is in effect, each local education agency (LEA) shall conduct a reinspection of all friable and non-friable known or assumed ACBM in each school building that they lease, own, or otherwise use as a school building", as per the AHERA regulation section 763.85 (b) (1).

LFR reviewed the previous reinspection reports for this facility.

### 3.7 Short-Term Worker Notification

The AHERA regulation section 763.84 (d) requires that the LEA shall, "ensure that short-term workers (e.g., telephone repair workers, utility workers, or exterminators) who may come in contact with asbestos in a school are provided information regarding the locations of ACBM and suspected ACBM assumed to be ACM.

LFR did not observe any records in regards to the notification of short-term workers but was informed all sub-contractors are informed of the presence of all ACBM in areas they will be working.

### 3.8 Fiber Release Episodes

Upon review of the Management Plan documents, LFR did not observe any documentation regarding fiber release episodes.

"For each fiber release episode under 763.91 (f), the LEA shall provide 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 is removed, the name and location of storage or disposal site of the ACM", as per the AHERA regulation section 763.94 (h)

### 3.9 Response Actions

LFR did review documentation regarding response actions, which have been performed since the performance of the last three year reinspection. This information is listed below:

Project Date: 8/22/95  
Abatement Contractor: DEC-TAM 10 Lowell Street Andover, MA  
Project Monitoring: Recon Environmental Services  
Waste Hauler: Job Roll-Off Chelsea, MA  
Waste Disposal Site: Kelly Run Sanitation Elizabeth, PA  
Summary of Scope of Work: Removal of 5 linear feet of boiler breaching insulation and removal of approximately 400 square feet of floor tile from the hall outside pod # 1 & 3

## 4.0 REINSPECTION FINDINGS & RECOMMENDATIONS

All material inspected that are listed in the previous 3-year reinspection report remain in very good condition and no physical damage was identified during the inspection. The current condition of all materials reinspected at the school building can be seen on the Hazard Assessment Summary Sheets provided in Appendix B. All materials are evaluated for current condition, changes from previously noted condition and an assessment is made to determine the recommended response for each material. Provided in the next section is a Hazard Priority Summary which ranks the materials in the order of the recommended responses provided for each material. The updated Hazard Priority Summary included as section 5.0 should become the main Hazard Priority List for the LEA.

## 4.1 Recommendations

LFR recommends that any damaged asbestos-containing/suspect asbestos-containing materials which are to remain, be repaired, at a minimum.

All remaining asbestos-containing/suspect asbestos-containing Homogeneous Areas must be maintained under the provisions of an O&M Program as long as they remain in the school building.

The Fox Hill Elementary School's designated person must be notified of all scheduled renovations or demolitions that are to occur. Notification to the designated person allows for any possible disturbance of asbestos-containing materials to be prevented and for the proper handling of ACM at the School.

As required by the AHERA regulations, the Fox Hill Elementary School plan administrator should notify workers, building occupants or their legal guardians of all actions pertaining to asbestos materials at the school building(s).

If materials are discovered that have not been listed in this reinspection report or the initial Asbestos Management Plan, LFR recommends that they be treated as asbestos-containing until sampling can be performed to determine asbestos content.

## 5.0 HAZARD PRIORITY SUMMARY

The Hazard Priority Summary list ranks the Homogeneous Areas which contain asbestos according to their potential for fiber release.

Factors which may influence decisions as to when areas are to be repaired or abated apart from an area's potential for fiber release might include scheduled renovations, appropriate funding, or the availability of unoccupied areas (such as during vacation periods).

The Hazard Priority Summary list follows:

HOMOGENEOUS AREA	RECOMMENDED RESPONSE ACTION
T-01	O&M PROGRAM
M-01	O&M PROGRAM
T-02	O&M PROGRAM
T-03	O&M PROGRAM
T-04	O&M PROGRAM
M-02	O&M PROGRAM
M-03	O&M PROGRAM
S-01	O&M PROGRAM



HAZARD ASSESSMENT  
SUMMARY SHEET

PROJECT #: 104-80168	HOMOGENEOUS AREA ID #: M-01
SITE NAME: FOX HILL ELEMENTARY SCHOOL	PHOTO ID #:
MANAGEMENT PLANNER ID #: AP 51721	NUMBER OF SAMPLES: 0
SQUARE/LINEAGE FOOTAGE: 3 LN. FT	ANALYSIS RESULT: ASSUMED ACM

## AREA DESCRIPTION

HOMOGENEOUS AREA DESCRIPTION: THE MATERIAL IS BOILER GASKET MATERIAL
FUNCTIONAL SPACE DESCRIPTION: THE MATERIAL IS LOCATED IN THE BOILER ROOM

## ASSESSMENT CRITERIA - CURRENT CONDITIONS

EXISTENCE OF BARRIERS: YES	ABNORMAL ACCESS FEATURES: YES
AIR EROSION: LOW	MAINTENANCE ACTIVITIES: LOW
STUDENT/STAFF ACTIVITIES: LOW	VANDALISM: LOW
OTHER:	POTENTIAL FOR FIBER RELEASE: LOW

COMMENTS: DUE TO THE MATERIALS LOW FRIABILITY ITS POTENTIAL FOR FIBER RELEASE IS LOW

## DAMAGE FACTORS

WATER	HIGH=	MODERATE=	LOW= <1%
PHYSICAL	HIGH=	MODERATE=	LOW= <1%

DAMAGE FACTORS: NORMAL STUDENT/STAFF ACTIVITIES

## RECOMMENDED RESPONSE ACTION (OVERALL)

<input type="checkbox"/> IMMEDIATE REMOVAL
<input type="checkbox"/> REMOVE WHEN PRACTICAL
<input type="checkbox"/> PATCH & REPAIR
<input type="checkbox"/> ENCLOSURE
<input type="checkbox"/> ENCAPSULATION
<input checked="" type="checkbox"/> OPERATIONS & MAINTENANCE
<input type="checkbox"/> OTHER

RESPONSE ACTION RATIONALE: THE MATERIAL SHOULD BE MAINTAINED UNDER THE PROVISIONS OF AN OPERATIONS AND MAINTENANCE PROGRAM

ABATEMENT COST ESTIMATE - HOMOGENEOUS AREA ID #: M-01  
 (LINEAR FOOTAGE) X (REMOVAL PRICE PER FOOT)  
 3 X \$25.00 = \$75.00  
 (SQUARE FOOTAGE) X (REMOVAL PRICE PER FOOT)  
 OTHER X \$12.00 =  
 (SQUARE FOOTAGE) X (REMOVAL PRICE PER FOOT)  
 X \$2.50 =  
 TOTAL REMOVAL COST ESTIMATE = \$75.00

HAZARD ASSESSMENT  
SUMMARY SHEET

PROJECT #: 104-80168	HOMOGENEOUS AREA ID #: M-02
SITE NAME: FOX HILL ELEMENTARY SCHOOL	PHOTO ID #:
MANAGEMENT PLANNER ID #: AP 51721	NUMBER OF SAMPLES: PREVIOUSLY SAMPLED
SQUARE/LINEAGE FOOTAGE: 5,346 SQ. FT.	ANALYSIS RESULT: 35-45% ACM

## AREA DESCRIPTION

HOMOGENEOUS AREA DESCRIPTION: THE MATERIAL IS BLUE AND GRAY TRANSITE SIDING
FUNCTIONAL SPACE DESCRIPTION: THIS MATERIAL IS LOCATED AROUND THE OUTER WALLS/EXTERIOR OF THE BUILDING

## ASSESSMENT CRITERIA - CURRENT CONDITIONS

EXISTENCE OF BARRIERS: NO	ABNORMAL ACCESS FEATURES: NO
AIR EROSION: LOW	MAINTENANCE ACTIVITIES: LOW
STUDENT/STAFF ACTIVITIES: LOW	VANDALISM: LOW
OTHER:	POTENTIAL FOR FIBER RELEASE: LOW

COMMENTS: MAINTENANCE STAFF AND OUTSIDE CONTRACTORS SHOULD BE INFORMED REGULARLY THAT THIS MATERIAL SHOULD NOT BE DISTURBED

## DAMAGE FACTORS

WATER	HIGH=	MODERATE=	LOW= <1%
PHYSICAL	HIGH=	MODERATE=	LOW= <1%

DAMAGE FACTORS: NORMAL STUDENT/STAFF ACTIVITIES

## RECOMMENDED RESPONSE ACTION (OVERALL)

<input type="checkbox"/> IMMEDIATE REMOVAL
<input type="checkbox"/> REMOVE WHEN PRACTICAL
<input type="checkbox"/> PATCH & REPAIR
<input type="checkbox"/> ENCLOSURE
<input type="checkbox"/> ENCAPSULATION
<input checked="" type="checkbox"/> OPERATIONS & MAINTENANCE
<input type="checkbox"/> OTHER

RESPONSE ACTION RATIONALE: THE MATERIAL SHOULD BE MAINTAINED UNDER THE PROVISIONS OF AN OPERATIONS AND MAINTENANCE PROGRAM

ABATEMENT COST ESTIMATE - HOMOGENEOUS AREA ID #: M-02  
 (LINEAR FOOTAGE) X (REMOVAL PRICE PER FOOT)  
 X \$25.00 =  
 (SQUARE FOOTAGE) X (REMOVAL PRICE PER FOOT)  
 OTHER X \$12.00 =  
 (SQUARE FOOTAGE) X (REMOVAL PRICE PER FOOT)  
 5,346 SQUARE FEET X \$15.00 = \$80,190.00  
 TOTAL REMOVAL COST ESTIMATE = \$80,190.00

HAZARD ASSESSMENT  
SUMMARY SHEET

PROJECT #: 104-80168	HOMOGENEOUS AREA ID #: M-03
SITE NAME: FOX HILL ELEMENTARY SCHOOL	PHOTO ID #:
MANAGEMENT PLANNER ID #: AP 51721	NUMBER OF SAMPLES: 0
SQUARE/LINEAR FOOTAGE: 49,332 SQUARE FEET	ANALYSIS RESULT: ASSUMED ACBM

## AREA DESCRIPTION

HOMOGENEOUS AREA DESCRIPTION: THE MATERIAL IS WHITE 12" X 12" FLOOR TILE AND MASTIC IN VARIOUS COLORS
FUNCTIONAL SPACE DESCRIPTION: THE MATERIAL IS LOCATED IN CLASSROOMS, STORAGE AREAS, CAFETERIA AND HALLWAYS

## ASSESSMENT CRITERIA - CURRENT CONDITIONS

EXISTENCE OF BARRIERS: YES	ABNORMAL ACCESS FEATURES: NO
AIR EROSION: LOW	MAINTENANCE ACTIVITIES: LOW
STUDENT/STAFF ACTIVITIES: LOW	VANDALISM: LOW
OTHER:	POTENTIAL FOR FIBER RELEASE: LOW

COMMENTS: DUE TO THE MATERIALS LOW FRIABILITY ITS POTENTIAL FOR FIBER RELEASE IS LOW.

## DAMAGE FACTORS

WATER	HIGH =	MODERATE =	LOW = < 2%
PHYSICAL	HIGH =	MODERATE =	LOW = < 1%

DAMAGE FACTORS: SLIGHT WATER DAMAGE & DETERIORATION FROM AGE AND USE

## RECOMMENDED RESPONSE ACTION (OVERALL)

<input type="checkbox"/> IMMEDIATE REMOVAL
<input type="checkbox"/> REMOVE WHEN PRACTICAL
<input type="checkbox"/> PATCH & REPAIR
<input type="checkbox"/> ENCLOSURE
<input type="checkbox"/> ENCAPSULATION
<input checked="" type="checkbox"/> OPERATIONS & MAINTENANCE
<input type="checkbox"/> OTHER

RESPONSE ACTION RATIONALE: THE MATERIAL SHOULD BE MAINTAINED UNDER THE PROVISIONS OF AN OPERATION AND MAINTENANCE PROGRAM.

ABATEMENT COST ESTIMATE - HOMOGENEOUS AREA ID #: M-03  
(LINEAR FOOTAGE) X (REMOVAL PRICE PER FOOT)  
X \$25.00 =  
(SQUARE FOOTAGE) X (REMOVAL PRICE PER FOOT)  
OTHER X \$12.00 =  
(SQUARE FOOTAGE) X (REMOVAL PRICE PER FOOT)  
48,932 SQUARE FEET X \$2.50 = \$122,330.00  
TOTAL REMOVAL COST ESTIMATE = \$122,330.00

HAZARD ASSESSMENT  
SUMMARY SHEET

PROJECT #: 104-80168	HOMOGENEOUS AREA ID #: S-01
SITE NAME: FOX HILL ELEMENTARY SCHOOL	PHOTO ID #:
MANAGEMENT PLANNER ID #: AP 51721	NUMBER OF SAMPLES: 0
SQUARE/LINEAR FOOTAGE: 1,500 SQ. FT.	ANALYSIS RESULT: ASSUMED ACBM

## AREA DESCRIPTION

HOMOGENEOUS AREA DESCRIPTION: THE MATERIAL IS HARD WALL PLASTER
FUNCTIONAL SPACE DESCRIPTION: THE MATERIAL IS LOCATED IN THE CAFETERIA

## ASSESSMENT CRITERIA - CURRENT CONDITIONS

EXISTENCE OF BARRIERS: NO	ABNORMAL ACCESS FEATURES: NO
AIR EROSION: LOW	MAINTENANCE ACTIVITIES: LOW
STUDENT/STAFF ACTIVITIES: LOW	VANDALISM: LOW
OTHER:	POTENTIAL FOR FIBER RELEASE: LOW

COMMENTS: DUE TO THE MATERIALS LOW FRIABILITY ITS POTENTIAL FOR FIBER RELEASE IS LOW.

## DAMAGE FACTORS

WATER	HIGH =	MODERATE =	LOW = < 1%
PHYSICAL	HIGH =	MODERATE =	LOW = < 1%

DAMAGE FACTORS: NORMAL WEAR & TEAR DUE TO STUDENTS/STAFF ACTIVITIES.

## RECOMMENDED RESPONSE ACTION (OVERALL)

<input type="checkbox"/> IMMEDIATE REMOVAL
<input type="checkbox"/> REMOVE WHEN PRACTICAL
<input type="checkbox"/> PATCH & REPAIR
<input type="checkbox"/> ENCLOSURE
<input type="checkbox"/> ENCAPSULATION
<input checked="" type="checkbox"/> OPERATIONS & MAINTENANCE
<input type="checkbox"/> OTHER

RESPONSE ACTION RATIONALE: THE MATERIAL SHOULD BE MAINTAINED UNDER THE PROVISIONS OF AN OPERATIONS AND MAINTENANCE PROGRAM

ABATEMENT COST ESTIMATE - HOMOGENEOUS AREA ID #: M-04  
(LINEAR FOOTAGE) X (REMOVAL PRICE PER FOOT)  
X \$25.00 =  
(SQUARE FOOTAGE) X (REMOVAL PRICE PER FOOT)  
OTHER X \$12.00 =  
(SQUARE FOOTAGE) X (REMOVAL PRICE PER FOOT)  
1,500 SQ. FT. X \$2.50 = \$18,000.00  
TOTAL REMOVAL COST ESTIMATE = \$18,000.00



HAZARD ASSESSMENT  
SUMMARY SHEET

PROJECT #: 104-80168	HOMOGENEOUS AREA ID #: T-01
SITE NAME: FOX HILL ELEMENTARY SCHOOL	PHOTO ID #:
MANAGEMENT PLANNER ID #: AP 31721	NUMBER OF SAMPLES: 0
SQUARE/LINEAGE FOOTAGE: 10,500 SQ. FT.	ANALYSIS RESULT: ASSUMED ACRM

## AREA DESCRIPTION

HOMOGENEOUS AREA DESCRIPTION: THE MATERIAL IS GRAY TANK INSULATION
FUNCTIONAL SPACE DESCRIPTION: THE MATERIAL IS LOCATED IN THE BOILER ROOM

## ASSESSMENT CRITERIA - CURRENT CONDITIONS

EXISTENCE OF BARRIERS: NO	ABNORMAL ACCESS FEATURES: YES
AIR EROSION: LOW	MAINTENANCE ACTIVITIES: LOW
STUDENT/STAFF ACTIVITIES: LOW	VANDALISM: LOW
OTHER:	POTENTIAL FOR FIBER RELEASE: MODERATE

COMMENTS: ANY MATERIALS SHOULD BE PATCHED &amp; REPAIRED

## DAMAGE FACTORS

WATER	HIGH=	MODERATE=	LOW = < 5%
PHYSICAL	HIGH=	MODERATE=	LOW = < 5%

DAMAGE FACTORS: WATER LEAKS &amp; MAINTENANCE ACTIVITIES

## RECOMMENDED RESPONSE ACTION (OVERALL)

<input type="checkbox"/> IMMEDIATE REMOVAL
<input type="checkbox"/> REMOVE WHEN PRACTICAL
<input checked="" type="checkbox"/> PATCH & REPAIR
<input type="checkbox"/> ENCLOSURE
<input type="checkbox"/> ENCAPSULATION
<input checked="" type="checkbox"/> OPERATIONS & MAINTENANCE
<input type="checkbox"/> OTHER

RESPONSE ACTION RATIONALE: THE MATERIAL SHOULD BE MAINTAINED UNDER THE PROVISIONS OF AN OPERATIONS AND MAINTENANCE PROGRAM.

## ABATEMENT COST ESTIMATE - HOMOGENEOUS AREA ID #: M-05

(LINEAR FOOTAGE) X (REMOVAL PRICE PER FOOT)  
X \$25.00 =

(SQUARE FOOTAGE) X (REMOVAL PRICE PER FOOT)  
SQ. FT. X \$1.50 =

(SQUARE FOOTAGE) X (REMOVAL PRICE PER FOOT)  
126 SQ. FT. X \$25.00 = \$3,150.00

TOTAL REMOVAL COST ESTIMATE = \$3,150.00

HAZARD ASSESSMENT  
SUMMARY SHEET

PROJECT #: 104-80168	HOMOGENEOUS AREA ID #: T-02
SITE NAME: FOX HILL ELEMENTARY SCHOOL	PHOTO ID #:
MANAGEMENT PLANNER ID #: AP 31721	NUMBER OF SAMPLES: PREVIOUSLY SAMPLED
SQUARE/LINEAGE FOOTAGE: 85 LN. FT.	ANALYSIS RESULT: 1-3% ACRM

## AREA DESCRIPTION

HOMOGENEOUS AREA DESCRIPTION: THE MATERIAL IS HARD PACKED FITTING INSULATION ON STRAIGHT FIBER-GLASS INSULATED PIPE
FUNCTIONAL SPACE DESCRIPTION: THE MATERIAL IS LOCATED IN THE BOILER ROOM

## ASSESSMENT CRITERIA - CURRENT CONDITIONS

EXISTENCE OF BARRIERS: NO	ABNORMAL ACCESS FEATURES: YES
AIR EROSION: LOW	MAINTENANCE ACTIVITIES: LOW
STUDENT/STAFF ACTIVITIES: LOW	VANDALISM: LOW
OTHER:	POTENTIAL FOR FIBER RELEASE: LOW

COMMENTS: THE MATERIALS SHOULD BE MAINTAINED UNDER THE PROVISIONS OF AN O &amp; M PROGRAM.

## DAMAGE FACTORS

WATER	HIGH=	MODERATE=	LOW = < 1%
PHYSICAL	HIGH=	MODERATE=	LOW = < 3%

DAMAGE FACTORS: NORMAL STUDENT/STAFF ACTIVITIES AND WATER LEAKS

## RECOMMENDED RESPONSE ACTION (OVERALL)

<input type="checkbox"/> IMMEDIATE REMOVAL
<input type="checkbox"/> REMOVE WHEN PRACTICAL
<input checked="" type="checkbox"/> PATCH & REPAIR
<input type="checkbox"/> ENCLOSURE
<input type="checkbox"/> ENCAPSULATION
<input checked="" type="checkbox"/> OPERATIONS & MAINTENANCE
<input type="checkbox"/> OTHER

RESPONSE ACTION RATIONALE: THE MATERIAL SHOULD BE MAINTAINED UNDER THE PROVISIONS OF AN OPERATIONS AND MAINTENANCE PROGRAM.

## ABATEMENT COST ESTIMATE - HOMOGENEOUS AREA ID #: T-02

(LINEAR FOOTAGE) X (REMOVAL PRICE PER FOOT)  
85 LN. FT. X \$25.00 = \$2,125.00

(SQUARE FOOTAGE) X (REMOVAL PRICE PER FOOT)  
SQ. FT. X \$1.50 =

(SQUARE FOOTAGE) X (REMOVAL PRICE PER FOOT)  
TOTAL REMOVAL COST ESTIMATE = \$2,125.00

HAZARD ASSESSMENT  
SUMMARY SHEET

PROJECT #: 104-80168	HOMOGENEOUS AREA ID #: T-03
SITE NAME: FOX HILL ELEMENTARY SCHOOL	PHOTO ID #:
MANAGEMENT PLANNER ID #: AP 51721	NUMBER OF SAMPLES: PREVIOUSLY SAMPLED
SQUARE/LINEAGE FOOTAGE: 24 SQ. FT.	ANALYSIS RESULT: 40-50% ACBM

## AREA DESCRIPTION

HOMOGENEOUS AREA DESCRIPTION: THE MATERIAL IS BOILER BREACHING INSULATION
FUNCTIONAL SPACE DESCRIPTION: THE MATERIAL IS LOCATED IN THE BOILER ROOM

## ASSESSMENT CRITERIA - CURRENT CONDITIONS

EXISTENCE OF BARRIERS: NO	ABNORMAL ACCESS FEATURES: YES
AIR EROSION: LOW	MAINTENANCE ACTIVITIES: LOW
STUDENT/STAFF ACTIVITIES: LOW	VANDALISM: LOW
OTHER:	POTENTIAL FOR FIBER RELEASE: LOW

COMMENTS: MATERIAL IS IN A REMOTE PART OF THE BUILDING (BOILER ROOM)

## DAMAGE FACTORS

WATER	HIGH =	MODERATE =	LOW = <2%
PHYSICAL	HIGH =	MODERATE =	LOW = <4%

DAMAGE FACTORS: MAINTENANCE ACTIVITIES AND WATER LEAKS ARE PROBABLE CAUSES OF DAMAGE

## RECOMMENDED RESPONSE ACTION (OVERALL)

<input type="checkbox"/> IMMEDIATE REMOVAL
<input type="checkbox"/> REMOVE WHEN PRACTICAL
<input type="checkbox"/> PATCH & REPAIR
<input type="checkbox"/> ENCLOSURE
<input type="checkbox"/> ENCAPSULATION
<input checked="" type="checkbox"/> OPERATIONS & MAINTENANCE
<input type="checkbox"/> OTHER

RESPONSE ACTION RATIONALE: THE MATERIAL SHOULD BE MAINTAINED UNDER THE PROVISIONS OF AN OPERATION AND MAINTENANCE PROGRAM.

ABATEMENT COST ESTIMATE - HOMOGENEOUS AREA ID #: T-03  
 (LINEAR FOOTAGE) X (REMOVAL PRICE PER FOOT)  
 X \$25.00 =  
 (SQUARE FOOTAGE) X (REMOVAL PRICE PER FOOT)  
 40 SQ. FT. X \$25.00 = \$1,000.00  
 TOTAL REMOVAL COST ESTIMATE = \$1,000.00

HAZARD ASSESSMENT  
SUMMARY SHEET

PROJECT #: 104-80168	HOMOGENEOUS AREA ID #: T-04
SITE NAME: FOX HILL ELEMENTARY SCHOOL	PHOTO ID #:
MANAGEMENT PLANNER ID #: AP 51721	NUMBER OF SAMPLES: 0
SQUARE/LINEAGE FOOTAGE: N/A.	ANALYSIS RESULT: ASSUMED ACBM

## AREA DESCRIPTION

HOMOGENEOUS AREA DESCRIPTION: THE MATERIAL IS HARD PACKED FITTING INSULATION
FUNCTIONAL SPACE DESCRIPTION: THE MATERIAL IS LOCATED THROUGHOUT THE BUILDING BEHIND WALLS AND ABOVE SOME CEILINGS

## ASSESSMENT CRITERIA - CURRENT CONDITIONS

EXISTENCE OF BARRIERS: YES	ABNORMAL ACCESS FEATURES: YES
AIR EROSION: LOW	MAINTENANCE ACTIVITIES: MODERATE
STUDENT/STAFF ACTIVITIES: LOW	VANDALISM: LOW
OTHER:	POTENTIAL FOR FIBER RELEASE: LOW

COMMENTS: DUE TO THE MATERIALS LOW FRIABILITY ITS POTENTIAL FOR FIBER RELEASE IS LOW.

## DAMAGE FACTORS

WATER	HIGH =	MODERATE =	LOW = <1%
PHYSICAL	HIGH =	MODERATE =	LOW = <1%

DAMAGE FACTORS: NORMAL STUDENT/STAFF ACTIVITIES

## RECOMMENDED RESPONSE ACTION (OVERALL)

<input type="checkbox"/> IMMEDIATE REMOVAL
<input type="checkbox"/> REMOVE WHEN PRACTICAL
<input type="checkbox"/> PATCH & REPAIR
<input type="checkbox"/> ENCLOSURE
<input type="checkbox"/> ENCAPSULATION
<input checked="" type="checkbox"/> OPERATIONS & MAINTENANCE
<input type="checkbox"/> OTHER

RESPONSE ACTION RATIONALE: THE MATERIAL SHOULD BE MAINTAINED UNDER THE PROVISIONS OF AN OPERATION AND MAINTENANCE PROGRAM.

ABATEMENT COST ESTIMATE - HOMOGENEOUS AREA ID #: T-04  
 (LINEAR FOOTAGE) X (REMOVAL PRICE PER FOOT)  
 X \$25.00 =  
 (SQUARE FOOTAGE) X (REMOVAL PRICE PER FOOT)  
 SQ. FT. X \$1.00 =  
 (SQUARE FOOTAGE) X (REMOVAL PRICE PER FOOT)  
 TOTAL REMOVAL COST ESTIMATE = UNKNOWN





TOWN OF BURLINGTON

BOARD OF HEALTH  
61 Center Street  
Burlington, Massachusetts 01803  
(617) 270-1655 • Fax 270-1605

Purchase Order

Purchase Order	532
204291430	

ACCOUNT TO BE CHARGED

PURCHASE ORDER

Burlington Public Schools  
Burlington, MA 01803-3788

To: Craig Robinson  
Director of Facilities & Grounds

October 16, 1997

From: Todd H. Dresser *THD*  
Environmental Engineer

Subject: Leaking underground storage tank at Foxhill School

I would like to request a copy of the following information related to the leaking underground storage tank discovered at the Foxhill School: the release notification form filed with the Massachusetts Department of Environmental Protection, a copy of all sampling or environmental assessment data generated by this discovery, a copy of the signed bill of lading for the disposal of the contaminated soil, and a copy of the closure form filed with the DEP. I already have the tank disposal records and the manifest for the disposal of the oil removed from this tank.

I would appreciate it if you could forward this information to the Board of Health at your earliest convenience.

Jodi General Contractors 36 Douglas Avenue Burlington, MA 01803 Attn: Richard J. Bagnl 272-4437
--

Date	Quantity	Description	Dept. Plants	Mass. Tax Exempt 04-600-1104W	Amount
10/15/97		Removal 500 gallon UST & dispose Remove contaminated soil & dispose Install new slab for 275 dble wall tank for generator Remove ol 275 gl tank & dispose			3150.00
		Total:			3150.00



**GULF OF MAINE RESEARCH CENTER INC.**  
ENVIRONMENTAL CONSULTING SERVICES

204 LAFAYETTE STREET  
SALEM, MA 01970  
(508) 745-6618  
FAX (508) 741-8649

August 18, 1997

Dr. James Picone  
Assistant Superintendent for Business & Finance  
Burlington Public School Department  
123 Cambridge Street  
Burlington, MA 01803

RE: Underground Storage Tank Removal  
and Limited Removal Action  
Fox Hill School, Burlington, MA

Dear Dr. Picone:

Gulf of Maine Research Center, Inc. (GMRC) is pleased to provide this summary report of environmental services at the property referenced above (the "Site").

On April 23, 1997, a 500 gallon underground No. 2 fuel oil storage tank (UST) was removed from the west side of the Fox Hill School (Figure 1) and disposed of by Jodi General Contractors (JGC) of Burlington, MA. During removal of the tank, a small quantity of stained soil was encountered in the vicinity of the fill pipe on the UST. JGC notified the Burlington Fire Department and the Burlington Board of Health that apparent soil contamination had been encountered.

On the same date, Jeffrey Kelly of GMRC supervised the excavation and segregation of suspected contaminated soil. All stained soil was excavated, stockpiled on, and covered with 6 mil polyethylene sheeing. Soil expected to be clean was placed in a separate pile.

Following removal of the stained soil, one soil sample was collected from each of the four tank excavation walls (SS 101 - SS 104). The floor of the tank excavation was formed by

GULF OF MAINE RESEARCH CENTER INC.

the concrete UST anchor pad. Therefore, a soil sample was not collected from the floor. One representative soil sample, designated SP 101, was collected from the stockpile of suspected clean material and one representative soil sample, designated SP 102 was collected from the suspected contaminated stockpile. Soil samples were kept cold until they were delivered to ESS of Cranston, RI (a Massachusetts Certified Laboratory) for analysis of total petroleum hydrocarbon (TPH) by EPA 8160M. The results of the analyses are presented in Table 1. Full laboratory reports and chain of custody documentation are included in Appendix A.

Table 1  
Petroleum in Soil  
Fox Hill School, Burlington, MA  
April, 1997

Sample ID	Location	TPH (mg/kg)
SS 101	Tank Pit Wall	<28
SS 102	Tank Pit Wall	<28
SS 103	Tank Pit Wall	<28
SS 104	Tank Pit Wall	<27
SP 101	"Clean" Stockpile	<27
SP 102	"Contaminated" Stockpile	926*

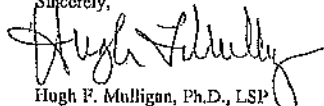
\* TPH by EPA 418.1

The data presented in Table 1 indicates that residual petroleum hydrocarbon concentration in soil in the vicinity of the former UST at the Fox Hill School is less than 28 mg/kg. The clean stockpile was returned to the UST excavation. Clean fill from off site was used to backfill the excavation to the existing grade. The contaminated soil stockpile was transported to Bardon Trimount of Salem, MA for recycling into bituminous pavement on August 7, 1997 (Appendix B).

GULF OF MAINE RESEARCH CENTER INC.

The soil removal has been performed as a "Limited Removal Action" in accordance with 310 CMR 40.0318. Because levels of residual petroleum have been reduced to below 500 mg/kg, reporting to the Massachusetts Department of Environmental Protection (DEP) is not required. Pursuant to 310 CMR 40.0318(7)(6) you must retain this report and supporting documentation for a minimum of five years. GMRC recommends that you retain it indefinitely.

If you have any questions, please contact me or my associate, Jeffrey Kelly. The results of this investigation and Response Action are subject to the Limitations stated in Appendix C.

Sincerely,  
  
Hugh F. Mulligan, Ph.D., LSP  
Director

cc: Richard Bagni, Sr.  
Jodi General Contractors

APPENDIX A  
LABORATORY REPORTS



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS PROJECT NARRATIVE

CLIENT: Gulf of Maine Research  
CLIENT PROJECT ID: Fox Hill School  
ESS PROJECT ID: 971330

### Sample Receipt

Six solid samples were received on April 25, 1997 for the analyses specified on the enclosed Chain of Custody Record.

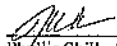
### Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. These analyses with these noted observations are in conformance to the Quality Assurance Plan.

No unusual observations noted.

This signed Certificate of Analysis is our approved release of your analytical results. Beginning with this Project Narrative, the entire report has been paginated. The Chain of Custody is the final report page. This report should not be copied except in full without the approval of the laboratory.

End of project narrative.

  
Phyllis Shiller/Ron McCullen  
Laboratory Director/QA Manager

5/20/97  
Date

0001

195 Frances Avenue, Cranston, RI 02910-2211

Tel. (401) 467-6454 Fax (401) 467-2398

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS


TOTAL PETROLEUM HYDROCARBON GC/FID  
8100M

Client: Gulf of Maine Research  
Client Project ID: Fox Hill School  
Client Sample ID: SS 101  
Date Sampled: 4/23/97  
Date Analyzed: 5/9/97

ESS Project ID: 971330  
ESS Sample ID: 971330-01  
Date Extracted: 5/7/97  
Dilution Factor: 1x

Parameter	Results (mg/Kg dry wt.)	MRL
Total Petroleum Hydrocarbon	ND	28

ND = Not Detected above Method Reporting Limit (MRL)

Approved by:   
195 Frances Avenue, Cranston, RI 02910-2211

Date: 5/20/97 0002  
Tel. (401) 467-6454 Fax (401) 467-2398

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS


TOTAL PETROLEUM HYDROCARBON GC/FID  
8100M

Client: Gulf of Maine Research  
Client Project ID: Fox Hill School  
Client Sample ID: SS 102  
Date Sampled: 4/23/97  
Date Analyzed: 5/9/97

ESS Project ID: 971330  
ESS Sample ID: 971330-02  
Date Extracted: 5/7/97  
Dilution Factor: 1x

Parameter	Results (mg/Kg dry wt.)	MRL
Total Petroleum Hydrocarbon	ND	28

ND = Not Detected above Method Reporting Limit (MRL)

Approved by:   
195 Frances Avenue, Cranston, RI 02910-2211

Date: 5/20/97 0003  
Tel. (401) 467-6454 Fax (401) 467-2398

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

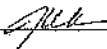
TOTAL PETROLEUM HYDROCARBON GC/FID  
8100M

Client: Gulf of Maine Research  
Client Project ID: Fox Hill School  
Client Sample ID: SS 103  
Date Sampled: 4/23/97  
Date Analyzed: 5/9/97

ESS Project ID: 971330  
ESS Sample ID: 971330-03  
Date Extracted: 5/7/97  
Dilution Factor: 1x

Parameter	Results (mg/Kg dry wt.)	MRL
Total Petroleum Hydrocarbon	ND	28

ND = Not Detected above Method Reporting Limit (MRL)

Approved by:   
195 Frances Avenue, Cranston, RI 02910-2211

Date: 5/20/97 0004  
Tel. (401) 467-6454 Fax (401) 467-2398

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

TOTAL PETROLEUM HYDROCARBON GC/FID  
8100M

Client: Gulf of Maine Research  
Client Project ID: Fox Hill School  
Client Sample ID: SS 104  
Date Sampled: 4/23/97  
Date Analyzed: 5/9/97

ESS Project ID: 971330  
ESS Sample ID: 971330-04  
Date Extracted: 5/7/97  
Dilution Factor: 1x

Parameter	Results (mg/Kg dry wt.)	MRL
Total Petroleum Hydrocarbon	ND	27

ND = Not Detected above Method Reporting Limit (MRL)

Approved by: [Signature]  
195 Frances Avenue, Cranston, RI 02910-2211

Date: 5/20/97 0005  
Tel. (401) 467-6454 Fax (401) 467-2398

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

TOTAL PETROLEUM HYDROCARBON GC/FID  
8100M

Client: Gulf of Maine Research  
Client Project ID: Fox Hill School  
Client Sample ID: SP 101  
Date Sampled: 4/23/97  
Date Analyzed: 5/9/97

ESS Project ID: 971330  
ESS Sample ID: 971330-05  
Date Extracted: 5/7/97  
Dilution Factor: 1x

Parameter	Results (mg/Kg dry wt.)	MRL
Total Petroleum Hydrocarbon	ND	27

ND = Not Detected above Method Reporting Limit (MRL)

Approved by: [Signature]  
195 Frances Avenue, Cranston, RI 02910-2211

Date: 5/20/97 0006  
Tel. (401) 467-6454 Fax (401) 467-2398



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client: Gulf of Maine Research

Client Project ID: Fox Hill School

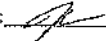
Client Sample ID: SP 102

ESS Project ID: 971330

ESS Sample ID: 971330-06

Parameter	Result	Units	MRL	Method
Total Petroleum Hydrocarbon	926	mg/Kg	22	418.1

MRL = Method Reporting Limit

Approved by:   
195 Francis Avenue, Cranston, RI 02910-2211

Date: 5/20/07 0307

Tel. (401) 467-6454 Fax (401) 467-2898

PERCENT SOLIDS SECTION

0308

# ESS Laboratory

Division of Thibodeau Engineering, Inc.

## CERTIFICATE OF ANALYSIS

### PERCENT SOLIDS

Client: Gulf of Maine Research

Client Project ID: Fox Hill School

Date Sampled: 4/23/97

ESS Project ID: 971330

Date Reported: 5/20/97

ESS Laboratory Sample ID	Client Sample ID	Result (%)
971330-01	SS 101	90
971330-02	SS 102	89
971330-03	SS 103	90
971330-04	SS 104	91
971330-05	SP 101	92
971330-06	SP 102	92

QUALITY CONTROL SECTION

Approved by: *[Signature]*

Date: 5/21/97

0009

195 Frances Avenue, Cranston, RI 02910-2211

Tel. (401) 467-6454 Fax (401) 467-2398

0010

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

### TOTAL PETROLEUM HYDROCARBON-GC SURROGATE RECOVERY

Client: Gulf of Maine Research

Client Project ID: Fox Hill School

ESS Project ID: 971330

Sample ID	o-Terphenyl (50-150%)
GC0507B2	75
971330-01	89
971330-02	76
971330-03	81
971330-04	76
971330-05	87

# Column to be used to flag recovery values with an asterisk when outside of Advisory Limits.

Approved by: 

Date: 5/21/97

0011

195 Frances Avenue, Cranston, RI 02910-2211

Tel. (401) 467-6454 Fax (401) 467-2398

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

### TOTAL PETROLEUM HYDROCARBON GC/ID 8100M

Client: Gulf of Maine Research

Client Project ID: Fox Hill School

Client Sample ID: Method Blank

Date Sampled: N/A

Date Analyzed: 5/9/97

ESS Project ID: 971330

ESS Sample ID: GC0507B2


Date Extracted: 5/7/97

Dilution Factor: 1x

Parameter	Results (mg/Kg dry wt.)	MRL
Total Petroleum Hydrocarbon	ND	25

N/A = Not Applicable

ND = Not Detected above Method Reporting Limit (MRL)

Approved by: 

Date: 5/21/97 0012

195 Frances Avenue, Cranston, RI 02910-2211

Tel. (401) 467-6454 Fax (401) 467-2398



# ESS LABORATORY CERTIFICATIONS

Rhode Island: RI002

Connecticut: PH-0750

Maine: RI002

Massachusetts: RI002

New Hampshire:  
Drinking Water: 242496-F  
Wastewater: 242496-B

New Jersey: 78002

New York: 11313  
Environmental Analysis/Water: 033976  
Solid and Hazardous Waste: 033977

0016

## ESS Laboratory

Division of Thietech Engineering, Inc.  
185 Frances Avenue, Cranston, RI 02910-2211  
Tel. (401) 461-7181 Fax (401) 461-4486

## CHAIN OF CUSTODY

Page 1 of 1

ESS-LAB PROJECT ID 971300		ANALYSIS REQUIRED	
Cdn. Name: <u>Coniff &amp; Maine</u> Project #: Project Name: <u>Fox Hill School</u>		Type of Container: Number of Containers:	
Contact Person: <u>JEFF KETLY</u> Address: <u>204 Lafayette St.</u> City: <u>Salem</u> State: <u>MA</u> Zip: <u>01970</u> Tel: <u>508-745-1618</u> Purchase Order #: _____ Fax #: <u>508-741-8648</u>		Type of Container: Number of Containers:	
ESS LAB Sample #	Date	Collection Time	Sample Identification
-01	4/23/97	PM	SS 101
-02			SS 102
-03			SS 103
-04			SS 104
-05			SS SP 101
-06			SP 102
Please provide verbal for TPH for SP 102 prior to holding time expires for 8240 if PCSS. Thanks!			
Container Type:	P-Poly	C-Glass	S-Sterile
	V-VOA	M-Matrix	S-Solid
	DW-Drinking Water	GW-Ground Water	WW-Wastewater
Seal Intact: Yes ___ No ___	Comments: Total 6 TSP Metals for Arsenic Cadmium Chromium Mercury Flead. All samples to be analyzed for TPH. SP 102 may depending on TPH results, be analyzed for additional parameters.		
Cooler Temp: _____	Date/Time: _____	Date/Time: _____	Date/Time: _____
Signature: _____	Date/Time: _____	Signature: _____	Date/Time: _____
Signature: _____	Date/Time: _____	Signature: _____	Date/Time: _____

GULF OF MAINE RESEARCH CENTER INC.

APPENDIX B  
SOIL DISPOSAL DOCUMENTATION

Barton Trimount, Inc.  
1101 Kappa Street  
Saughittion  
Massachusetts  
02972  
Tel: 617 - 344 - 1100  
Fax: 617 - 341 - 2140



August 8, 1997

JEFF KELLY  
GULF OF MAINE RESEARCH CENTER  
204 LAFAYETTE STREET  
SALEM, MA 01970

Re: Soil, Fox Hill School  
Fox Hill Road  
Burlington, MA  
Release Tracking #: LRA

The recyclable soil from the above address was received at our facility on August 7, 1997. Attached are the shipper's log of soil receipts which total 8.78 tons along with the Bills of Lading and other receipt documentation.

We will issue a "Certificate of Recycling" upon request after processing.

Thank you for recycling soil at our Salem facility.

Yours truly,

  
David M. Peter, Manager  
Environmental Services



Massachusetts Department of Environmental Protection BWSC-012A  
Bureau of Waste Site Cleanup

Release Tracking Number\*

BILL OF LADING (pursuant to 310 CMR 40.0030)

LRA

A. LOCATION OF SITE OR DISPOSAL SITE WHERE REMEDIATION WASTE WAS GENERATED:

Release Name (optional): Fox Hill School  
Street: Fox Hill Road Location Aid: \_\_\_\_\_  
City/Town: Burlington, MA Zip Code: 01803  
Date/Period of Generation: 04/23/97 to 04/23/97  
Additional Release Tracking Numbers Associated with this Bill of Lading: NONE

\*Note: If this Bill of Lading is the result of a Limited Removal Action (LRA) taken prior to Notification, a Release Tracking Number is not needed.

B. PERSON CONDUCTING RESPONSE ACTION ASSOCIATED WITH BILL OF LADING:

Name of Organization: Burlington Public School Department  
Name of Contact: JAMES PICONE Title: Assistant Superintendent  
Street: 123 Cambridge Street  
City/Town: Burlington State: MA Zip Code: 01803  
Telephone: 617-272-1811 Ext. \_\_\_\_\_

C. RELATIONSHIP TO RELEASE OR THREAT OF RELEASE OF PERSON CONDUCTING RESPONSE ACTION ASSOCIATED WITH BILL OF LADING:

(check one/specify)  
 RP Specify (circle one): Owner Operator Generator Transporter Other RP:  
 PRP Specify (circle one): Owner Operator Generator Transporter Other PRP:  
 Fiduciary/Secured Lender  
 Agency/Public Utility on a Right of Way  
 Other Person: \_\_\_\_\_

If an owner and/or operator is not conducting the response action associated with the Bill of Lading, provide on an attachment the name, contact person, address and telephone number, including any area code and extension, for each, if known.

D. TRANSPORTER/Common CARRIER INFORMATION:

Transporter/Common Carrier Name: Jodi General Contractors  
Contact Person: Richard Bagni Sr. Title: General Manager  
Street: 36 Douglas Avenue  
City/Town: Burlington State: MA Zip Code: 01803  
Telephone: 617-272-4437 Ext. \_\_\_\_\_

E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION:

Operator/Facility Name: Baroad Tidwint  
Contact Person: DAVID PETER Title: \_\_\_\_\_  
Street: 30 DANVERS ROAD  
City/Town: SALEM State: MA Zip Code: 01960  
Telephone: 617-341-5500 Ext. \_\_\_\_\_

Type of Facility:  Asphalt Batch/Cold Mix  Landfill/Disposal  Incinerator  
(check one)  Asphalt Batch/Hot Mix  Landfill/Daily Cover  Temporary Storage  
 Thermal Processing  Landfill/Structural Fill  Other: \_\_\_\_\_

Division of Hazardous Waste/Class A Permit #: NE-93-110 Division of Solid Waste Management Permit #: \_\_\_\_\_ EPA Identification #: MAD001014984

Actual/Anticipated Period of Temporary Storage (specify dates if applicable): 1/1 to 1/1  
Reason for Temporary Storage (if applicable): \_\_\_\_\_



Massachusetts Department of Environmental Protection BWSC-012A  
Bureau of Waste Site Cleanup

Release Tracking Number\*

BILL OF LADING (pursuant to 310 CMR 40.0030)

LRA

E. RECEIVING FACILITY/TEMPORARY STORAGE LOCATION (continued):

Temporary Storage Address:  
Street: \_\_\_\_\_  
City/Town: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

F. DESCRIPTION OF REMEDIATION WASTE:

(check all that apply)  
 Contaminated Media (circle all that apply): Soil Groundwater Surface Water Other: \_\_\_\_\_  
 Contaminated Debris (circle all that apply): Demolition/Construction Waste Vegetation/Organic Materials  
Inorganic Absorbent Materials Other: \_\_\_\_\_  
 Non-hazardous Uncontaminated Waste (circle all that apply): Non-aqueous Phase Liquid Other: \_\_\_\_\_  
 Non-hazardous Contaminated Waste (circle all that apply): Tank Bottoms/Sludges Containers Drums  
Engineered Impoundments Other: \_\_\_\_\_  
Type of Contamination (circle all that apply): Gasoline Diesel Fuel #2 Oil #4 Oil #6 Oil Waste Oil  
Kerosene Jet Fuel Other: \_\_\_\_\_

Estimated Volume of Materials: 15 Cubic Yards: \_\_\_\_\_ Tons: 22.5 Other: \_\_\_\_\_

Contaminant Source (check one/specify):  Transportation Accident  Underground Storage Tank  Other: \_\_\_\_\_

Response Action Associated with Bill of Lading (circle one): Immediate Response Action Release Abatement Measure  
Utility-Related Abatement Measure Limited Removal Action (LRA) Comprehensive Response Action  
Other (specify): \_\_\_\_\_

Remediation Waste Characterization Support Documentation attached:

Site History Information  Sampling and Analytical Methods and Procedures  Laboratory Data  Field Screening Data  
If supporting documentation is not appended, provide an attachment stating the date and in connection with what document such information was previously submitted to DEP.

G. LICENSED SITE PROFESSIONAL (LSP) OPINION:

Name of Organization: UNIV of MAINE RESEARCH CENTER  
LSP Name: Hugh F. Mulligan, Ph.D. Title: Director  
Telephone: 508-745-6618 Ext. \_\_\_\_\_

I have personally examined and am familiar with the information contained on and submitted with this form. Based on this information, it is my opinion that the testing and assessment actions undertaken were adequate to characterize the Remediation Waste, in accordance with 310 CMR 40.0030, and that the facility or location can accept remediation wastes with the characteristics described in this submittal. I am aware that significant penalties, including, but not limited to, possible fines and imprisonment may result if I knowingly submit information which I know to be false, inaccurate, or materially incomplete.

Signature: Hugh F. Mulligan  
Date: 8/16/97  
License Number: 3490



H. CERTIFICATION OF PERSON CONDUCTING RESPONSE ACTION ASSOCIATED WITH THIS BILL OF LADING:

I certify under penalties of law that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this certification, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained herein is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

Signature: James Picone (Agent for Burlington Public Schools) Date: 6/10/97  
Name of Person (print): James Picone





Fox Hill School  
Burlington, MA



Massachusetts Department of Environmental Protection BWSC-012C  
Bureau of Waste Site Cleanup

**BILL OF LADING** (pursuant to 310 CMR 40.0030)  
**SUMMARY SHEET**

Release Tracking Number:

LRA

**L. ACKNOWLEDGEMENT OF RECEIPT OF REMEDIATION WASTE AT RECEIVING FACILITY OR TEMPORARY STORAGE LOCATION:**

Receiving Facility/Temporary Location Representative (print): DAVID M. PETER Title: Gen. Mng. Env. Serv  
Signature: David M. Peter Date: 8/8/97

**M. ACKNOWLEDGEMENT OF SHIPMENT AND RECEIPT OF REMEDIATION WASTE BY PERSON CONDUCTING RESPONSE ACTION ASSOCIATED WITH THIS BILL OF LADING:**

I certify under penalties of law that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this certification, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained herein is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

Signature: James Picone (Agent for Burlington Public Schools) Date: 8/8/97  
Name of Person (print): James Picone

SWAMPSCOTT QUARRY

BARDON TRIMOUNT

TICKET INQUIRY

LOCATION: 181 SWAMPSCOTT QUARRY  
CUSTOMER / ORDER

CUSTOMER: 8888 CASH SLS/SWAMPSCOTT  
ORDER: 4598 37 NON-TAXABLE

08/07/97  
1 Load  
8.78 TON

TICKET	TIME	ORDER	PRODUCT	HAULER	TRUCK	QTY
483348	12:33	4598	RECY SOIL OIL	FDB TRUCKE	00037	8.78 TON

F1Help

F3Search

ESC to exit

F7Clear

APPENDIX C  
LIMITATIONS

LIMITATIONS

- 1.) The work described in this report was carried out in accordance with the terms and conditions in our contract. The observations described in this report were made under the conditions stated within this report. The conclusions stated in this report are based solely on the visual, historical and/or physical information collected by GMRC. Unless specifically stated in this report, no subsurface excavations were conducted at the Site in conjunction with this site assessment, and no sampling and analysis of ground water or subsurface materials were conducted. The conclusions presented in this report are based solely upon the services described, and not on scientific tasks or procedures beyond the scope of described services or the time and budgetary constraints imposed by the Client.
- 2.) In preparing this report, GMRC has relied on certain information provided by State and local officials and other referenced parties, and on information contained in the files of federal, state and/or local agencies available to GMRC at the time of the assessment as stated in the report. Although there may have been some degree of duplication in the information provided by these various sources, GMRC did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of this investigation.
- 3.) The purpose of this report was to assess the physical characteristics of the Site with respect to the presence in the environment of hazardous materials or oil, as defined in Massachusetts General Laws Chapter 21E. No specific attempt was made to check compliance of present or past owners or operators of the Site with federal, state or local laws or regulations, environmental or otherwise.
- 4.) Observations were made of the Site and of structures on the Site as indicated in the report. GMRC renders no opinion as to the presence of hazardous materials or oil in any portion of the Site or structure where access was unavailable or limited. In addition, GMRC renders no opinion as to the presence of hazardous material or oil, or to the presence of indirect evidence relating to hazardous material or oil, where direct observation of the interior walls, floor or ceiling of a structure on the Site was obstructed.
- 5.) The information contained in this report is based upon visual observations, record examination, and queries of state/local officials. GMRC did not perform testing or analyses to determine the presence or concentration of asbestos, radon, lead, polychlorinated biphenyls (PCBs), or of dust or air quality at the Site unless specifically stated otherwise in the report. Due to time and/or budgetary constraints, the conclusions contained in this report have not been confirmed through any program of subsurface exploration unless specifically stated otherwise in this report.
- 6.) The conclusions set forth in this report are based on generally accepted technical practices. In performing the services, GMRC shall use that degree of care and skill ordinarily exercised by environmental consultants or engineers performing similar services in the same or similar locality. The standard of care shall be determined solely at the time the services are rendered and not according to standards used at a later date. The services shall be rendered without any other warranty, expressed or implied, including, without limitation the warranty of merchantability and the warrant of fitness for a particular purpose.



GULF OF MAINE RESEARCH CENTER INC.

- 7.) Any water level readings made in test pits, test borings, and/or monitoring wells were made at the times and under the conditions stated in this report. However, it must be noted that fluctuations in the groundwater table may occur due to variations in rainfall and other factors different from those prevailing at the time measurements were made.
- 8.) Variations in the types and concentrations of contaminants and variations in contaminant flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time, and other factors.
- 9.) Quantitative laboratory analyses were not performed as part of the investigation unless specifically stated otherwise in this report. The conclusions and recommendations contained in this report are based in part, where stated, upon various types of chemical data and are contingent upon their validity. These data have been reviewed and interpretations made by GMRC in this report. Where such analyses have been conducted by an independent Massachusetts Certified laboratory, GMRC has relied upon the data provided. As indicated in this report, some data may be preliminary "screening" level data, and should be confirmed with quantitative analyses if more specific information is necessary.
- 10.) The conclusions and recommendations contained in this report are based in part, where stated upon chemical analyses which have been performed for specific constituents during the course of this investigation. However, it should be noted that additional chemical constituents not analyzed during the current or previous investigations may be present in soil and/or ground water at the Site. Conclusions which rely on analytical data obtained at the Site are based on the detection of specific compounds at detected concentrations noted in this report. This information does not preclude the possibility that additional compounds and/or concentrations may be present at the Site.
- 11.) Additional chemical data or other information concerning this Site or neighboring properties which may become available in the future, should be made available to GMRC for review. GMRC will evaluate such information and, on the basis of this evaluation, the conclusions and recommendations presented in this report may be modified accordingly.
- 12.) The conclusions and recommendations contained in this report are based in part, where noted, upon data obtained from a limited number of soil and/or water samples obtained from widely spaced subsurface explorations. The nature and extent of variations between these explorations may not become evident until further exploration. If variations or other latent conditions then appear evident, it will be necessary to reevaluate the conclusions and recommendations of this report.
- 13.) This report is intended for use by the party (parties) identified on the title page and with whom GMRC is under contractual agreement. Any reproduction, distribution, sale or transfer of this report or any part of the report is unauthorized unless prior written consent is granted by GMRC. However, GMRC acknowledges and agrees that the report may be conveyed to the Buyer, lender, and Title insurer associated with the proximate sale of the Site by our Client.

GMRC has no present or contemplated interest in the property examined, and neither the employment to conduct this environmental assessment, nor the compensation of this environmental assessment, are contingent upon the outcome of the environmental assessment. Furthermore, GMRC has no personal interest or bias with respect to the subject matter of this investigation.

SIX-MONTH (6) REINSPECTION  
HAZARD ASSESSMENT SUMMARY SHEET

FOX HILL ELEMENTARY

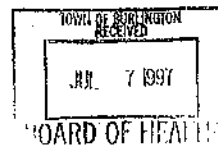
Date: June, 1997

Inspector: Patrick O'Brien

Location of Areas:

- 1. Boiler Room - T-01
- 2. Boiler Room - T-02
- 3. Boiler Room - T-03
- 4. Behind walls & ceilings - T-04
- 5. Electrical Room - T-05
- 6. Boiler Room - M-01
- 7. Outside/Inside Building - M-02
- 8. Classrooms, Storage Areas, Offices - M-03
- 9. Cafeteria, Hallways - M-03
- 9. Cafeteria Walls - S-01

- 1. Did you perform the last visual inspection in this area ?  
 yes       no
  - 2. Are you familiar with the locations and prior condition of ACBM in the area which this inspection covers ?  
 yes       no
  - 3. Have you received training in the purpose of this inspection, the health hazards associated with asbestos exposure, and work practices to protect yourself against exposure to airborne asbestos including use of purifying respirators and the use of the form?  
 yes       no
- If you are not familiar with the locations of ACBM, safe work practices or the use of this form, contact the Office of Building and Grounds and do not continue.
- 4. Is the proper Notice to Employees Form in place?  
 yes       no
  - 5. Evaluate the physical condition of ACBM in this area. Evaluate each of the following criteria by checking the appropriate statement.
    - a. Material Condition       No Damage
    - Moderate (small area)
    - Severe



REINSPECTION SUMMARY SHEET - FOX HILL ELEMENTARY

Fill out every six months and insert in Appendix of Management Plan

HOMOGENOUS NUMBER	DESCRIPTION OF ACBM	AREA INSPECTED	CHANGE IN CONDITION (IF ANY)
T-01	Hot Water Tank	Boiler Room	No Change
T-02	Pipe Fittings	Boiler Room	No Change
T-03	Boiler Breaching Insulation @ pipe	Boiler Room	No Change
T-04	Elbow fittings insulation	Behind walls & ceilings	N/A
T-05	Emerg. Gener. Exhaust	Electrical Room	No Change
M-01	Boiler Gasket	Inside Boiler doors	No Change
M-02	Transite Siding Panels	Outside/inside Bldg.	No Change
M-03	12" x 12" Floor Tiles	Classrooms, Storage Areas, Offices, Halls Cafeteria	No Change
S-01	Hard Plaster	Cafeteria Walls	No Change
HO Area		Comments	

Inspectors Name: Patrick O'Brien

Inspectors Signature: Patrick O'Brien

Date: 6-30-97 LEA: \_\_\_\_\_

# Burlington Public Schools

123 CAMBRIDGE STREET  
BURLINGTON, MA 01803  
(617) 270-1814

Craig F. Robinson  
Director, Buildings & Grounds

To: Todd Dresser, Environmental Engineer

From: Craig Robinson, Director  
Buildings & Grounds *CR*

Date: May 5, 1997

Re: Manifest

Enclosed please find the Hazardous Waste Manifest for the Fox Hill oil tank removal.



COMMONWEALTH OF MASSACHUSETTS  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF HAZARDOUS MATERIALS  
One Winter Street  
Boston, Massachusetts 02108

FOR IN-STATE WASTE  
OR ONLY  
OR  
IN-STATE VSQG HW/VO

Please print or type. (Form designed for use on state (12-pick) transmitter)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator US EPA ID No. MA 00000958655		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address Foxhill School Westwood St. Burlington, MA 01903		4. Generator's Phone No. 781-272-4827		5. State of Generator MA		6. EPA ID No. of Generator K11463	
6. Transporter 1 Company Name Bill Murphy Waste Oil, Inc.		7. Transporter 2 Company Name		8. US EPA ID Number MA 00000958655		9. State of Transporter MA	
10. Designated Facility Name and Site Address Cyn Oil Corp./1771 Washington St./Stoughton, MA		11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) Petroleum Oil Combustible Liquid NA 1270 PG III (Waste Oil)		12. Containers No. Type 500 GL		13. Total Quantity 500 GL	
14. Additional Descriptions for Materials Listed Above (Include physical state and hazard codes) Waste Oil		15. Special Handling Instructions and Additional Information MA98 - DOT EMERGENCY GUIDE #128 / EMERGENCY PHONE: (617) 933-4928		16. Discrepancy Indication Space		17. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 18.	
17. Transporter 1 Acknowledgment (Receipt of Materials) Printed/Typed Name: <i>Scott DeCasperis</i> Signature: <i>Scott DeCasperis</i> Date: <i>04/28/97</i>		18. Transporter 2 Acknowledgment (Receipt of Materials) Printed/Typed Name: <i>Bruce Conway</i> Signature: <i>Bruce Conway</i> Date: <i>04/28/97</i>		19. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 18. Printed/Typed Name: <i>Alan Sawyer</i> Signature: <i>Alan Sawyer</i> Date: <i>04/28/97</i>			

In case of emergency or spill, immediately call the National Response Center (800) 424-6802.

COPY 1: FACILITY MAILLS TO GENERATOR



COMMONWEALTH OF MASSACHUSETTS  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF HAZARDOUS MATERIALS  
One Winter Street  
Boston, Massachusetts 02108

FOR IN-STATE WASTE  
OR ONLY  
OR  
IN-STATE VSQG HW/VO

Please print or type. (Form designed for use on state (12-pick) transmitter)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator US EPA ID No. MA 00000958655		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address Foxhill School Westwood St. Burlington, MA 01903		4. Generator's Phone No. 781-272-4827		5. State of Generator MA		6. EPA ID No. of Generator K11463	
6. Transporter 1 Company Name Bill Murphy Waste Oil, Inc.		7. Transporter 2 Company Name		8. US EPA ID Number MA 00000958655		9. State of Transporter MA	
10. Designated Facility Name and Site Address Cyn Oil Corp./1771 Washington St./Stoughton, MA		11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) Petroleum Oil Combustible Liquid NA 1270 PG III (Waste Oil)		12. Containers No. Type 500 GL		13. Total Quantity 500 GL	
14. Additional Descriptions for Materials Listed Above (Include physical state and hazard codes)		15. Special Handling Instructions and Additional Information MA98 - DOT EMERGENCY GUIDE #128 / EMERGENCY PHONE: (617) 933-4928		16. Discrepancy Indication Space		17. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 18.	
17. Transporter 1 Acknowledgment (Receipt of Materials) Printed/Typed Name: <i>Scott DeCasperis</i> Signature: <i>Scott DeCasperis</i> Date: <i>04/28/97</i>		18. Transporter 2 Acknowledgment (Receipt of Materials) Printed/Typed Name: <i>Bruce Conway</i> Signature: <i>Bruce Conway</i> Date: <i>04/28/97</i>		19. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 18. Printed/Typed Name: <i>Alan Sawyer</i> Signature: <i>Alan Sawyer</i> Date: <i>04/28/97</i>			

In case of emergency or spill, immediately call the National Response Center (800) 424-6802.

COPY 4: GENERATOR RETAINS





The Commonwealth of Massachusetts  
Department of Public Safety  
Division of Fire Prevention and Regulation

APPLICATION FOR PERMIT, AND PERMIT, FOR REMOVAL AND TRANSPORTATION TO APPROVED TANK YARD

FDID: 17048

Permit: 148-97149

Date: 4/11/89

Bourne  
City, Town or District

APPROVED

Subject to Final Insp.

Burlington Fire Prevention Bureau

DIG. SAFE NUMBER

9715037

start date: 4/1/89

Fee Paid: \$ N/C

By: [Signature]  
Date: 4/11/89

In accordance with the provisions of Chapter 148, Sec. 18A, M.G.A.

527 CMR 9.00 application is hereby made by [Signature]

Street Address & City or Town: 36 Doyle Ave. Bourne, MA

Signature of applicant: [Signature]

Applicant's name printed: Richard W. Berris, Sr.

For permission to remove and transport one underground storage tank from

owner: Fox Hill School Street Address: [Address]

Firm transporting waste: Mary's Waste Transfer Station

Hazardous waste manifest: EPA 100-2003

Approved tank yard: John C. Lombardi, Inc.

Tank yard Address: 207 Main St. Bourne, MA

Type of inert gas: None III tank: None

Tank capacity: 2000 gallons net stored: 2000

Date of issue: 4/11/89

Signature/Title of official granting permit: [Signature]

KEEP ORIGINAL AS APPLICATION IS ISSUED. DUPLICATE AS PERMIT.

RECEIPT OF DISPOSAL OF UNDERGROUND STEEL STORAGE TANK  
NAME AND ADDRESS: EMILIO TOMBARILLO & SONS  
OF: 307 MARSHTON ST. LAWRENCE, MASS. 01841

APPROVED TANK YARD: [Signature]  
APPROVED TANK YARD NO.: 009

Tank Yard Ledger 502 CMR 3.01(4) Number: 9700335

I certify under penalty of law I have personally examined the underground steel storage tank delivered to this "approved tank yard" by firm, corporation or partnership. I will forward (encl.) and accept same in conformance with Massachusetts Fire Prevention and Regulation 502 CMR 3.00 Provisions for Approving Underground Steel Storage Tank Dismantling Yards. A valid permit was issued by LOCAL Head of Fire Department FDID # 17048 to transport this tank to this yard.

Name and official title of approved tank yard owner or owner's authorized representative:  
[Signature] TITLE: DATE STORED: 4-23-89

This signed receipt of disposal must be returned to the local head of the fire department FDID # 17048 pursuant to 502 CMR 3.00. (EACH TANK MUST HAVE A RECEIPT OF DISPOSAL)

FORM F.P. 291 (rev. 11/85) MASSACHUSETTS STATE FIRE MARSHAL'S OFFICE







Richard J. Bagni  
272-4437



GENERAL CONTRACTORS

SNOW PLOWING & REMOVAL  
TRUCKING • EXCAVATING • SAND • LOAM • WELDING

36 DOUGLAS AVENUE  
BURLINGTON, MA 01803

Date 9/20/89  
Job Location Fox Hill School  
P.O. No. 272-1811

TO: Town of Burlington / Public School Dept.  
123 Cambridge St.  
Burlington, MASS.

Tank Removed From: Fox Hill School  
(No. and Street)  
Burlington  
(City or Town)  
Fire Dept. Permit # \_\_\_\_\_  
Tank Data  
Gallons 500  
Previous Contents # 2 fuel  
Diameter 48 Length 5.5  
Date Received 4/23/87  
Serial # (if available) \_\_\_\_\_  
Tank I.D. # (Form FP-290) \_\_\_\_\_

Owner/Operator to mail revised copy of Notification Form (FP-290, or FP-290R) to: UST Compliance, Office of the State Fire Marshal, 1010 Commonwealth Avenue, Boston, Ma. 02215.

VEHICLE	DATE	HOURS	DESCRIPTION	RATE	AMOUNT
Small Plov			REMOVED 500 GALLON U.S.T. & DISPOSE OF ACCORDY TO LOCAL & STATE FIRE CODES 527.900. REMOVE CONTAMINATED SOIL & DISPOSE AT TRIMMONT BARRON PLANT. INSTALL NEW S/JOB FOR 275 DOUBLE UNIT TANK FOR GENERATOR & PLUMB TANK REMOVE OLD 275 GALLON TANK & DISPOSE OF PROPERLY		
Large Plov					
Dump Truck					
Small Loader					
Large Loader					
Backhoe					
Dozer					
Sanding					

COMMENTS: TOTAL 3150

Thanks  
Bill J. Bagni



COMMONWEALTH OF MASSACHUSETTS  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF HAZARDOUS MATERIALS  
One Winler Street  
Boston, Massachusetts 02108

FOR IN-STATE WASTE  
OIL ONLY  
OR  
IN-STATE VSQG HW/WO

Please print or type. (Form designed for use on silks (12-pts) type writer.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator US EPA ID No. MA 01117022141710		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address Fox Hill School Weywood St. Burt, 1701, MA		4. Generator's Phone No. 713-71-2617		5. Transporter 1 Company Name Bill Murphy Waste Oil, Inc.		6. US EPA ID Number HADDORR58E55		7. State of Origin MA	
7. Transporter 2 Company Name		8. US EPA ID Number		9. Designated Facility Name and Site Address Cyn Oil Corp./1771 Washington St./Stoughton, MA		10. US EPA ID Number		11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) Petroleum Oil Combustible Liquid-NA 1270 - PG III (Waste Oil)	
12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.		16. Special Handling Instructions and Additional Information NA96 - DOT EMERGENCY GUIDE 1128 / EMERGENCY PHONE: (617) 933-4928	
17. Containers		18. Total Quantity		19. Unit Wt/Vol		20. Waste No.		21. Date	

MA-K118643 COPY 1 - GENERATOR RETAINS

FORM F.P. 292  
(rev. 9/90)



The Commonwealth of Massachusetts  
Department of Public Safety  
Division of Fire Prevention and Regulation

APPLICATION FOR PERMIT, AND PERMIT, FOR REMOVAL, AND TRANSPORTATION TO APPROVED TANK YARD

FDID: 17048 Permit: 17048-97-144 Date: 4/23/97

City, Town or District: Burlington

APPROVED BY: [Signature]

Subject To Final Insp. Burlington Fire Prevention Bureau

Fee Paid: \$ N/C

DIG SAFE NUMBER: 97150774

Start Date: 4/23/97

In accordance with the provisions of Chapter 148, Sec. 13A, M.G.A. 527 CMR 9.00 application is hereby made by John Gaudin of Burlington Street Address & City or Town: 26 Dunlap Ave. Burlington, MA

Signature of applicant: Richard J. Borge Sr.

Applicant's name printed: Richard J. Borge Sr.

For permission to remove and transport one underground storage tank from Owner: Fox Hill School Street Address: Weywood St. Burt, MA

Firm transporting waste: Bill Murphy Waste Oil, Inc. State ID: HADDORR58E55

Hazardous waste manifest # MA 01117022141710

Approved tank yard: John C. Tompkins, Inc.

Tank yard Address: 207 Mansfield St. Weymouth, MA

Type of inert gas: CO2

Tank capacity: 500 Gallons

Date of issue: 4/23/97

Signature/Title of DDEC: [Signature]

FACILITY: 01117022141710

SIX-MONTH (6) REINSPECTION  
HAZARD ASSESSMENT SUMMARY SHEET

FOX HILL, ELEMENTARY

Date: December 1996

Inspector: Patrick O'Brien

Location of Areas:

- |    |                                    |        |
|----|------------------------------------|--------|
| 1. | Boiler Room                        | - T-01 |
| 2. | Boiler Room                        | - T-02 |
| 3. | Boiler Room                        | - T-03 |
| 4. | Behind walls & ceilings            | - T-04 |
| 5. | Electrical Room                    | - T-05 |
| 6. | Boiler Room                        | - M-01 |
| 7. | Outside/Inside Building            | - M-02 |
| 8. | Classrooms, Storage Areas, Offices |        |
|    | Cafeteria, Hallways                | - M-03 |
| 9. | Cafeteria Walls                    | - S-01 |

1. Did you perform the last visual inspection in this area ?

yes  no

2. Are you familiar with the locations and prior condition of ACBM in the area which this inspection covers ?

yes  no

3. Have you received training in the purpose of this inspection, the health hazards associated with asbestos exposure, and work practices to protect yourself against exposure to airborne asbestos including use of purifying respirators and the use of the form?

yes  no

If you are not familiar with the locations of ACBM, safe work practices or the use of this form, contact the Office of Building and Grounds and do not continue.

4. Is the proper Notice to Employees Form in place?

yes  no

5. Evaluate the physical condition of ACBM in this area. Evaluate each of the following criteria by checking the appropriate statement.

- a. Material Condition
- No Damage  
 Moderate (small area)  
 Severe



RECEIPT OF DISPOSAL OF UNDERGROUND STEEL STORAGE TANK  
NAME AND ADDRESS

OF  
JOHN C. TOMBARIELLO & SONS  
202 WASHINGTON ST.  
LAWRENCE, MASS. 01841

APPROVED TANK YARD

APPROVED TANK YARD NO. 009

Tank Yard Ledger 502 CHR 3.03(4) Number: 9700335

I certify under penalty of law I have personally examined the underground steel storage tank delivered to this "approved tank yard" by firm, corporation or partnership, John Ireland Corp. and accepted same in accordance with Massachusetts Fire Prevention Regulation 502 CHR 3.00 Provisions for Approving Underground Steel Storage Tank dismantling yards. A valid permit was issued by LOCAL Head of Fire Department FID#1 D. J. D. P. to transport this tank on this yard.

Name and official title of approved tank yard owner or owners authorized representative:

John C. Tombariello  
SIGNATURE

CPW  
TITLE

4-23-97  
DATE SIGNED

This signed receipt of disposal must be returned to the local head of the fire department FID# 1.1.0.19 pursuant to 502 CHR 3.00. TANK TANK MUST HAVE A RECEIPT OF DISPOSAL

FORM F.P. 291 (rev. 11/95) (OVER)

MASSACHUSETTS STATE FIRE MARSHAL'S OFFICE





REINSPECTION SUMMARY SHEET - FOX HILL ELEMENTARY

Fill out every six months and insert in Appendix of Management Plan

HOMOGENOUS NUMBER	DESCRIPTION OF ACBM	AREA INSPECTED	CHANGE IN CONDITION (IF ANY)
T-01	Hot Water Tank	Boiler Room	No Change
T-02	Pipe Fittings	Boiler Room	No Change
T-03	Boiler Breaching Insulation @ pipe	Boiler Room	No Change
T-04	Elbow fittings insulation	Behind walls & ceilings	N/A
T-05	Emerg. Gener. Exhaust	Electrical Room	No Change
M-01	Boiler Gasket	Inside Boiler doors	No Change
M-02	Transite Siding Panels	Outside/Inside Bldg.	No Change
M-03	12" x 12" Floor Tiles	Classrooms, Storage Areas, Offices, Halls Cafeteria	No Change
S-01	Hard Plaster	Cafeteria Walls	No Change
HO Area		Comments	

Inspectors Name: Patrick O'Brien

Inspectors Signature: Patrick O'Brien

Date: 12-31-96 LEA: \_\_\_\_\_

SIX-MONTH (6) REINSPECTION HAZARD ASSESSMENT SUMMARY SHEET

FOX HILL ELEMENTARY

Date: June 1, 1996

Inspector: Patrick O'Brien

Location of Areas:

- 1. Boiler Room - T-01
- 2. Boiler Room - T-02
- 3. Boiler Room - T-03
- 4. Behind walls & ceilings - T-04
- 5. Electrical Room - T-05
- 6. Boiler Room - M-01
- 7. Outside/Inside Building - M-02
- 8. Classrooms, Storage Areas, Offices Cafeteria, Hallways - M-03
- 9. Cafeteria Walls - S-01

1. Did you perform the last visual inspection in this area ?  
 yes  no
  2. Are you familiar with the locations and prior condition of ACBM in the area which this inspection covers ?  
 yes  no
  3. Have you received training in the purpose of this inspection, the health hazards associated with asbestos exposure, and work practices to protect yourself against exposure to airborne asbestos including use of purifying respirators and the use of the form?  
 yes  no
- If you are not familiar with the locations of ACBM, safe work practices or the use of this form, contact the Office of Building and Grounds and do not continue.
4. Is the proper Notice to Employees Form in place?  
 yes  no
  5. Evaluate the physical condition of ACBM in this area. Evaluate each of the following criteria by checking the appropriate statement.
    - a. Material Condition  No Damage  
 Moderate (small area)  
 Severe

- b. Water Damage  None  
 Minor  
 Moderate/Severe
- c. Exposed Surface Area  None  
 10% or less  
 Greater than 10%
- d. Accessibility  Not Accessible  
 Rarely Accessed  
 Accessible
- e. Activity/Movement  None/Low  
 Moderate  
 High
- f. Air Plenum/Direct Air Stream  Present  
 Not Present
- g. Friability  Low  
 Moderate  
 High
6. Has the condition of any ACM within the area of this inspection deteriorated or changed since the last inspection?  
 yes  no
- If yes, describe: Small section on hot water tank - repairs needed.  
 Location: Boiler Room over water discharge. Extent and Probable Cause: age, water leakage
7. Is there any damaged ACM present that was reported previously:-NO-  
 Location: Extent and Probable Cause:
8. Is it possible or probable that unprotected persons may be exposed to asbestos due to the conditions described in items 4 - 7 above?  
 yes  no

If yes, verbally notify the Asbestos Coordinator (Building and Grounds Office) of the conditions. Check here if you verbally notified someone of the potentially dangerous conditions and give their name and the date and time of notifications:

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

9. Check the appropriate spaces below (check all that apply):

- No change in conditions  
 Conditions have deteriorated  
 Personnel may have been exposed to asbestos  
 Repair or removal may be required  
 Recommend IMMEDIATE investigation  
 Minor repairs are necessary  
 Posting missing

Inspector's Signature: Patrick O'Brien Date: 6-14-96

FOR USE BY ASBESTOS COORDINATOR ONLY:

Received ACM Condition Form William H. Koutoulis 5/1/96  
 (Date and Time)

ACTION:

- None Required  
 In-House Clean-Up \_\_\_\_\_  
 (Date and Time)  
 Evacuation of Area  
 Outside Contractor Clean-Up. Completed \_\_\_\_\_  
 (Date and Time)  
 Contacted: \_\_\_\_\_  
 Visited Site: \_\_\_\_\_  
 Completed Recommendation: \_\_\_\_\_  
 Action Required: \_\_\_\_\_  
 Other: \_\_\_\_\_



REINSPECTION SUMMARY SHEET - FOX HILL ELEMENTARY

Fill out every six months and insert in Appendix of Management Plan

HOMOGENEOUS NUMBER	DESCRIPTION OF ACBM	AREA INSPECTED	CHANGE IN CONDITION (IF ANY)
T-01	Hot Water Tank	Boiler Room	CHANGE
T-02	Pipe Fittings	Boiler Room	No Change
T-03	Boiler Breaching Insulation @ pipe	Boiler Room	No Change
T-04	Elbow fittings insulation	Behind walls & ceilings	N/A
T-05	Emerg. Gener. Exhaust	Electrical Room	No Change
M-01	Boiler Gasket	Inside Boiler doors	No Change
M-02	Transite Siding Panels	Outside/inside Bldg.	No Change
M-03	12" x 12" Floor Tiles	Classrooms, Storage Areas, Offices, Halls Cafeteria	No Change
S-01	Hard Plaster	Cafeteria Walls	No Change

IIO Area	Comments
Boiler Room	Small section fell off pipe over water discharge will repair when school shuts down, pipe cold, small amount of material moved to BHS Hazard Room to be removed from site on June 17.

Inspectors Name: Patrick O'Brien

Inspectors Signature: Patrick O'Brien

Date: 6-14-96 LEA: William H. Koutoul



TOWN OF BURLINGTON  
BOARD OF HEALTH  
BURLINGTON, MASSACHUSETTS 01803  
TOWN HALL 270-1655

Inspection of Oil Release Date Feb 29, 1996 Time 1:00 PM  
 Name Fox Hill School Address Fox Hill Rd  
 Owner Town of Burlington Tel. No. \_\_\_\_\_  
 Type of Inspection Emergency Response Inspector Todd H. Dresser

(\* Remarks and Violations are listed below:

I responded to the release of approximately 5-7 gallons of heating oil at Fox Hill School. The spill occurred as a result of overflowing on oil storage tank. The spill occurred near the rear loading dock. Most of the oil spilled on the paved parking area. I instructed Bill Koutoul (School Dept) and Dave Gillingham (Pest Maintenance) to place sand and speed-dry at the liquid then to collect and containerize in drums. They used asbestos next all visibly stained soil and asphalt were to be collected and containerized prior to off site disposal.

The spill does not appear to pose a health risk at this time.

Report Received by: \_\_\_\_\_

SIX-MONTH (6) REINSPECTION  
HAZARD ASSESSMENT SUMMARY SHEET

page 2 of 3 reinspection form

FOX HILL ELEMENTARY

Date: December 29, 1995

Inspector: Patrick O'Drien

Location of Areas:

- |    |                                    |        |
|----|------------------------------------|--------|
| 1. | Boiler Room                        | - T-01 |
| 2. | Boiler Room                        | - T-02 |
| 3. | Boiler Room                        | - T-03 |
| 4. | Behind walls & ceilings            | - T-04 |
| 5. | Electrical Room                    | - T-05 |
| 6. | Boiler Room                        | - M-01 |
| 7. | Outside/inside Building            | - M-02 |
| 8. | Classrooms, Storage Areas, Offices |        |
|    | Cafeteria, Hallways                | - M-03 |
| 9. | Cafeteria Walls                    | - S-01 |

1. Did you perform the last visual inspection in this area ?

yes  no

2. Are you familiar with the locations and prior condition of ACBM in the area which this inspection covers ?

yes  no

3. Have you received training in the purpose of this inspection, the health hazards associated with asbestos exposure, and work practices to protect yourself against exposure to airborne asbestos including use of purifying respirators and the use of the form?

yes  no

If you are not familiar with the locations of ACBM, safe work practices or the use of this form, contact the Office of Building and Grounds and do not continue.

4. Is the proper Notice to Employees Form in place?

yes  no

5. Evaluate the physical condition of ACBM in this area. Evaluate each of the following criteria by checking the appropriate statement.

- a. Material Condition  No Damage  
 Moderate (small area)  
 Severe

b. Water Damage  None  
 Minor  
 Moderate/Severe

c. Exposed Surfaced Area  None  
 10% or less  
 Greater than 10%

d. Accessibility  Not Accessible  
 Rarely Accessed  
 Accessible

e. Activity/Movement  None/Low  
 Moderate  
 High

f. Air Plenum/Direct Air Stream  Present  
 Not Present

g. Friability  Low  
 Moderate  
 High

6. Has the condition of any ACBM within the area of this inspection deteriorated or changed since the last inspection?

yes  no

If yes, describe:

Location: Extent and Probable Cause:

Boiler Room/HW Tank Water Leak

7. Is there any damaged ACBM present that was reported previously: -NO-

Location: Extent and Probable Cause:

8. Is it possible or probable that unprotected persons may be exposed to asbestos due to the conditions described in items 4 - 7 above?

yes  no

If yes, verbally notify the Asbestos Coordinator (Building and Grounds Office) of the conditions. Check here if you verbally notified someone of the potentially dangerous conditions and give their name and the date and time of notifications:

Name: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_

9. Check the appropriate spaces below (check all that apply):

- \_\_\_\_\_ No change in conditions
- \_\_\_\_\_ Conditions have deteriorated
- \_\_\_\_\_ Personnel may have been exposed to asbestos
- \_\_\_\_\_ Repair or removable may be required
- \_\_\_\_\_ Recommend IMMEDIATE investigation
- \_\_\_\_\_ Minor repairs are necessary \*SEE SUMMARY SHEET\*
- \_\_\_\_\_ Posting missing

Inspector's Signature: Patrick O'Brien Date: 3-4-96

FOR USE BY ASBESTOS COORDINATOR ONLY:

Received ABCM Condition Form \_\_\_\_\_  
 (Date and Time)

ACTION:

- \_\_\_\_\_ None Required
- \_\_\_\_\_ In-House Clean-Up \_\_\_\_\_  
 (Date and Time)
- \_\_\_\_\_ Evacuation of Area
- \_\_\_\_\_ Outside Contractor Clean-Up. Completed \_\_\_\_\_  
 (Date and Time)
- Contacted: \_\_\_\_\_
- Visited Site: \_\_\_\_\_
- Completed Recommendation: .. \_\_\_\_\_
- Action Required: \_\_\_\_\_
- Other: \_\_\_\_\_

REINSPECTION SUMMARY SHEET - FOX HILL ELEMENTARY

Fill out every six months and insert in Appendix of Management Plan

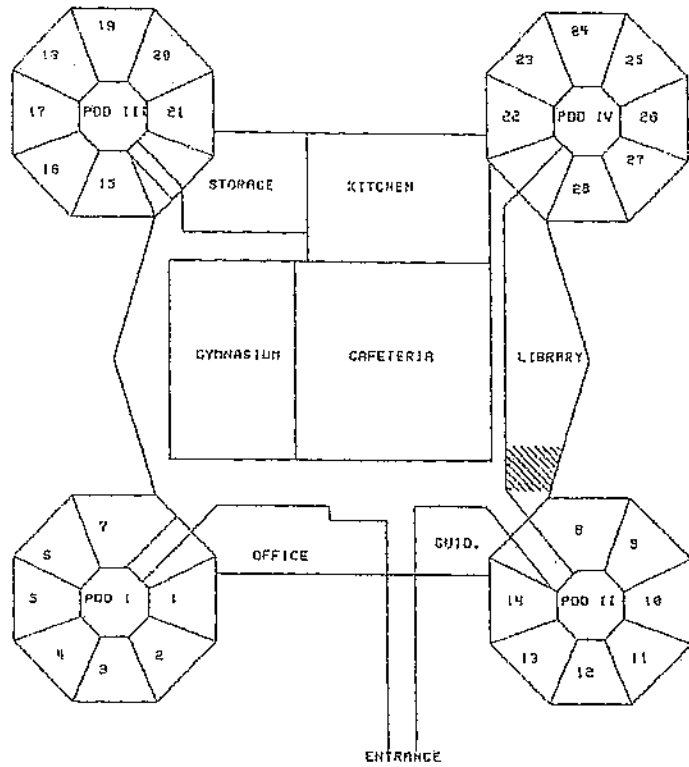
HOMOGENEOUS NUMBER	DESCRIPTION OF ABCM	AREA INSPECTED	CHANGE IN CONDITION (IF ANY)
T-01	Hot Water Tank	Boiler Room	*CHANGE*
T-02	Pipe fittings	Boiler Room	No Change
T-03	Boiler Breaching insulation @ pipe	Boiler Room	No Change
T-04	Elbow fittings insulation	Behind walls & ceilings	N/A
T-05	Emerg. Gener. Exhaust	Electrical Room	No Change
M-01	Boiler Gasket	Inside Boiler doors	No Change
M-02	Transite Siding Panels	Outside/inside Bldg.	No Change
M-03	12" x 12" Floor Tiles	Classrooms, Storage Areas, Offices, Halls Cafeteria	No Change
S-01	Hard Plaster	Cafeteria Walls	No Change

IIO Area	Comments
T-01	Water leak caused some of the hot water tank insulation to fall. DECTAM, Andover was called enclosed Asbestos Abatement Document - 8/22/95 8:00A.M. to 4:00 P.M.

Inspector's Name: Patrick O'Brien  
 Inspector's Signature: Patrick O'Brien  
 Date: MARCH 9, 1996 LEA: William H. Kautz



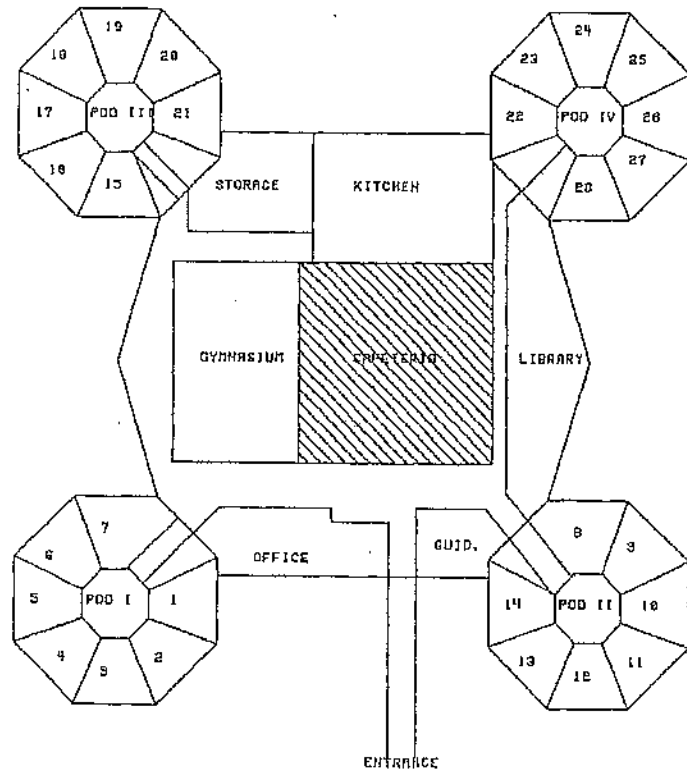
FOX HILL SCHOOL FLOOR PLAN  
HOMOGENEOUS AREA T-05



NOTE: DRAWING NOT TO SCALE

SHADED AREA ACM- Asbestos Containing Building Material, includes surfacing ACM, thermal system insulation ACM, or miscellaneous ACM that is found in or on interior structural members or other parts of the building.

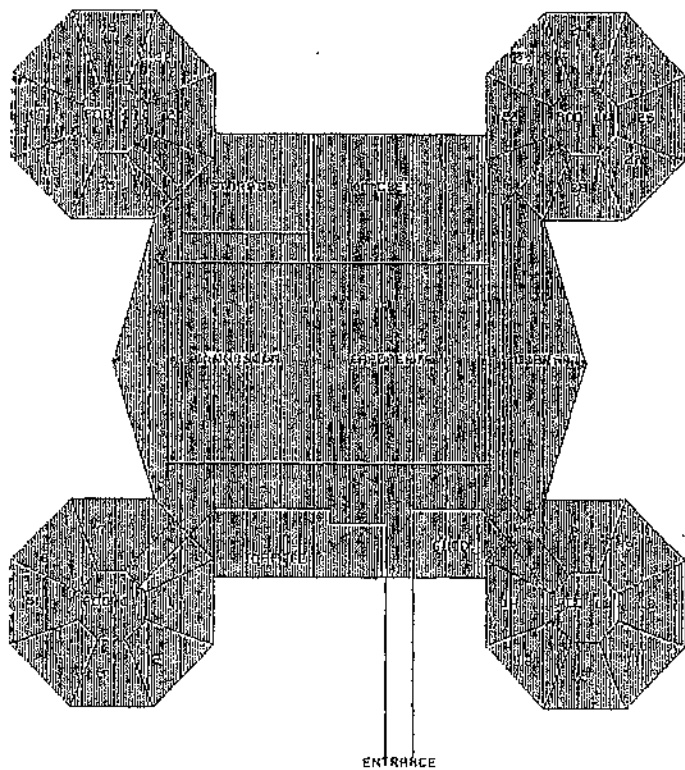
FOX HILL SCHOOL FLOOR PLAN  
HOMOGENEOUS AREA S-01



NOTE: DRAWING NOT TO SCALE

SHADED AREA ACM- Asbestos Containing Building Material, includes surfacing ACM, thermal system insulation ACM, or miscellaneous ACM that is found in or on interior structural members or other parts of the building.

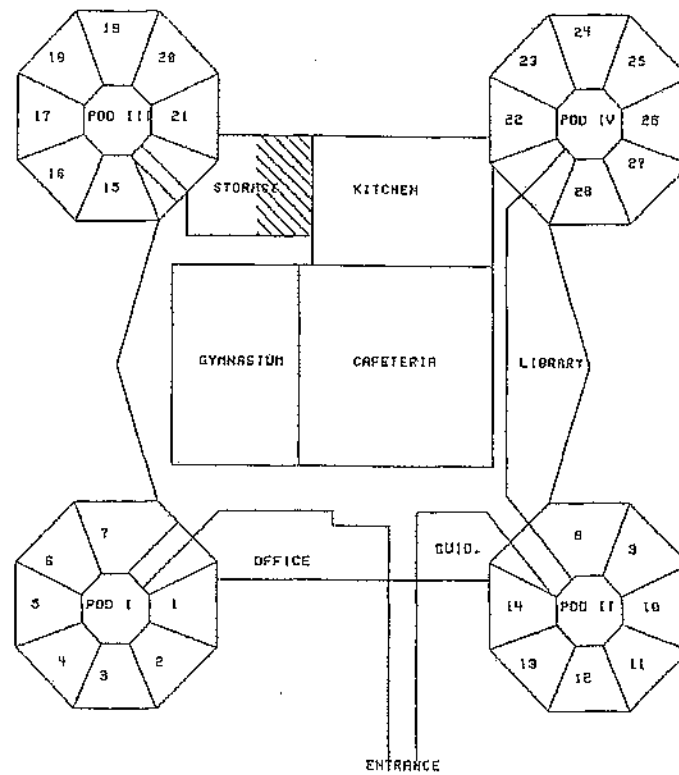
FOX HILL SCHOOL FLOOR PLAN  
HOMOGENEOUS AREA T-04



NOTE: DRAWING NOT TO SCALE

SHADED AREA ACBM- Asbestos Containing Building Material, includes surfacing ACM, thermal system insulation ACM, or miscellaneous ACM that is found in or on interior structural members or other parts of the building.

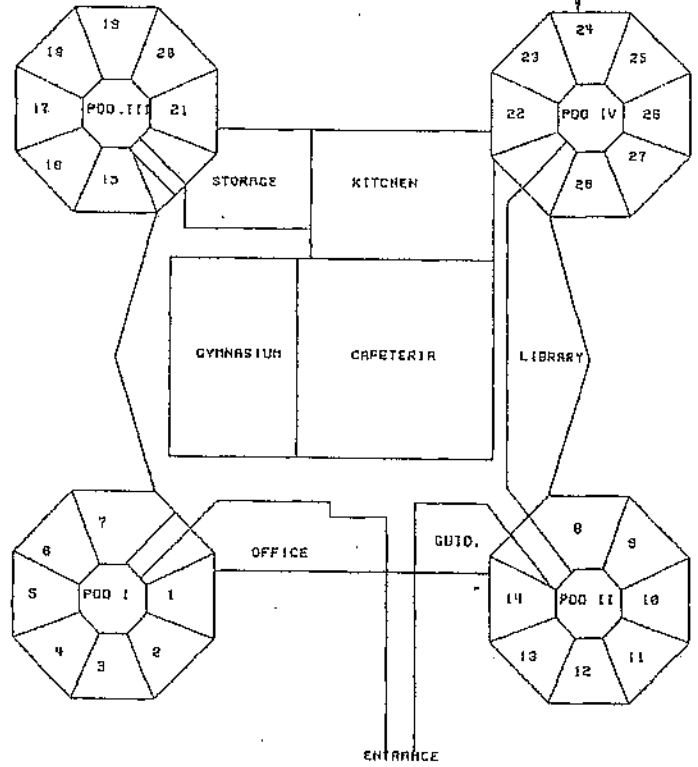
FOX HILL SCHOOL FLOOR PLAN  
HOMOGENEOUS AREAS: M-01, T-01, T-02  
T-03



NOTE: DRAWING NOT TO SCALE

SHADED AREA ACBM- Asbestos Containing Building Material, includes surfacing ACM, thermal system insulation ACM, or miscellaneous ACM that is found in or on interior structural members or other parts of the building.

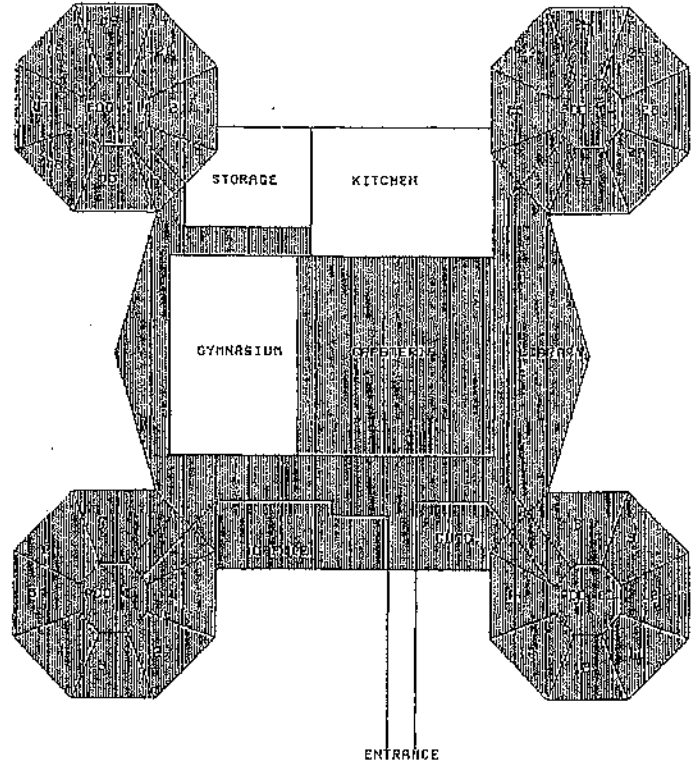
FOX HILL SCHOOL FLOOR PLAN  
 HOMOGENEOUS AREA M-02  
 LOCATED ON PERIMETER OF BUILDING



NOTE: DRAWING NOT TO SCALE

SHADED AREA ACBM- Asbestos Containing Building Material, includes surfacing ACM, thermal system insulation ACM, or miscellaneous ACM that is found in or on interior structural members or other parts of the building.

FOX HILL SCHOOL FLOOR PLAN  
 HOMOGENEOUS AREA M-03



NOTE: DRAWING NOT TO SCALE

SHADED AREA ACBM- Asbestos Containing Building Material, includes surfacing ACM, thermal system insulation ACM, or miscellaneous ACM that is found in or on interior structural members or other parts of the building.



SIX-MONTH (6) REINSPECTION  
HAZARD ASSESSMENT SUMMARY SHEET

Fill out three (3) sheets for each ACBM area

SCHOOL

FOX HILL ELEMENTARY

Date: \_\_\_\_\_ page 1 of 3 Time: \_\_\_\_\_ Inspector: \_\_\_\_\_

Location of Area: \_\_\_\_\_

1. Did you perform the last visual inspection in this area ?  
 yes  no
2. Are you familiar with the locations and prior condition of ACBM in the area which this inspection covers ?  
 yes  no
3. Have you received training in the purpose of this inspection, the health hazards associated with asbestos exposure, and work practices to protect yourself against exposure to airborne asbestos including use of purifying respirators and the use of the form?  
 yes  no

If you are not familiar with the locations of ACBM, safe work practices or the use of this form, contact the Office of Building and Grounds and do not continue.

4. Is the proper Notice to Employees Form in place?  
 yes  no
5. Evaluate the physical condition of ACBM in this area. Evaluate each of the following criteria by checking the appropriate statement.
- a. Material Condition  No Damage  
 Moderate (small area)  
 Severe
- b. Water Damage  None  
 Minor  
 Moderate/Severe
- c. Exposed Surfaced Area  None  
 10% or less  
 Greater than 10%

page 2 of 3 reinspection form

- d. Accessibility  Not Accessible  
 Rarely Accessed  
 Accessible
- e. Activity/Movement  None/Low  
 Moderate  
 High
- f. Air Plenum/Direct Air Stream  Present  
 Not Present
- g. Friability  Low  
 Moderate  
 High

6. Has the condition of any ACBM within the area of this inspection deteriorated since the last inspection?

\_\_\_\_\_ yes  no

If yes, describe:

Location: \_\_\_\_\_ Extent and Probable Cause: \_\_\_\_\_

7. Is there any damaged ACBM present that was reported previously: NO-

Location: \_\_\_\_\_ Extent and Probable Cause: \_\_\_\_\_

8. Is it possible or probable that unprotected persons may be exposed to asbestos due to the conditions described in items 4 - 7 above?

\_\_\_\_\_ yes  no

If yes, verbally notify the Asbestos Coordinator (Building and Grounds Office) of the conditions. Check here if you verbally notified someone of the potentially dangerous conditions and give their name and the date and time of notification:

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

9. Check the appropriate spaces below (check all that apply):

- No change in conditions
- Conditions have deteriorated
- Personnel may have been exposed to asbestos
- Repair or removal may be required
- Recommend IMMEDIATE investigation
- Minor repairs are necessary
- Posting missing

Inspector's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

FOR USE BY ASBESTOS COORDINATOR ONLY:

Received ABCM Condition Form \_\_\_\_\_  
(Date and Time)

ACTION:

- None Required
- In-House Clean-Up. \_\_\_\_\_  
(Date and Time)
- Evacuation of Area
- Outside Contractor Clean-Up. Completed \_\_\_\_\_  
(Date and Time)

Contacted: \_\_\_\_\_

Visited Site: \_\_\_\_\_

Completed Recommendation: \_\_\_\_\_

Action Required: \_\_\_\_\_

Other: \_\_\_\_\_

# Burlington Public Schools

Fox Hill Elementary School  
Fox Hill Rd., Burlington, Ma. 01803  
(617) 270-1791

Richard J. Benowitz  
Principal

TO: All Staff **RB**

Re: Compliance with the "Right to Know" law

DATE: October 1995

The elementary principals have met twice with Todd Dresser from the Burlington Board of Health regarding how we can ensure that our schools comply with the "Right to Know" legislation which concerns the use and storage of toxic materials within the school building. The following are guidelines that we have agreed to adhere to:

Cleaning supplies

- All cleaning supplies used by teachers in individual classrooms will be in containers typically bought in stores; no large, industrial-sized cleaners will be allowed in classrooms.
- Cleaning supplies, which are typically toxic if ingested, will only be used by the teacher, or responsible adult in the room, and will be stored out of the reach of the children.

Art & Classroom Supplies

- Teachers will ensure that they are providing children with only non-toxic art and classroom supplies, such as paint, markers, glue, and crayons.
- Permanent markers, rubber cement, and any other material not containing the "non-toxic" seal shall be considered "office products" and will only be used by the teacher (or other adult) when the children are not present in the room. This last precaution is because of the fumes from such materials and their effect on small children.

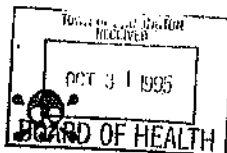
Please make sure that you have inventoried your collection of cleaning and classroom supplies. If you have any materials that the children have been using that do not contain the "non-toxic" seal, please bring them to my attention.

Thank you in advance for your cooperation in this important matter.

POST NEAR DUPLICATING MACHINE



**DANGER!**



METHANOL (METHYL ALCOHOL  $CH_3OH$ )

Duplicating Fluid contains methanol (Methyl Alcohol  $CH_3OH$ ). Methanol constitutes a serious industrial hazard if workers are not adequately supervised and instructed in proper working and handling techniques. You should fully understand the possible dangers of Methanol when handling this product.

## INSURE PROPER VENTILATION

Duplicating machines should always be ventilated to avoid the hazards of explosions or toxicity due to the accumulation of vapors. In order to insure a safe work environment, O.S.H.A. has established a threshold limit value of 200 parts per million (ppm) over an 8 hour period. It is essential that this guideline be followed. **YOUR EMPLOYER IS REQUIRED TO COMPLY WITH O.S.H.A. REGULATIONS AND PROVIDE PROPER VENTILATION FOR DUPLICATING MACHINES.** Please see your supervisor before use of machine if you have concerns about improper ventilation.

## HEALTH HAZARD INFORMATION

### EFFECTS OF OVEREXPOSURE:

Methanol (Methyl Alcohol) is a poisonous, narcotic chemical that can affect the body through inhalation, ingestion, and perhaps prolonged or repeated skin contact. Absorption by inhalation or ingestion is rapid and excretion is much slower than for ethyl alcohol, resulting in delayed effects or compounding of effects by repeated exposure. It is important to be aware that after ingestion or inhalation, initial symptoms may be only that of mild intoxication but may become severe after 12 to 18 hours. Toxic effects are exerted upon the central nervous system, especially the optic nerve. Ingestion can produce **BLINDNESS**; 100 - 250 ml (3 - 8 oz.) can be **FATAL**. Symptoms of overexposure include dizziness, visual impairment, and nausea. Repeated skin contact may cause dermatitis, erythema, scaling, and possibly systemic effects.

**SEE BACK FOR EMERGENCY  
AND FIRST AID PROCEDURES**

## EMERGENCY AND FIRST AID PROCEDURES:

### INHALATION:

Remove victim to fresh air at once. Restore and/or support breathing as required. Keep victim warm and at rest. Get medical attention as soon as possible. Prevent exposure to Methanol for 7 days.

### EYE CONTACT:

Wash eyes immediately with running water, lifting the lower and upper lids occasionally. Get medical attention as soon as possible.

### SKIN CONTACT:

Remove contaminated clothing. Wash affected area with soap and water; apply skin lotions. If skin irritation persists, get medical attention.

REFER TO MATERIAL SAFETY DATA SHEET FOR ADDITIONAL INFORMATION.

### IMPORTANT:

The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation, and verification. Buyer assumes all risk of use, storage, and handling of the product in compliance with applicable federal, state, and local laws and regulations. **SPECTRUM CORPORATION MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, CONCERNING THE ACCURACY OR COMPLETENESS OF THE INFORMATION AND DATA HEREIN.** Spectrum Corporation will not be liable for claims relating to any party's use of or reliance on information and data contained herein regardless of whether it is claimed that the information and data are inaccurate, incomplete, or otherwise misleading.

Spectrum Corporation  
Solmer, TN 38376  
(901) 645-1937



RISOGRAPH RA MASTER

RISO - #N009  
Page 1

## MATERIAL SAFETY DATA SHEET

## SECTION I

Manufacturer's Name : RISO INC.

Emergency Telephone Number : 508-777-7877 Telephone Number For Information : 508-777-7877

Address : 500 Rosewood Drive, Suite 210, Danver, MA 01923

Date Prepared : June 7, 1994 Signature of Preparer : *[Signature]*TRADE NAME AND SYNONYMS  
RISOGRAPH RA MASTER  
(S-568, S-568LA)CHEMICAL NAME AND SYNONYMS  
Thermal stencil consists of Japanese tissue  
laminated with polyester film for duplicator.

## SECTION II - Ingredients/Identity Information

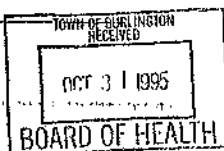
Chemical characterization: ( Specific Identity/Common Name(s) )	CAS No.	
Polyethylene Terephthalate(film)	25038-59-9	Not classified as hazardous chemical
Wax(Stencil Paper)	Unknown	
Acryl Resin(Adhesive)	Unknown	
Silicone(Anti-sticking Agent)	Unknown	

## SECTION III - Physical / Chemical Characteristics

Boiling Point: Not applicable	Specific Gravity( $H_2O = 1$ ) : Not applicable
Vapor Pressure(mm Hg): Not applicable	Melting Point: Not applicable (of PET > 200°C)
Vapor Density(AIR = 1): Not applicable	Evaporation Rate: Not applicable (Nonyl Acetate = 1)
Solubility in Water: None	pH Value: Not applicable
Appearance and Odor: Web shaped, Colored slight yellow, Nearly odorless	
Viscosity: Not applicable	

## SECTION IV - Fire and Explosion Hazard Data

Flash Point: Not applicable	Flammable Limits: LEL Not applicable	UEL
Ignition Temperature: Not available		
Extinguishing Media: Carbon dioxide, Dry chemical, Foam, Water		



RISOGRAPH RA MASTER

RISO - #N009  
Page 2

Special Fire Fighting Procedures: Master will be flammable as paper.

Hazardous Combustion Products: No information is available.

Unusual Fire and Explosion Hazards: None

## SECTION V - Reactivity Data

Stability Unstable \_\_\_\_\_ Conditions to Avoid: \_\_\_\_\_  
Stable X

Incompatibility(Materials to Avoid): Strong oxidizing agents

Hazardous Decomposition or Byproducts: CO on incomplete combustion

Hazardous May Occur \_\_\_\_\_ Conditions to Avoid: \_\_\_\_\_  
Polymerization Will Not Occur X

## SECTION VI - Health Hazard Data

Route(s) of Entry: Inhalation? No Skin? Yes Ingestion? No

Health Hazards(Acute and Chronic): As silicone in anti-sticking agent  
Acute oral toxicity on rats: No information is available, believed to be greater than  
several g/kg.  
Skin Irritation : No information is available, but prolonged or frequent  
contact may cause dermatitis.

Carcinogenicity: HTP? No IARC Monographs? No OSHA Regulated? No

Signs and Symptoms of Exposure: Unknown

Medical conditions Generally Aggravated by Exposure: Unknown

Emergency and First Aid Procedures: Wash with soap and water.

## SECTION VII - Precautions for Safe Handling and Storing

Steps to Be Taken in Case Material is Released or Spoiled: Not applicable

Waste Disposal Method:

Dispose in accordance with State or local law.  
Small quantities : Controlled burning  
Large quantities : Contact local industrial waste disposal company for disposal.

Precautions to Be Taken in Handling and Storing:

To assure that RISOGRAPH RA MASTER will maintain their quality throughout storage life,  
do not expose to the sun, OR keep them in a place where temperatures and/or humidity  
are exceptionally high.

Other Precautions: None

RISOGRAPH RA MASTER

R180 - W909  
Page 3**SECTION III - Control Measures**

Respiratory Protection (Specify Type): Not necessary

Ventilation Local Exhaust: Not normally required. Special: None  
Mechanical (General): Not normally required. Other: None

Protective Gloves: Not normally required. Eye Protection: Not normally required.

Other Protective Clothing or Equipment: Not normally required.

Work/Hygenic Practices: None

Personal Protective Equipment: Not normally required.

Footwear: Not normally required.

**Specimen Label****Specialty Termiticide**

To be applied by or under the direct supervision of commercial applicators responsible for insect control programs

Active ingredient:  
chlorpyrifos: O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) phosphorothioate ..... 42.8%  
Inert ingredients ..... 57.2%  
Contains 4 pounds of chlorpyrifos per gallon.

EPA Reg. No. 62719-47  
EPA Est. 464-MI-1

\*Trademark of DowElanco  
DowElanco • Indianapolis, IN 46268-1189, U.S.A.

**Precautionary Statements**

**Hazards to Humans and Domestic Animals**

**Keep Out of Reach of Children**

**WARNING AVISO:**

Precaucion al usuario: Si usted no lee inglés, no use este producto hasta que la etiqueta lo haya sido explicada ampliamente.

May Be Fatal If Swallowed • Excessive Absorption Through Skin May Be Fatal • Causes substantial but temporary eye injury • May cause skin irritation.

Do not get in eyes, on skin or clothing. Wear eye protection. Avoid breathing vapors and spray mist. Handle concentrate in a ventilated area. Wear protective clothing and chemically resistant gloves when handling. Wash thoroughly with soap and water after handling and before eating or smoking. Remove contaminated clothing and wash before reuse. Keep away from food, feedstuffs and water supplies.

ACTION - TERMITICIDE

**First Aid**

If swallowed: Call a physician or Poison Control Center immediately. Do not induce vomiting. Contains an aromatic petroleum solvent. Do not give anything by mouth to an unconscious person. If on skin: Immediately wash with plenty of soap and water. Get medical attention.

If in eyes: Flush with plenty of water for 15 minutes. Get medical attention.

If inhaled: Remove to fresh air if symptoms of cholinesterase inhibition appear and get medical attention immediately.

Note to physician: Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate significance of exposure (baseline data are useful). Atropine, only by injection, is the preferable antidote. Oximes, such as 2-PAM/protopam, may be therapeutic if used early; however, use only in conjunction with atropine. In case of severe acute poisoning, use antidote immediately after establishing an open airway and respiration.

**Environmental Hazards**

This pesticide is toxic to birds and wildlife, and extremely toxic to fish and aquatic organisms. Do not apply directly to water. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. Cover or incorporate spills. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

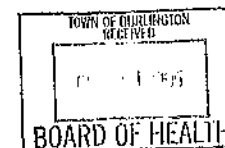
**Physical or Chemical Hazards**

Combustible. Do not use or store near heat or open flame.

Notice: Read the entire label before using. Use only according to label directions. Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" elsewhere on this label.

In case of an emergency endangering health or the environment involving this product, call collect 517-636-4400.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.



Dursban\* TC

## Directions for Use

If it is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Read all Directions for Use carefully before applying.

Do not tank mix this product with products containing dichlorvos (DDVP).

Do not formulate this product into other end-use products.

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Storage:** Store in original container in secured dry storage area. Prevent cross-contamination with other pesticides and fertilizers. Avoid storing above 128°F for extended periods of time. Storage below 49°F may result in formation of crystals. If product crystallizes, store at 55-75°F and shake occasionally to redissolve crystals. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below.

**Pesticide Disposal:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of according to label instructions, contact your state pesticide or environmental control agency, or the hazardous waste representative at the nearest EPA regional office for guidance.

**Container Disposal for Non-Retillable Containers:** Triple rinse (or equivalent) then offer for recycling or reconditioning, or puncture and/or crush rinsed, empty container and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

or

Triple rinse (or equivalent). Then dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Container Disposal for Retillable Containers:** Replace the dry disconnect cap, if applicable, and seal all openings which have been opened during use. Return the empty container to a collection site designated by DowElanco. If the container has been damaged and cannot be returned according to the recommended procedures, contact DowElanco Customer Service Center at 1-800-259-1470 to obtain proper handling instructions.

## Handling Procedures

Wear protective clothing when using or handling this product to help greatly reduce exposure to eyes and skin. As a minimum, eye protection and chemically resistant gloves and footwear, a long-sleeved shirt and long-legged pants or coveralls are recommended. To avoid breathing spray mist during application in confined areas, wear a mask or respirator of a type recommended by NIOSH for filtering spray mists.

## General Information

### Subterranean Termites

Dursban TC Termiticide Concentrate for soil treatment is used to establish a barrier which is lethal to termites. In order to provide an effective barrier between the wood in the structure and termite colonies in the soil, disperse the chemical emulsion so as to avoid untreated gaps in the barrier.

It is important that the service technician be familiar with current control practices including trenching, rodding, subslab injection and low pressure spray applications. These techniques must be correctly employed to prevent or control infestations by subterranean termite species of *Reticulitermes*, *Zootermopsis*, *Heterotermopsis* and *Coptotermes*.

Choice of appropriate procedures includes consideration of such variable factors as the design of the structure, water table, soil type, soil compaction, grade conditions and the location and type of domestic water supplies. The biology and behavior of the involved termite species are important factors to be known as well as suspected location of the colony and severity of the infestation within the structure to be protected. For advice concerning current control practices for specific local conditions, consult resources in structural pest control.

### General Use Precautions

Contamination of public and private water supplies must be avoided by following these minimum precautions:

1. Use anti-backflow equipment or procedures to prevent siphonage of pesticide back into water supplies.
2. Do not treat soil that is water saturated or frozen.
3. Consult Federal, state and local specifications for information regarding approved treatment practices in your area.

Structures that contain wells or cisterns may be treated using the following guidelines:

1. Do not treat soil while it is beneath or within the foundation of a structure that contains a well or cistern. The treated backfill method may be used if the soil is removed and treated outside the foundation.
2. If treatment must be made along exterior foundation walls of structures containing wells or cisterns or other difficult situations such as near walls or cisterns, along fieldstone or rubble walls, along faulty foundation walls, around pipes and utility lines which lead downward from the structure to a well, pond, or other body of water, application may be made in the following manner:

### Excavation/Treated Backfill Technique

- a. Trench and remove soil to be treated onto heavy plastic sheeting or similar material or into a wheelbarrow.
- b. Treat the soil at the rate of 4 gallons of diluted emulsion per 10 linear feet per foot of depth of the trench or 1 gallon of dilution per 1.0 cubic foot (See "Rate Determination Guidelines"). An initial treatment using a 1.0% dilution will provide effective, optimum long term residual control. Mix thoroughly into the soil taking care to contain the liquid and prevent runoff or spillage.
- c. After the treated soil has absorbed the diluted emulsion, replace the soil into the trench.

3. Infected and/or damaged wood can be treated using an injection technique such as is described in "Control of Wood Infesting Insects".

All noncellulose wood and cellulose containing materials, including scrap wood and four boards, should be removed from around foundation walls, crawl spaces, and porches. This does not include existing structural soil contact wood that has been treated.

### Rate Determination Guidelines

Consult the local extension agent or state entomologist for application rate recommendations.

An initial treatment using a 1.0% dilution will provide effective, optimum long term residual control.

A 2.0% dilution may be used to protect utility poles and fence posts.

Gallons of Finished Dilution Desired	Dursban TC Needed		
	0.5%	1.0%	2.0%
1	1 1/3 fl oz	2 2/3 fl oz	5 1/3 fl oz
5	6 2/3 fl oz	13 1/3 fl oz	26 2/3 fl oz
10	13 1/3 fl oz	26 2/3 fl oz	53 1/3 fl oz
24	1 qt	1 1/2 gal	1 gal
48	1/2 gal	1 gal	2 gal
97	1 gal	2 gal	4 gal

### Mixing Directions

It is important that the termiticide dilution be uniformly mixed in the spray tank before beginning the treatment. Once mixed, Dursban TC will not settle out in the tank although the initial mixing will be enhanced by agitation, circulation through the treating hose, and the filling process.

1. Fill tank 1/4 to 1/3 full.
2. Start pump to begin in-pass agitation and place end of treating tool in tank to allow circulation through hose.
3. Add appropriate amount of Dursban TC.
4. Add remaining amount of water.
5. Let pump run and allow recirculation through the hose for 2 to 3 minutes.

### Application Volume

To ensure thorough and complete coverage in different soil types, it may become necessary to adjust the volume being applied. In situations such as heavy, clay-type soils which will not accept large amounts of water, reduced volumes can be used which will deliver the appropriate concentrations of termiticide in the soil. This would also apply to sensitive areas and/or horizontal applications where less volume may be desirable. Minimum volumes will be specified in the appropriate use directions.

In light textured soils such as sand or gravel which accept larger amounts of water, increased volumes which deliver the appropriate concentration of termiticide in the soil may be used. Maximum volumes will be specified in the appropriate use directions.

### Preconstruction Subterranean Termite Treatment

Effective preconstruction treatment for subterranean termite prevention requires the establishment of vertical and/or horizontal chemical barriers between wood in the structure and the termite colonies in the soil. To meet FHA termite proofing requirements, follow the latest edition of the Housing and Urban Development (HUD) Minimum Property Standards. Follow state and local regulations to meet minimum treatment standards for preventive preconstruction treatments.

All holes drilled in construction elements for preconstruction treatments should be securely plugged following the application.

See "Rate Determination Guidelines" and "Table 1" for dilution directions.

1. For horizontal barriers, applications shall be made using a low pressure spray after grading is completed and prior to the pouring of the slab or footing.

- a. For a 1.0% rate, apply 1 gallon of dilution per 10 square feet, or use 2 2/3 fluid ounces of Dursban TC per 10 square feet in sufficient water (no less than 1/2 gallon or more than 2 gallons) to provide thorough and continuous coverage of the area being treated (See "Application Volume").

If the fill is washed gravel or other coarse material, it is important that a sufficient amount of dilution be used to reach the soil substrate beneath the coarse fill.

- b. If concrete slabs cannot be poured over the soil the same day it has been treated, a vapor barrier should be placed over the treated soil to prevent disturbance of the termiticide barrier.

2. For vertical barriers, apply the 1.0% dilution at a rate of 4 gallons per 10 linear feet per foot of depth. Establish vertical barriers in areas such as around the base of foundations, plumbing lines, backfill soil against foundation walls and other areas which may warrant more than just a horizontal barrier.

- a. Rodding and/or trenching applications should be made to reach the top of the footing. Rod holes should be spaced to provide a continuous barrier.

- b. Trenches need not be wider than 6 inches. Treat soil with the dilution as it is being replaced in the trench.

For a 1.0% rate, apply 4 gallons of dilution per 10 linear feet per foot of depth or 10 2/3 fluid ounces of Dursban TC per 10 linear feet per foot of depth from grade to top of footing in sufficient water (not less than 2 gallons or more than 8 gallons) to ensure complete coverage.

- c. Hollow block foundations or voids of masonry can be treated to make a complete chemical barrier especially if the soil were not treated prior to pouring the footing. Apply the dilution at a rate of 2 gallons per 10 linear feet so that it reaches the top of the footing.

- d. For crawl spaces, establish a vertical barrier on both sides of the foundation and around all piers and areas where underground utilities exit the soil. Do not apply the dilution to the entire surface area intended as the crawl.

3. For plenum type structures which use a sealed underfloor space to circulate heated and/or cooled air throughout the structure, apply the dilution at the rate of 4 gallons per 10 linear feet per foot of depth. Soil adjacent to both sides of foundation walls, supporting piers, plumbing and conduits should be treated by trenching or rodding where soil conditions permit to a depth of 6 inches or, if less shallow, to the top of the footing. When conditions will not permit trenching or rodding, surface application adjacent to interior foundation walls may be made but the treated strip shall not exceed a width of 18 inches, horizontally, from the foundation walls, piers or pipes. The surface application should be made at a rate of 1 gallon per 10 square feet at a very coarse spray under low pressure (not to exceed 20 P.S.I. when measured at the treating tool). After soil treatment, a continuous vapor barrier of at least 6 mil polyethylene film or other suitable vapor barrier must be installed on the ground surface over the entire subfloor area and on the inside of the plenum walls, in accordance with the recommended practices for plenum type structures.

### Postconstruction Treatments

See "Rate Determination Guidelines" and "Table 1" for dilution directions.

**Caution:** Do not apply dilution until location of heat or air conditioning ducts, vents, water and sewer lines and electrical conduits are known and identified. Extreme caution must be taken to avoid contamination of these structural elements and always.

All holes drilled in construction elements of living areas of home for postconstruction treatment should be securely plugged following application.

1. For slab-on-ground construction applications may be made using techniques such as sub-slab injection, rodding and/or trenching. Injectors should not extend beyond the tops of the footings.

- a. Treat along the outside of the foundation to form a continuous termiticide barrier in the soil.

For shallow foundations, 1 foot or less, dig a narrow trench approximately 6 inches wide along the outside of the foundation walls. Do not dig below the bottom of the footings. For foundations with exposed footings, dig a trench alongside the footing taking care not to undermine the footing. The dilution should be applied to the trench and mixed with the soil as it is replaced in the trench.



For a 1.0% rate, apply 4 gallons of dilution per 10 linear feet or use 10 2/3 fluid ounces of Durban TC per 10 linear feet in sufficient water (not less than 2 gallons or more than 8 gallons) to provide thorough and complete coverage of the area being treated (See "Application Volume").

For foundations with footings deeper than 1 foot, apply the dilution at a rate of 4 gallons per 10 linear feet per foot of depth.

- b. When treating cracks and expansion joints in the slab, along sidewalks or poles adjacent to the exterior foundation wall or other areas where holes are to be drilled to form a continuous termiteicide barrier, the holes should be spaced at intervals up to 24 inches depending on soil type.

Hard, dry soils typically allow good lateral (horizontal) dispersion. However, they may be slow in absorption or downward movement. Care must be taken when injecting through slabs into areas with this type of soil. Low pressures should be considered in this situation. This will help to avoid backspilling from the injection hole, backflow from cracks and expansion joints, and unwanted emergence of the termiteicide dilution from adjacent drill holes. A slow, low pressure application using the proper volume of termiteicide dilution will allow the soil to absorb the liquid and provide an adequate vertical barrier. The wider drill hole spacings (18 to 24 inches) can usually be used in this situation. Sand, loam, or gravel backfill materials are commonly found under slab foundations. The type of fill, amount of settling that has occurred, moisture content, etc., will determine drill hole spacing and amount of termiteicide dilution to be injected through each hole. Highly absorptive soils or those with large pore spaces (gravel, coarse sand) will afford rapid downward (vertical) movement and limited lateral (horizontal) distribution of the termiteicide dilution. In this situation, consider using a lateral dispersion tip on the sub-slab injector and place the drill holes closer together (12 to 18 inches).

For a 1.0% rate, apply 4 gallons of dilution per 10 linear feet.

- c. It may be necessary to treat along one side of interior partition walls if there are cracks in the slab, plumbing entry points, existing termite infestations, or other conditions which would make treatment appropriate.
- d. To complete the termiteicide barrier under slab foundations, it may be necessary to drill and treat near plumbing and electrical entry needs, drains, or other areas where termites might enter the structure. In this instance, one or more holes should be drilled in the slab as close to the entry point as is practical and termiteicide placed in the fill. As a general rule, 4 to 5 gallons of dilution per entry point will usually give adequate coverage, however, the use of directional or lateral dispersion tips or foam delivery systems can give adequate coverage with lower volumes. Location of the drill hole in relation to the entry point, type of soil fill, presence or absence of a vapor barrier, application pressure and other considerations will affect the coverage and volume of termiteicide needed to form a complete barrier. Precautions must be taken to avoid drilling into plumbing or electrical conduit.
- a. When necessary, drill through the foundation walls from the outside and force the dilution just beneath the slab either along the inside of the foundation or along all the cracks and expansion joints and other critical areas.
- f. Bath traps: Exposed soil or soil covered with tar or a similar type sealant beneath and around plumbing and/or drain pipe entry areas may be treated with a 1.0% dilution of Durban TC.

An access door or inspection vent should be cut and installed, if not already present. After inspection and removal of any wood or cellulose debris, the soil can be treated by rodding or trenching the soil. A one square foot bath trap will usually require about 3 to 5 gallons of dilution for thorough and complete coverage.

2. Hollow block foundations or voids in masonry resting on the footing can be treated to make a continuous chemical barrier in the voids. If the void has direct contact with the soil, it should be treated. Apply at the rate of 2 gallons of dilution per 10 linear feet to reach the top of the footing or soil. It is not necessary to treat the entire vertical surface of the void, rather, apply dilution to the lower part of the void so that it reaches the top of the footing or the soil.

3. For basements, apply at a rate of 4 gallons of dilution per 10 linear feet per foot of depth. Where footings are greater than 1 foot of depth from the grade to the top of the footing, application may be made by trenching and/or rodding at a rate of 4 gallons of dilution per 10 linear feet per foot of depth. Treat outside of foundation walls, and if necessary beneath the basement floor along inside of foundation walls, along cracks in basement base, along interior bearing walls, around sewer pipes, conduits and pipes.

4. In crawl spaces for a 1.0% rate, apply 4 gallons of dilution per 10 linear feet per foot of depth. Treat both sides of foundation and around all piers and pipes.

a. Rodding and/or trenching applications should be made to reach the top of the footing. Rod holes should be spaced to provide a continuous chemical barrier.

b. Trenches need not be wider than 6 inches nor below the top of the footing. The emulsion should be mixed with the soil as it is replaced in the trench.

For a 1.0% rate, apply 4 gallons of dilution per 10 linear feet per foot of depth or 10 2/3 fluid ounces of Durban TC per 10 linear feet per foot of depth from grade to top of footing in sufficient water (not less than 2 gallons or more than 8 gallons) to ensure complete coverage.

- c. For inaccessible underfloor spaces, treat soil by an alternate method such as drilling and rodding through foundation walls from the outside.

- d. When conditions will not permit trenching, i.e. inadequate soil to wood clearance, rocky soil, etc., a surface application may be made adjacent to interior foundation walls, piers, and pipes but the treated soil shall not exceed 18 inches in width. The surface application should be made in a manner that avoids runoff. Use a very coarse spray at a pressure not exceeding 20 P.S.I. when measured at the treating tool. Structures should be ventilated during application and until the treatment is dry.

For a 1.0% rate, apply 4 gallons of dilution per 10 linear feet or 10 2/3 fluid ounces of Durban TC per 10 linear feet in sufficient water (not less than 2 gallons or more than 8 gallons) to ensure complete coverage (See "Application Volume").

In the presence of unsupported termites tubes, mechanically destroy each tube and apply approximately 1 pint of 1.0% dilution to an area of no more than 18 inches in diameter where the tubes emerged from the soil.

5. In plenum type structures, which use a sealed underfloor space to circulate heated and/or cooled air within the structure, apply the 1.0% dilution at the rate of 4 gallons per 10 linear feet per foot of depth. Soil adjacent to both sides of foundation walls, supporting piers, plumbing and conduits should be treated by trenching or rodding where soil conditions permit to a depth of 6 inches or to the top of the footing. When conditions will not permit trenching or rodding, a surface application adjacent to interior foundation walls may be made, but the treated strip shall not exceed a width of 18 inches, horizontally, from the foundation piers or pipes. The surface application should be made at a rate of 1 gallon per 10 square feet as a very coarse spray under low pressure (not to exceed 20 P.S.I. when measured at the treating tool). In order to properly calculate the amount of termiteicide dilution needed, use the following guidelines: A strip 18 inches wide and 6 feet 6 inches long is equal to 10 square feet. Before treatment, a barrier of at least 6 mil polyethylene film or other suitable vapor barrier must be present on the ground surface over the entire subfloor area in accordance with recommended practices for plenum type structures. Install a new vapor barrier if barrier is absent or deteriorated. The vapor barrier film on the ground and foundation walls must be folded back from the areas to be treated prior to treatment and replaced immediately following treatment. Structures should be ventilated during application and until treatment is dry.

6. Application using foam generating equipment: In situations where conventional application methods have not or are not likely to provide adequate coverage, foam generating equipment or slinger machines can be used to provide a continuous barrier. Treatment of filled porches, chimney bases, soil under slabs and treatment of wall voids are examples where foam applications may be useful.

**Foam Treatment Recommendations:** Refer to label of foaming adjuvant for proper amount of material to add per gallon of Durban TC dilution.

The following provides the amount of Durban TC required for a given area and volume range of the preformed termiteicide dilution necessary for application of the product.

For a 1% rate, apply 10 2/3 fluid ounces of Durban TC per 10 linear feet using no less than 2 gallons, or more than 8 gallons, of preformed dilution.

## Underground Utility Cable and Conduit

**Preventative Treatment for Use Only in Guam, Hawaii, and Other Pacific Islands:** Use a 1.0% to 2.0% dilution (See "Rate Determination Guidelines" and "Table 1" for dilution directions). After digging the trench, place approximately 6 inches of backfill or sand at the bottom and apply 2 gallons of the dilution per 10 linear feet. Allow to dry then replace the cable backfill. Cover with an additional 6 inches of backfill or sand and apply another 2 gallons of emulsion per 10 linear feet. Finish filling trench with untreated soil.

Whenever cables emerge from the soil to meter poles, light frames, etc., treat the soil around the cable and pole or frame to establish a continuous 6 inch chemical barrier.

A continuous 6 inch chemical barrier must be established around the cable to insure protection from termite attack.

## Utility Poles and Fence Posts

**Preventative Treatment:** Use a 1.0 to 2.0% dilution (See "Rate Determination Guidelines" and "Table 1" for dilution directions). After pole or post hole has been dug, mix the dilution with the soil as it is being replaced to a depth of approximately 18 inches. Place pole or post on top of this layer. The remaining soil fill and termiteicide dilution

should be mixed while backfilling the hole. The treated soil zone around the post or pole should be approximately 6 inches wide. Soil for the base layer and backfill of each pole or post should be treated at a rate of 4 gallons of dilution per 10 cubic feet of soil.

**Remedial Treatment:** To control existing infestations or to prevent infestation of posts and poles already in place, use a 1.0% to 2.0% dilution. The termiteicide dilution should be injected into termite galleries or channels in the wood. For maximum protection, injection sites should be at or below grade.

Posts or poles may also be treated by rodding down to the base of the structure. Rod holes should be placed approximately 3 inches away from the pole and about 6 inches apart. Inject approximately 12 fluid ounces of dilution per foot of depth into each rod hole.

It may be appropriate to use one or both treatment techniques depending upon the specific circumstances at the work site e.g. soil type.

## Retreatment Statement

Retreatment of subterranean termites may be made any time there is evidence of reinfestation, disruption or loss of the barrier due to construction, excavation, landscaping, etc. Retreatments may be made in vulnerable or reinfested areas in accordance with application techniques described on this label.

Treatments may be made as either a spot or complete treatment. The timing of these treatments will vary, depending on factors such as termite pressure, soil conditions, etc., which may reduce the effectiveness of the barrier.

Annual retreatments are prohibited unless reinfestation or barrier disruption has occurred.

## Control of Wood Infesting Insects

### Dosage and Mixing Directions

Durban TC is recommended for use as an aqueous emulsion containing 0.5% to 1.0% chlorpyrifos. See "Table 1" for dilution directions.

### Advisements

When spraying overhead interior living areas of homes, apartment buildings, etc., cover surfaces below the area being sprayed with plastic sheeting or other material.

Contact with treated surfaces should be avoided until spray has dried. Cover or remove exposed foods before treatment. Do not use in structures housing animals which are intended for or which produce products to be used for food purposes. Do not use for above ground control of wood infesting insects in food areas of food handling establishments, restaurants or other areas where food is commercially prepared or processed.

To control wood infesting insects such as powderpost beetles (*Lyctidae*), false powderpost beetles (*Bostichidae*), deathwatch beetles (*Anobiidae*), old house borers (*Cerambycidae*) and ambrosia beetles (*Scolytidae*) in homes and other structures, treatments may be applied either as coarse sprays or by brushing the product onto targeted surfaces. Use a sufficient amount of spray to cover the area to the point of wetness but avoiding runoff. Use the following guidelines to determine appropriate rates of application:

New Wood, (typically less than 10 years of age) apply approximately 1 gallon of dilution per 150 square feet as a coarse spray.

Old Wood, (typically greater than 10 years of age) apply approximately 1 gallon of dilution per 100 square feet as a coarse spray.

### Treatment Directions

For control of carpenter ants in homes and other structures, apply dilution around doors and windows and other places where carpenter ants enter the premises and where they crawl and hitch. Also spray into cracks and crevices or through openings or small newly drilled holes into voids where these ants or their nests are present. Use a sufficient amount of coarse spray to cover the area to the point of wetness but avoiding runoff.

For control of termites (focalized areas of infested wood in structures), apply dilution to voids and channels in damaged wood and in spaces between members of a structure and between wood and foundations where termite infestation is likely to occur. Application may be made to inaccessible areas by drilling, and then injecting the emulsion. Use a sufficient amount of spray to cover the area to the point of wetness but avoiding runoff. Treatment of focalized areas is intended to kill workers and winged reproductive forms of termites in the treated areas and to prevent infestations for a temporary period. This type of application is not intended to be a substitute for soil treatment or mechanical alteration to control subterranean termites.

### Pest Control on Outside Surfaces and Around Buildings

To control ants, bees, carpenter ants, clover mites, cockroaches, crickets, earwigs, hornets, millipedes, scorpions, spiders, ticks, wasps and yellowjackets.

**Outside surfaces:** Apply Dursban TC (termiticide) as a residual spray to outside surfaces of buildings including porches, window frames, eaves, patios, garages, refuse dumps and other areas where pests congregate or have been observed. Treatment may be repeated as needed to maintain effectiveness.

**Perimeter sprays:** To help prevent infestation of buildings, treat a band of soil and vegetation 6 to 10 feet wide around and adjacent to the building. Also, treat the building foundation to a height of 2 to 3 feet where pests are active and may find entrance. For scorpions, treat or remove accumulations of lumber, firewood, and other materials which serve as insect harborage sites.

**Dosage and Mixing Instructions:** Use Dursban TC mixed as a 0.25% to 0.5% dilution as indicated in the following table:

Gallons of Finished Dilution Desired	Dursban TC Required	
	0.25% Solution	0.5% Solution
1	2/3 fl oz	1 1/3 fl oz
5	3 1/3 fl oz	6 2/3 fl oz
10	6 2/3 fl oz	13 1/3 fl oz
24	16 fl oz	1 qt
48	1 qt	2 qt
97	2 qt	1 gal

Small amounts of solution mixed at 0.5% to 1.0% termiticide rates remaining in the spray tank can be diluted as indicated in the following table and used to treat outside surfaces or perimeter areas:

Concentration of Termiticide Dilution	Amount of Water to Add to Each Gallon of Termiticide Dilution to Provide a 0.25% Spray	Amount of Water to Add to Each Gallon of Termiticide Dilution to Provide a 0.5% Spray
0.5%	1 gallon	none
0.75%	2 gallons	0.5 gallon
1.0%	3 gallons	1 gallon

### Warranty Disclaimer

DowElanco warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. DOWELANCO MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

### Inherent Risks of Use

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of DowElanco or the seller. All such risks shall be assumed by Buyer.

### Limitation of Remedies

The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at DowElanco's election, one of the following:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

DowElanco shall not be liable for losses or damages resulting from handling or use of this product unless DowElanco is promptly notified of such loss or damage in writing. In no case shall DowElanco be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of DowElanco or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

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LABEL CODE 113-52-903  
EPA APPROVAL 04/10/92, 09/15/92, 09/29/92  
REPLACES 113-10-017, 123-10-031, 123-10-035

Revisions include:

- 1) Previously approved supplemental labeling entitled "Postconstruction Application Using Foam Generating Equipment" was added to main label.
- 2) Previously approved supplemental labeling entitled "Pest Control on Outside Surfaces and Around Buildings" was added to main label.

DOW CHEMICAL U.S.A.  
MIDLAND, MI 48674  
EMERGENCY PHONE:  
517-636-4400

## MATERIAL SAFETY DATA SHEET

PRODUCT CODE 13242  
EMPIRE® 20  
MICROENCAPSULATED INSECTICIDE  
EFFECTIVE DATE: 09/14/89  
DATE PRINTED: 01/02/94 1430/02491

### 1. INGREDIENTS: (% w/w, unless otherwise noted)

O,O-Diethyl	
O-(3,5,6-trichloro-2-pyridinyl) phosphorothioate, (chlorpyrifos) CAS# 002921-88-2	20%
Proprietary petroleum solvent	10%
Water and other proprietary ingredients	70%

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not "Hazardous" per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

### 2. PHYSICAL DATA:

BOILING POINT: 212°F, 100°C†  
VAP. PRESS: 17.9 mmHg @ 20°C†  
VAP. DENSITY: <1†

†Data for water

SOL. IN WATER: Disperses in water  
SP. GRAVITY: 1.03  
APPEARANCE: White suspension  
ODOR: Slight solvent odor

### 3. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: None  
METHOD USED: TCC  
FLAMMABLE LIMITS  
LFL: None  
UFL: None

EXTINGUISHING MEDIA: Water fog, foam, CO<sub>2</sub>, dry chemical.  
FIRE & EXPLOSION HAZARDS: Does not burn.  
FIRE-FIGHTING EQUIPMENT: Wear positive-pressure, self-contained breathing apparatus.

### 4. REACTIVITY DATA:

STABILITY: (CONDITIONS TO AVOID) Avoid heating above 50°C for extended periods - loss of active ingredient may result.  
INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) Base. Consult manufacturer for specific cases.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride, ethyl sulfide, diethyl sulfides, nitrogen oxides.  
HAZARDOUS POLYMERIZATION: Will not occur.

### 5. ENVIRONMENTAL AND DISPOSAL INFORMATION:

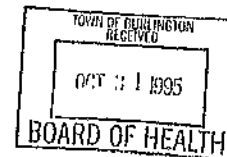
ACTION TO TAKE FOR SPILLS/LEAKS: Sweep up into plastic bags using sweeping compound.  
DISPOSAL METHOD: Do not contaminate food, feed, or water by storage or cleaning of equipment. Open burning is prohibited.  
Pesticide, spray mixture, or rinse water that cannot be used

according to label instructions must be disposed of according to applicable federal, state or local procedures. If burial is permitted, bury in isolated, non-crop location away from domestic or ground water supplies. Keep out of domestic or natural water sources, since product may be toxic to aquatic life.

### 6. HEALTH HAZARD DATA:

EYE: Essentially nonirritating to eyes.  
SKIN CONTACT: Prolonged contact is essentially non-irritating to skin.  
SKIN ABSORPTION: A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. The LD<sub>50</sub> for skin absorption in rabbits is > 10,000 mg/kg.

INGESTION: Single dose oral toxicity is extremely low. The oral LD<sub>50</sub> for rats is > 25,000 mg/kg. No hazards anticipated from ingestion incidental to industrial exposure.  
INHALATION: Vapors are unlikely due to physical properties.



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DOW CHEMICAL, U.S.A.  
MIDLAND, MI 48674  
EMERGENCY PHONE:  
517-636-4400

## MATERIAL SAFETY DATA SHEET

PRODUCT CODE 13012  
EMPIRE® 20  
MICROENCAPSULATED INSECTICIDE  
EFFECTIVE DATE: 08/14/85  
DATE PRINTED: 06/02/89 MSDS:003491

**SYSTEMIC (OTHER TARGET ORGAN) EFFECTS:** Chlorpyrifos is a cholinesterase inhibitor. Chlorpyrifos produced mild adrenal effects when fed to rats, but only at doses that greatly exceeded any exposures that would be received during use of this product. Excessive exposure to solvent may cause respiratory irritation and central nervous system effects; however, excessive exposure to chlorpyrifos or to solvent is unlikely due to physical state (encapsulated).

**CANCER INFORMATION:** Chlorpyrifos did not cause cancer in long-term animal studies.

**TERATOLOGY (BIRTH DEFECTS):** Chlorpyrifos did not cause birth defects in animals; other effects were seen in the fetus only at doses which caused toxic effects to the mother.

**REPRODUCTIVE EFFECTS:** In animal studies, chlorpyrifos has been shown not to interfere with reproduction.

**MUTAGENICITY (EFFECTS ON GENETIC MATERIAL):** Based on a majority of negative data and some equivocal or marginally-positive results, chlorpyrifos is considered to have minimal mutagenic potential.

### 7. FIRST AID:

**EYES:** Irrigate immediately with water for at least 5 minutes. SKIN: Wash off in flowing water or shower.

**INGESTION:** Induce vomiting if large amounts are ingested. Consult medical personnel.

**INHALATION:** Remove to fresh air if effects occur. Consult a physician.

**NOTE TO PHYSICIAN:** Atropine by intravenous administration is the preferable antidote. Oximes may or may not be therapeutic but it is recommended they not be used in place of atropine. Suggest serum and/or RBC cholinesterase determination. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

### 8. HANDLING PRECAUTIONS:

**EXPOSURE GUIDELINE(S):** Chlorpyrifos: ACGIH TLV and OSHA PEL are 0.2 mg/m<sup>3</sup>, skin.

**VENTILATION:** Control airborne concentrations below the exposure guideline. Good general ventilation should be sufficient for most conditions.

**RESPIRATORY PROTECTION:** Atmospheric levels should be maintained below the exposure guideline. When respiratory

protection is required for certain operations, use an approved air-purifying respirator.

**SKIN PROTECTION:** For brief contact, no precautions other than clean, body-covering clothing should be needed. Use impervious gloves when prolonged or frequently repeated contact could occur.

**EYE PROTECTION:** Use safety glasses.

### 9. ADDITIONAL INFORMATION:

#### REGULATORY REQUIREMENTS:

**SARA HAZARD CATEGORY:** This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is

considered, under applicable definitions, to meet the following categories:

A delayed health hazard

MSDS STATUS: Revised sections 6, 7 and 8.

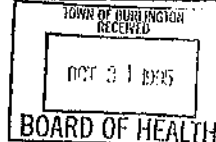
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## Material Safety Data Sheet

 **DowElanco**  
**DURSBAN® TC**  
Termiticide Concentrate



Emergency Phone: 517-636-4400  
General Phone: 1-800-352-8776

EPA Reg. Number: 62719-47  
Effective Date: August 12, 1994  
Product Code: 26056  
MSDS Number: 001449  
DowElanco • Indianapolis, IN 46266

evidence for skin sensitizing properties. Furthermore, the product did not sensitize human subjects when tested at an end-use dilution.

**SKIN ABSORPTION:** A single prolonged exposure may result in the material being absorbed in harmful amounts. The LD50 for skin absorption in rabbits is 1265 mg/kg (males) and 930 mg/kg (females).

**INGESTION:** Single dose oral toxicity is moderate. The oral LD50 for male rats is 228 mg/kg. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; however, swallowing amounts larger than that may cause serious injury, even death. If aspirated (liquid enters the lung), may cause lung damage or even death due to chemical pneumonia.

**INHALATION:** The LC50 for female rats is between 2.6-3.6 mg/l for 4 hours. Excessive exposure may produce organophosphate type cholinesterase inhibition. Excessive exposure to solvent may cause respiratory tract irritation and central nervous system depression. Signs and symptoms of central nervous system depression, in order of increasing exposure, are headache, dizziness, drowsiness, and incoordination.

**SYSTEMIC (OTHER TARGET ORGAN) EFFECTS:** Excessive exposure may produce organophosphate-type cholinesterase inhibition. Signs and symptoms of excessive exposure to active ingredient may be headache, dizziness, incoordination, muscle twitching, tremors, nausea, abdominal cramps, diarrhea, sweating, pinpoint pupils, blurred vision, salivation, tearing, lightness in chest, excessive urination, convulsions. Active ingredient produced mild adrenal effects when fed to rats, but only at doses that greatly exceeded any exposures that would be received during use of this product. Solvent has been reported to cause liver, kidney, and blood effects at high exposure levels. Xylene, a minor component of this mixture, is reported to have caused hearing loss in laboratory animals upon inhalation of high concentrations; such effects have not been reported in humans.

**CANCER INFORMATION:** Active ingredient did not cause cancer in long-term animal studies. Xylene was not found to be carcinogenic in a National Toxicology Program bioassay in rats and mice.

**TERATOLOGY (BIRTH DEFECTS):** Active ingredient did not cause birth defects in laboratory animals. Solvent was toxic to the fetus in laboratory animal tests, but only at doses that were toxic to the mothers. Very high concentrations of solvent (producing severe toxicity to adult animals) induced an increase in cleft

palate in mice, which is a common developmental abnormality in mice and is associated with stress to the maternal animals. No malformations were induced at exposures less than those causing severe toxicity to the adult animals.

**REPRODUCTIVE EFFECTS:** Chlorpyrifos did not interfere with fertility in reproduction studies in laboratory animals. Some evidence of toxicity to the offspring occurred, but only at a dose high enough to produce significant toxicity to the parent animals. In a 3-generation reproduction study on the solvent, the only effects observed were at exposures that produced severe toxicity to the parent animals.

**MUTAGENICITY (EFFECTS ON GENETIC MATERIAL):** Results of in vitro ('test tube') and animal mutagenicity tests on the aromatic solvent have been negative. Based on a majority of negative data and some equivocal or marginally positive results, active ingredient is considered to have minimal mutagenic potential.

### 7. FIRST AID:

**EYES:** Flush eyes with plenty of water for 15 minutes. Get medical attention.

**SKIN:** Immediately wash skin with plenty of soap and water. Get medical attention. Before washing, remove contaminated clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes.

**INGESTION:** Call a physician or poison control center immediately. Do not induce vomiting. Contains an aromatic petroleum solvent. Do not give anything by mouth to an unconscious person.

**INHALATION:** Remove to fresh air if symptoms of cholinesterase inhibition appear and get medical attention immediately.

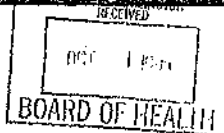
**NOTE TO PHYSICIAN:** The decision of whether to induce vomiting or not should be made by an attending physician. If lavage is performed, endotracheal and/or esophageal control is suggested. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach.

Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate significance of exposure (baseline data are useful). Atropine, only by injection, is the preferable antidote. Oximes, such as 2-PAM/protopam, may be therapeutic if used early; however, use only in conjunction with atropine. In case of severe acute poisoning, use antidote immediately after establishing an open airway and respiration. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient



# Material Safety Data Sheet

**DowElanco**  
**DURSBAN® TC**  
 Termiticide Concentrate



Emergency Phone: 517-636-4400  
 General Phone: 1-800-352-8778

EPA Reg. Number: 62719-47  
 Effective Date: August 12, 1994  
 Product Code: 29058  
 MSDS Number: 001449  
 DowElanco • Indianapolis, IN 46268

## 1. INGREDIENTS: (% w/w, unless otherwise noted)

O,O-Diethyl O-(3,5,6-Trichloro-2-pyridinyl) phosphorothioate, (chlorpyrifos) CAS# 002921-88-2 .....42.8%  
 Inert Ingredients: .....57.2%  
 Proprietary emulsifiers  
 Xylene range aromatic solvent CAS# 064742-95-2  
 Cumene . . . CAS# 000098-82-8  
 Xylene . . . CAS# 001330-20-7  
 Ethyltoluene . . . CAS# 025550-14-5  
 1,2,4-Trimethylbenzene CAS# 000095-63-6

\*Components of xylene range aromatic solvent  
 This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not "Hazardous" per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

## 2. PHYSICAL DATA:

BOILING POINT: 290°F, 143°C  
 VAP. PRESS: <10 mmHg @ 25°C  
 VAP. DENSITY: Not determined  
 SOL. IN WATER: Emulsifiable  
 SP. GRAVITY: Approx. 1.12 @ 20C/20°C  
 APPEARANCE: Yellow liquid.  
 ODOR: Solvent-type odor.

## 3. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: 122°F, 50°C  
 METHOD USED: TCC  
 FLAMMABLE LIMITS:  
 LFL: 1%  
 UFL: 6% (xylene range aromatic solvent)  
 EXTINGUISHING MEDIA: Foam, carbon dioxide, and dry chemical.  
 FIRE & EXPLOSION HAZARDS: Foam fire extinguishing system is preferred because uncontrolled water can spread possible contamination. Toxic irritating gases may be formed under fire conditions. Rapid decomposition above 320-392°F (160-200°C). Violent

rupture of containers due to over-pressurization may occur at temperatures generated during a fire.  
**FIRE-FIGHTING EQUIPMENT:** Use positive-pressure, self-contained breathing apparatus and full protective equipment.

## 4. REACTIVITY DATA:

**STABILITY: (CONDITIONS TO AVOID)** Avoid heating above 50°C (122°F). Chlorpyrifos undergoes exothermic decomposition at approximately 130°C (265°F) which can lead to higher temperatures and violent decomposition if generated heat is not removed. Contains petroleum derivative solvent - will burn.  
**INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID)** None known.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Under fire conditions, hydrogen chloride, ethyl sulfide, diethyl sulfide and nitrogen oxides can be formed.  
**HAZARDOUS POLYMERIZATION:** Will not occur.

## 5. ENVIRONMENTAL AND DISPOSAL INFORMATION:

**ACTION TO TAKE FOR SPILLS/LEAKS:** Absorb spills with an absorbent material such as HAZORB, ZORB-BALL, or dirt. Thoroughly wash body areas which come into contact with this product. Contain spill to keep out of sewers. For large spills, consult manufacturer.  
**DISPOSAL METHOD:** Do not contaminate food, feed, or water by storage or disposal. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the hazardous waste representative at the nearest EPA regional office for guidance.

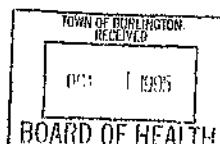
## 6. HEALTH HAZARD DATA:

**EYE:** May cause moderate eye irritation. May cause slight corneal injury. Effects may be slow to heal. Vapors may irritate eyes.  
**SKIN CONTACT:** Short single exposure not likely to cause significant skin irritation. Prolonged or repeated exposure may cause skin irritation. A test in guinea pigs indicated that this product may have weak skin sensitization potential. However, experience in the manufacture and use of this product has not provided

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# Material Safety Data Sheet

**DowElanco**  
**DURSBAN® TC**  
 Termiticide Concentrate



Emergency Phone: 517-636-4400  
 General Phone: 1-800-352-8778

EPA Reg. Number: 62719-47  
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 DowElanco • Indianapolis, IN 46268

## 8. HANDLING PRECAUTIONS:

**EXPOSURE GUIDELINE:**  
 Chlorpyrifos: ACGIH TLV and OSHA PEL are 0.2 mg/m<sup>3</sup>. Skin.  
 Trimethylbenzene (mesitylene): ACGIH TLV and OSHA PEL are 25 ppm  
 Aromatic 100 (xylene range aromatic solvent): none established. Supplier recommends a guideline of 50 ppm for the total product which is a mixture of petroleum hydrocarbons.  
 Cumene<sup>1</sup>: ACGIH TLV and OSHA PEL are 50 ppm.  
 Skin.  
 Xylene<sup>1</sup>: ACGIH TLV and OSHA PEL are 100ppm TWA, 150ppm STEL.  
 Ethyltoluene<sup>1</sup>: Dow Industrial Hygiene Guide is 10 ppm.  
**VENTILATION:** Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.  
**RESPIRATORY PROTECTION:** Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use an approved air-purifying respirator.  
**SKIN PROTECTION:** Use protective clothing impervious to this material. Selection of specific items such as gloves, boots, apron, or full-body suit will depend on operation. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse.  
**EYE PROTECTION:** Use chemical goggles. If vapor exposure causes eye discomfort, use a full-face respirator.

## 9. ADDITIONAL INFORMATION:

**SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** See label. Keep out of reach of children. Do not swallow. Do not get in eyes or on skin. Avoid breathing mist or vapors. Keep away from heat and open flame. Handle concentrate in ventilated area. Wash thoroughly after handling. Depending on degree of exposure of personnel, consider monitoring blood cholinesterase levels. If in doubt, seek advice from DowElanco. Keep away from food, feedstuffs and domestic water supplies. For health and safety information on end-use dilutions of up to 1% DURSBAN (R) insecticides, see the Health and Safety Fact Sheet, Form No. 311-17-001(2/93), available from DowElanco.

MSDS STATUS: Revised section 7.

## REGULATORY INFORMATION:

(Not meant to be all-inclusive—selected regulations represented).  
**NOTICE:** The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See MSD Sheet for health and safety information.

**SARA 313 INFORMATION:** This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
1,2,4-TRIMETHYLBENZENE	000695-63-6	5 - 15 %
CUMENE	000098-82-8	1 - 5 %
XYLENE (MIXED ISOMERS)	001330-20-7	1 - 5 %

**SARA HAZARD CATEGORY:** This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title II) and is considered, under applicable definitions, to meet the following categories:

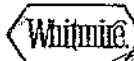
- An immediate health hazard
- A delayed health hazard
- A fire hazard

**TOXIC SUBSTANCES CONTROL ACT (TSCA):** All ingredients are on the TSCA Inventory or are not required to be listed on the TSCA Inventory.

**OSHA HAZARD COMMUNICATION STANDARD:** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:**  
 Category .....Rating  
 Health .....2  
 Flammability .....2  
 Reactivity .....1

The Information Herein is Given in Good Faith, But No Warranty, Express or Implied, is Made. Consult The DowElanco Company For Further Information.



PN 19-0517-B

**MATERIAL SAFETY DATA SHEET**

WHITMIRE RESEARCH LABORATORIES, INC. WHITMIRE (314) 225-5371 (8:00 a.m. to 5:00 p.m. CST)  
 3568 TREE COURT INDUSTRIAL BLVD. ST. LOUIS, MO 63122 PT® 515 Wasp-Freeze® (314) 576-0120 AFTER HOURS  
 EFFECTIVE DATE: JUNE 23, 1992 Wasp and Hornet Killer EMERGENCY PHONE NUMBER (800) 424-9300 CHEMTREC

PRESSURIZED LIQUID INSECTICIDE EPA REG. NO.: 499-362

**SECTION 1: HAZARDOUS INGREDIENTS**

	ACGIH TLV/TWA	ACGIH STEL	OSHA PEL
Solvents & Propellants: 99.74%			
Isoparaffinic Petroleum Solvent: CAS #64742-48-9	NE	NE	500ppm
Carbon Dioxide: CAS #124-38-9	5000ppm	30000ppm	5000ppm
Phenothrin: 0.120% CAS #26002-80-2	NE	NE	NE
[3-phenoxybenzyl d-cis and trans 2,2-dimethyl-3-(2-methylpropenyl) cyclopropane carboxylate]			
D-Trans Allethrin: 0.129% CAS #28057-48-9	5mg/M <sup>3</sup>	NE	NE

**SECTION 2: PHYSICAL DATA**

**BOILING POINT:** NA  
**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** 0.800  
**VAPOR PRESSURE IN AEROSOL CONTAINER:** 100 psig @ 70°F  
**PERCENT VOLATILE:** ~100%

**VAPOR DENSITY:** NA  
**EVAPORATION RATE:** NA  
**SOLUBILITY IN WATER:** Negligible  
**APPEARANCE AND ODOR:** Pale yellow color with solvent odor.

**SECTION 3: FIRE AND EXPLOSION HAZARD DATA**

**FLASH POINT:** 144°F (TCC) (Aerosol Concentrate)  
**FLAMMABLE LIMITS:** NA  
**NFPA 30B FLAMMABILITY:** Level III Aerosol  
**EXTINGUISHING MEDIA:** CO<sub>2</sub>; Dry Chemical; Foam

**SPECIAL FIRE FIGHTING PROCEDURES:** None required.  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Contents under pressure. Exposure to temperatures above 130°F may cause bursting.

**SECTION 4: HEALTH HAZARD DATA**

**THRESHOLD LIMIT VALUE:** NE (not really applicable - for outdoor use only)  
**ROUTES OF ENTRY:**  
 INHALATION? SKIN? INGESTION?  
 Secondary Primary Tertiary

**HEALTH HAZARD (ACUTE AND CHRONIC) - SIGNS AND SYMPTOMS OF EXPOSURE:**  
**EYE:** May cause eye irritation.  
**SKIN:** Prolonged exposure may cause skin irritation and dermatitis.  
**INGESTION & INHALATION:** Unlikely due to the product being pressurized and producing particles large enough not to be respirable. High concentrations of the isoparaffinic petroleum solvent (greater than 1000ppm) may cause headache and dizziness, are anesthetic, and may have other central nervous system effects. When used according to label directions, this level will not be attained.

**CARCINOGENICITY:**  
 NTP? IARC MONOGRAPH? OSHA REGULATED?  
 No No No

**EMERGENCY AND FIRST AID PROCEDURES:**  
**IF SWALLOWED:** Call a physician or poison control center immediately. Gastric lavage is indicated. Do not induce vomiting. Vomiting may cause aspiration pneumonia.  
**IF INHALED:** Remove patient to fresh air. Apply artificial respiration if indicated. Seek medical attention.  
**IF ON SKIN:** Remove contaminated clothing and wash affected skin areas with plenty of soap and water. Seek medical attention if irritation persists.  
**IF IN EYES:** Flush with plenty of water. Seek medical attention if irritation persists.  
**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** None known.

**SECTION 5: REACTIVITY DATA**

**STABILITY:** Indefinite when used according to label directions.  
**CONDITIONS TO AVOID:** Do not spray into open flame or onto very hot surfaces. Do not store above 130°F.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition in open flame may result in halogen acids and carbon dioxide.  
**HAZARDOUS POLYMERIZATION:** Will not occur.

**SECTION 6: SPILL OR LEAK PROCEDURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** If container begins to leak (through puncture, etc.), allow it to discharge completely in well ventilated area, then dispose of in safe place.  
**EMERGENCY TELEPHONE NUMBER OF CHEMTREC:** (800) 424-9300 (for transportation spills)

**WASTE DISPOSAL METHOD:** Aerosol container is not refillable. Do not attempt to recharge. When container is empty, discard in safe place. Do not puncture or throw into fire.

**SECTION 7: SPECIAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION:** None required.  
**VENTILATION:** For outdoor use only. LOCAL EXHAUST: NA. MECHANICAL: NA. SPECIAL: NA. OTHER: NA

**PROTECTIVE GLOVES:** None required.  
**EYE PROTECTION:** None required.  
**OTHER PROTECTIVE EQUIPMENT:** None required.

**SECTION 8: SPECIAL PRECAUTIONS**

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Contains concentrated insecticide under pressure. Do not expose to temperatures above 130°F.

**OTHER PRECAUTIONS:** For outdoor use only.

**SECTION 9: HEALTH RATING INFORMATION (NFPA)**

HEALTH - 1 FLAMMABILITY - 1 REACTIVITY - 1

**SECTION 10: SARA TITLE III/SECTION 313 SUPPLIER NOTIFICATION**

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CAS#	CHEMICAL NAME	% BY WEIGHT
This product contains no Section 313 chemicals.		

**SECTION 11: DOT SHIPPING INFORMATION**

**PROPER SHIPPING NAME:** Consumer Commodity  
**HAZARD CLASS:** ORM-D

NA - Not Applicable  
 NE - Not Established  
 PEL - Permissible Exposure Limit  
 ACL - Acceptable Ceiling Level  
 MPC - Maximum Peak Concentration  
 AEL - Acceptable Exposure Limit

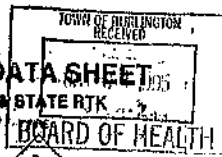
PREPARED BY: Michael G. Sarli  
 Revised: 5/10/94

PRODUCT NAME: "SHEEN"  
 TYPE & USE: Solvent/Detergent  
 Floor Treatment  
 Mixture  
 MANUFACTURER: SAVIN PRODUCTS COMPANY Inc.  
 214 HIGH ST.  
 RANDOLPH MA 02360

**MATERIAL SAFETY DATA SHEET**

29CFR 1910.1200 (OSHA) & STATE RTK

HAZARD RATING  
 4=EXTREME  
 3=HIGH  
 2=MODERATE  
 1=SLIGHT  
 0=INSIGNIFICANT



EMERGENCY PHONE: 617-961-2744 DATE: 4/20/87 SUPERCEDES: 5/25/86 BY: JLS/NER

WARNING STATEMENT	<b>DANGER</b> HARMFUL OR FATAL IF SWALLOWED. COMBUSTIBLE. CONTAINS PETROLEUM DISTILLATE. VAPOR HARMFUL.
HAZARDOUS COMPONENTS	PETROLEUM SOLVENT (Stoddard Solvent, Mineral) CAS #8052-41-3 ca 70% ACGIH/OSHA TLV/DEL 100/100 ppm. STEL 200 ppm. Hfr.Tox.LD <sub>50</sub> over 5g/kg (ori-rat) PARAFFIN OIL (Mineral Oil) CAS #8012-95-1 ca 20% ACGIH/OSHA TLV/PEL (mist) 5 mg/m <sup>3</sup> 8 HR (TWA). LD <sub>50</sub> 5000+ mg/kg (ori-rat).
MSL	OTHER COMPONENTS ARE NOT CLASSIFIED HAZARDOUS DUE TO NATURE OR CONCENTRATION.
PHYSICAL DATA	BOILING RANGE: 350-550 °F DENSITY: 0.8 g/ml; 6.7 lb/gal. VAPOR PRESSURE: ca 10 mm Hg 70°F %VOLATILE: 75% VAPOR DENSITY: ca 4X Air EVAP. RATE: Slower Than Water WATER SOLUBILITY: Not Soluble pH DATA: N/A GENERAL APPEARANCE: Water-White, Clear, Thin Liquid. Mild Petroleum Odor.
FIRE AND EXPLOSION HAZARDS	FLASH POINT: 115°F SETA CC, ASTM D-3274 FLAMM. LIMITS: LEL = 1% UEL = 6% EXTINGUISHING MEDIA: Use Dry Chemical, Foam or Carbon Dioxide. Water May Be Ineffective However Use Water To Keep Involved Containers Cool. Water Spray May Be Used To Disperse Vapors. OSHA/NFPA Fire Classification: II SPECIAL PROCEDURES Use Appropriate NIOSH/MSHA Approved Respirator. & UNUSUAL HAZARDS Protect eyes & Skin. Vapors Are Heavier Than Air And May Travel To Remote Ignition Sources.
Effects of Overexposure	EYES: Liquid & High Concentrations Of Vapor Will Cause Eye Irritation. SKIN: Prolonged Contact May Cause Drying Due To Natural Oil Removal. INHALATION: May Cause Nausea, Dizziness, Depression & Anesthetic Effect Above TLV. INGESTION: Nausea, Vomiting. Aspiration Of Liquid May Cause Pneumonitis.
HEALTH HAZARD DATA	CHRONIC DATA: Liver, Kidney, Blood & CNS Diseases May Be Aggravated.
First Aid	EYES: Flush With Running Water, At Least 15 Mins. GET MEDICAL AID. SKIN: Wash With Soap & Water. Remove & Discard Contaminated Clothes, Shoes. INHALATION: Remove Patient To Fresh Air. Use Oxygen If Indicated. INGESTION: DO NOT INDUCE VOMITING WITHOUT MEDICAL ADVICE. GET MEDICAL AID ASAP. If Vomiting Occurs, Place Patients Head Below Knees To Prevent Aspiration. ACGIH/OSHA/NIOSH DATA: See "HAZARDOUS COMPONENTS" Section Above. No Components Are NTP, IARC or OSHA Listed (Carcinogenic).

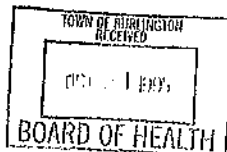
(Continued on next page)

N/D = Not Determined

N/A = Not Applicable

REACTIVITY DATA	STABILITY: Stable, w. Not Polymerize. CONDITIONS TO AVOID: Protect From Heat, Sparks, Flame & Possible Sources Of Ignition. Keep Containers Tightly Closed When Not In Use. Use Ventilation. MATERIALS TO AVOID: Keep From Strong Oxidizing Agents. Products Of Combustion: Carbon Monoxide & Carbon Dioxide.
SPILL OR LEAK	WARNING: Combustible Material. Eliminate All Ignition Sources. VENTILATE AREA. For Large Spills: Evacuate Area. Wear Appropriate Respiratory & Protective Equipment. Remove Leaking Containers To Open Air. Absorb On Clay Absorbent & Remove Outside For Safe Evaporation. Use Only Non Sparking Tools. VAPOR IS HEAVIER THAN AIR AND CAN TRAVEL TO REMOTE SOURCES OF IGNITION.
WASTE DISPOSAL	COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS All Surfactant Components Are Biodegradable. The Solvent Is Classified "Oil", Toxic To Aquatic Life. Do Not Discharge To Ponds, Streams Or Waterways (Oil). EPA/III Classified As Hazardous Waste (Ignitability) 40CFR 261.1. Incineration Or Evaporation Are The Usual Disposal Methods, With EPA Approval. Addition Disposal Information May Be Obtained From EPA At 800-424-9346. DOT Emergency Response Guidebook DOT 5800.3 #27. EPA Regulation 40 CFR 302 Reportable Quantity (RQ) Not Listed
SPECIAL PROTECTION	EYES: Use Splash Goggles Or Face Shield When Eye Contact May Occur. SKIN: BUNA N Rubber Gloves & Apron. Avoid Contact With Contaminated Clothing. INHALATION: Provide General Ventilation Or Explosion Proof Exhaust (60 FPM). OTHER: Use Self Contained Breathing Equipment When TLV Is Exceeded. ca. 29CFR 1910.134.
STORAGE AND HANDLING	Store In A Clean, Cool, Ventilated Area, Away From All Sources Of Ignition. Refer To NFPA 30 & OSHA 29CFR 1910.106 Storage & Handling Flamm. & Comb. Liq. Clean Up Spills At Once. Use Only Electrically Grounded Handling Equipment. Keep Container Tightly Closed When Not In Use. Protect Containers From Damage. Always Wear Protective Equipment. Wash Thoroughly After Handling. KEEP FROM CHILDREN. FOR COMMERCIAL USE ONLY. DO NOT USE IN HOUSEHOLD AREA.
SPECIAL INFORMATION	
COMBUSTIBILITY & VAPOR INHALATION SHOULD BE THE PRIME CONCERNS. Workers Should Not Be Permitted To Handle This Product Without Proper Training And Using Protective Equipment. Training BEFORE Exposure Is MANDATED By 29 CFR (OSHA) & State RTK. Avoid Prolonged Contact With Skin, Particularly Under Jewelry (Watches & Rings) & From Contaminated Clothing (Cuffs & Shoes). Containers Of This Product May Be Hazardous When "Emptied" Due To Residue & Vapors. Therefore ALL Hazard Precautions Given In This Data Sheet Must Be Observed. NEVER Use A Cutting Torch On An Emptied Container. NEVER USE AIR PRESSURE To Discharge Container Contents. Mechanical Spraying Of This Product May Increase The Hazards (Fire & Health). Read Label Directions Carefully. Always Handle So As To Avoid Splashing. Clothes & Absorbent Used To Apply Or Pick Up This Product Retain The Same Hazards Of Fire & Health As The Liquid Product. Take Care With Storage & Disposal. Safety Cans Are Recommended For Handling Small Amounts Of Product Outside Of Original Container. Ground All Transfer Containers Before Pouring. THE DATA ON THIS MSDS ARE GENERATED FROM CURRENT PROFESSIONAL PUBLICATIONS. USE EXPERIENCE AND ACTUAL LABORATORY TESTS. THIS PRODUCT IS A MIXTURE AND MSDS FILES ON THE INDIVIDUAL COMPONENTS ARE AVAILABLE ON REQUEST.	
Disclaimer of Liability As the conditions or methods of use are beyond our control, we do not assume any responsibilities and expressly disclaim any liability for any use of the material. Information contained herein is believed to be true and accurate but all statements or suggestions are made without any warranty, express or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.	





Product Name: SUPER GLOSS

Product No: 005.00

MATERIAL SAFETY DATA SHEET

Date Prepared: 12-28-89 Superseded: NEW By: JAD /BI

Company: SAVIN PRODUCTS CO., INC. Emergency Information:  
 214 HIGH STREET Information: 1-617-961-2744  
 RANDOLPH, MA 02368 Chemtrec: 1-800-424-9300

Section 1: GENERAL INFORMATION

Product	NFPA 704 Hazard Rating
Name: SUPER GLOSS	4=Severe Health (2)
Class: FLOOR FINISH	3=Serious Flammability (1)
Shipping Name: Not Regulated	2=Moderate Reactivity (1)
Hazard Class: N/A	1=Blight
UN/NA #: N/A	0=Minimal
	*=Chronic (see Sec. 7 Health Hazard)

Precautions: CAUTION: Causes eye irritation and may cause skin irritation with prolonged contact. May be harmful if swallowed. Prolonged exposure may produce headaches, and mucous membrane irritation.

Section 2: HAZARDOUS INGREDIENTS

Ingredient (CAS #)	%wt	OSHA PEL (ppm or µg/M3)	ACGIH TLV
1: Diethylene Glycol Monomethyl Ether (111-77-3)	7.0	N/A	N/A
2:			
3:			
4:			
5:			

Product Name: SUPER GLOSS

Product No: 005.00

SECTION 3: ENVIRONMENTAL DATA

SECTION 3A: SARA TITLE III INFORMATION

	EHS RQ (lbs) #1	EHS TPQ (lbs) #2	SEC 313 #3	313 Category #4	311/312 Categories #5
	1:	N/A	N/A	N/A	Yes
2:					
3:					
4:					
5:					

- \*1= Reportable Quantity of Extremely Hazardous Substance. Sec. 302.
- \*2= Threshold Planning Quantity, Extremely Hazardous Substance. Sec. 302.
- \*3= Toxic Chemical. Sec. 313.
- \*4= Required by Sec. 313 (40 CFR 372.42) used on Toxic Release Inventory Form.
- \*5= Hazard Category for SARA Sec. 311/312 Reporting.
 

Health Hazard:	Physical Hazard:
H-1= Immediate (acute)	P-3= Fire
H-2= Delayed (chronic)	P-4= Sudden Release of Pressure
	P-5= Reactive

Section 3B: CERCLA INFORMATION

EPA - Comprehensive Environmental Response, Compensation and Liability Act. Under EPA - CERCLA (Superfund) releases to air, land or water which exceed the reportable quantity must be reported to the National Response Center, 0 1-800-424-8802

The reportable quantity (RQ) for a release of this product is? N/A

Section 3C: RCRA INFORMATION

EPA - RCRA This product, if disposed of as shipped, is not a hazardous waste as specified in 40 CFR 261. Consult state and local officials for proper disposal method.

Product Name: SUPER GLOSS

Product No: 005.00

SECTION 4: PHYSICAL/CHEMICAL DATA

Boiling Point : 212 F 100 C @1ATM %Volatile/Volume: 70 %  
Vapor Density : 0.7X Air Wt/Ballon : 8.50 lbs./gal.  
Pouring Point : N/A F C Molecular Weight: N/A  
Specific Gravity : 1.032 @ 20' C Vapor Pressure : 17 mm Hg @ 20' C  
Melt/Freeze Point: (32'F (0' C Solubility : Disperses  
Evaporation Rate : approx. H2O pH( as is ): 8.50

Appearance & Odor: Thin, opaque, off-white emulsion with a mild odor.

SECTION 5: FIRE and EXPLOSION DATA

Flash point: ) 200 F Test: Tag Closed Cup (ASTM D-56)  
Explosive limits: LEL: N/A UEL: N/A

Extinguishing Media: Use water (flood with water), dry chemical, CO2 or "alcohol" foam.

Unusual Fire and Explosion Hazards: Combustion may produce noxious and irritating gases which will require fresh air source in fire fighting.

Special Fire Fighting Procedures: Firefighters should be equipped with self-contained breathing apparatus and turnout gear.

SECTION 6: REACTIVITY DATA

Stability: Stable Hazardous Polymerization: Does not occur.

Incompatibility (Materials to avoid): Strong acids, strong oxidizers, strong alkalis, heat and fire.

Hazardous Decomposition Products: Carbon Monoxide, Carbon Dioxide and other toxic gases.

Product Name: SUPER GLOSS

Product No: 005.00

SECTION 7: HEALTH HAZARD (ACUTE/CHRONIC)

Effects of Overexposure:

Carcinogenicity: IARC: No OSHA: No  
NTP: No

Eyes: Causes eye irritation.

Skin: May cause skin irritation with prolonged contact.

Inhalation: Prolonged exposure may produce headache and mucous membrane irritation.

Ingestion: May result in nausea and gastric distress.

Chronic Effects and Medical Conditions: None known.

SECTION 8: EMERGENCY and FIRST AID

Eyes: Flush with copious amounts of water until all material is removed. If irritation develops or persists, Get Medical Attention.

Skin: Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.

Inhalation: Remove to fresh air. If breathing is difficult, oxygen may be given, preferably with a physician's advice. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

Ingestion: If swallowed, give several glasses of water but do not induce vomiting. If vomiting does occur, give fluids again. Do not give anything by mouth to an unconscious or convulsing person. Get medical attention.

SECTION 9: PERSONAL PROTECTIVE MEASURES

Eye Protection: Avoid splashing. Wear safety goggles if necessary. Contact lenses must not be worn.

Protective Gloves: Depending on conditions of use, protective gloves may be necessary.

Respiratory Protection: None required under normal handling conditions.

Product Name: SUPER GLOSS

Product No: 005.00

Ventilation: Either local exhaust or general room ventilation is usually required.

Other Protective Equipment: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

**SECTION 10: SPECIAL PRECAUTIONS**

Handling and Storage: Handle according to good manufacturing and warehousing practices. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet facilities. Promptly remove soiled clothing and wash thoroughly before reuse. Store only in tightly closed, properly vented containers away from heat, sparks, open flame or strong acids.

**Spills and Leaks:**

Small Spills: Soak up small spills with inert solids. Use suitable disposal container.

Large Spills: Limit access to area. Wear NIOSH/MSHA approved respirator (self-contained breathing apparatus preferred). Dike and contain spill with inert material (sand, earth, etc.) and transfer the liquid and solid separately to containers for recovery or disposal. Keep spill out of sewers and open bodies of water. CAUTION: Floor may become slippery.

Waste Disposal: Incinerate or bury in a licensed facility. Do not discharge into waterways or sewer systems without the proper authority.

Other Precautions: All labeled precautions must be observed when handling, storing, and transporting empty containers due to product residues. Do not reuse this container unless it is professionally cleaned and reconditioned.

Neither this data sheet nor any statement contained herein grants or extends any license, express or implied, in connection with patents issued or pending which may be the property of the manufacturer or others. The information in this data sheet has been assembled by the manufacturer or his agent based on its own studies and on the work of others. Neither the manufacturer nor his agent makes any warranties, express or implied, as to the accuracy, completeness, or adequacy of the information contained herein. Neither the manufacturer nor his agent shall be liable (regardless of fault) to the vendee, the vendee's employees, or anyone for any direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy, or furnishing of such information.

**Material Safety Data Sheet**

The information and data contained herein are believed to be correct. However, Viking Mfg. Co. does not warrant either expressly or by implication the accuracy thereof.

Date last revised: 6/1/90

Prepared by Walter Zwible Scott Herzog

I. General Information		
Chemical Name & Synonyms METHYL ALCOHOL, METHANOL, WOOD ALCOHOL	Trade Name & Synonyms DUPLICATING FLUID	
Chemical Family ALCOHOL	Formula CH <sub>3</sub> OH	
Proper DOT Shipping Name METHYL ALCOHOL	UN 1230	DOT Hazard Classification FLAMMABLE LIQUID
Manufacturer VIKING MFG. CO.	Manufacturer's Phone Number (508)653-0940	
Manufacturer's Address 68 MIDDLESEX AVE., NATICK, MA. 01760	Chemical Phone Number 1-800-424-9300	
II. Ingredients		
Principal Hazardous Components	Percent	Threshold Limit Value (units)
METHYL ALCOHOL .. CAS No. 67-56-1	99+%	200 ppm
ETHYLENE GLYCOL MONOBUTYL ETHER CAS No. 111-76-2	<1%	50 ppm
TOWN OF PLIMMOUTH RECEIVED DEC 1 1990		
<b>BOARD OF HEALTH</b>		
III. Physical Data		
Boiling Point (°F) 148°F	Specific Gravity (H <sub>2</sub> O = 1)	0.791
Vapor Pressure (mm Hg.) 96 @ 20°C	Percent Volatile By Volume (%)	100%
Vapor Density (Air = 1) 1.11	Evaporation Rate (_____ = 1) butyl acetate	51
Solubility in Water complete	pH	8
Appearance & Odor Clear liquid, slight alcohol odor.		
IV. Fire & Explosion Hazard Data		
Flash Point (Test Method) Tag closed cup 52°F	Auto Ignition Temperature 725°F	
Flammable Limits	LEL 6%	UEL 36.5%
Extinguishing Media Water Spray, Alcohol Foam, CO <sub>2</sub> , Dry Chemical, Any Class B Extinguishing Agent	Special Fire Fighting Procedures Full protective clothing & self contained breathing apparatus should be worn when exposed to vapors or products of combustion.	
Unusual Fire & Explosion Hazards N/A	<i>Bill Koutoulis</i>	



### V. Health Hazard Data

OSHA Permissible Exposure Limit	200 ppm	ACGIH Threshold Limit Value	200 ppm
Carcinogen - NTP Program	NA	Carcinogen - IARC Program	NA
3. Items of Exposure weakness, fatigue, dizziness, headaches, nausea, gastrointestinal			

disturbances & some degree of inebriation.

Medical Conditions Aggravated By Exposure

EFFECTS MAY BE CUMULATIVE

Primary Route(s) of Entry Methanol is harmful by inhalation of the vapor, ingestion of the liquid, or by prolonged or repeated contact of the liquid or vapor with the skin.  
Emergency First Aid POISON: Call a physician. If swallowed, induce vomiting immediately by giving two glasses of water & sticking finger down throat. IF INHALED, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. REMOVE material from eyes, skin & clothing.

### VI. Reactivity Data

Stability	X	Unstable Stable	Conditions To Avoid
Incompatibility			Materials To Avoid Material which react with active hydrogen. Anhydrides, sodium, organometallic cmpds. Oxidizing Mat.
Hazardous		May Occur	Conditions to Avoid Corrosive to lead & aluminum
Polymerization	X	Will Not Occur	
Hazardous Decomposition Products Can form carbon monoxide during incomplete combustion.			

### VII. Environmental Protection Procedures

Spill Response Keep people away. Remove source of ignition. Shut off leak if without risk. Wear self-contained breathing apparatus & full protective clothing to enter spill area. Dike & pump into salvage tank. Use water spray to knock down vapors. Run-off to sewers may create health & explosion hazards; notify fire; health & pollution control authorities.

Waste Disposal Method

Waste should be burned in approved waste disposal incinerators.

### VIII. Special Protection Information

Eye Protection	Wear chemical safety glasses	Skin Protection	Wear impervious gloves & protective clothing
Respiratory Protection (Specific Type)	Self contained breathing apparatus	Ventilation Recommended	Local exhaust to control exposure levels below airbourne limits.
Other Protection	NA		

### IX. Special Precautions

Hygienic Practices In Handling & Storage

Store in closed system if possible. Keep away from open flames and heat.

Precautions For Repair & Maintenance Of Contaminated Equipment

NA

Other Precautions DO NOT TAKE INTERNALLY. Wash thoroughly after handling. DANGER! FLAMMABLE. MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED. CANNOT BE MADE NON-POISONOUS. HARMFUL IF INHALED.

Mr. K,  
 Thanks for your help!  
 Alan McKe

Material Safety Data Sheet

TOWN OF HUDON RATION  
 RECEIVED  
 OCT 31 1995  
 BOARD OF HEALTH

SECTION I - IDENTITY

HIGH SPEED SPRAY BUFF #60  
 Hazardous - NO

PERMA Incorporated  
 605 Springs Road  
 Bedford, MA. 01730

Health	1
Flammability	1
Reactivity	0
Personal Protection	3

Telephone Number for Information  
 508/567-5161  
 Date Prepared  
 01/16/91  
 Prepared By A. Vadasz

4 = Most Hazardous  
 Emergency Phone Number  
 1-800-255-3924 or Felicon Center

SECTION II - HAZARDOUS INGREDIENTS

Hazardous Components CAS Reg#	PEL ppm	TWA ppm	STEL	Other Limits	% (opt)
Stoddard Solvent CAS# 8052 - 41-3	.500	100			< 25

\*LISTED CHEMICAL SUBJECT TO REPORTING REQUIREMENT OF SCT.313 OF TITLE III.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling point	- 212F	Specific Gravity (Water=1)	- 0.96
Vapor Pressure (mm Hg)	- 1.5	Melting Point	- N.A.
Vapor Density (air=1)	- 4.5	Evaporation Rate (Butyl Acetate=1)	- 0.06
Viscosity (cPS)	- NA	Decomposition Temperature	- 450F
Auto Ignition Temp.	- NA.	Solubility in Water	- MISCIBLE
pH - N.A. +/-			
Appearance and Odor	- LIGHT MILKY LIQUID, SLIGHT SOLVENT ODOR		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point - TCC 160  
 Flammable Limits  
 LEL - N.A. UEL - N.A.

Extinguishing media - WATER SPRAY, CARBON DIOXIDE, FOAM, DRY CHEMICAL

Fire Fighting Procedure - COOL CONTAINERS WITH WATER, USE SELF CONTAINED BREATHING APPARATUS. BURNING PRODUCT IS TOXIC.

Fire and Explosion Hazards - CLOSED CONTAINERS MAY BURST WHEN EXPOSED TO EXTREME HEAT. ISOLATE FROM HEAT, SPARKS AND OPEN FLAME.

SECTION V - REACTIVITY DATA

Stability - STABLE  
 Conditions to Avoid HEAT, SPARKS, OPEN FLAME AND FIRE

Incompatibility - STRONG OXIDIZING AGENTS.

Hazardous Decomposition or Byproduct - THERMAL DECOMPOSITION MAY YIELD CARBON MONOXIDE AND DIOXIDE

Hazardous Polymerization - WILL NOT OCCUR

Conditions to Avoid - N.A.

The information herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or results to be obtained from use thereof.  
 Essentially similar to OSHA form # 174

## SECTION VI - HEALTH HAZARD DATA

Routes of entry:  
 Inhalation - YES      Skin - NO      Ingestion - YES

Health Hazards-Acute: CAUSES EYE IRRITATION, DRYING OF SKIN, DIZZINESS  
 CHRONIC: RESPIRATORY TRACT IRRITATION, DERMATITIS  
 TARGET ORGANS: SKIN, EYES, RESPIRATORY SYSTEM

Carcinogenicity: NO  
 NTP - N.A.      IARC Monographs - N.A.      OSHA Regulated - YES

Signs and Symptoms of Exposure - EXCESSIVE INHALATION MAY CAUSE HEADACHE,  
 DIZZINESS

Medical Conditions Aggravated - DERMATITIS  
 BRONCHO-PULMONARY PROBLEMS

Emergency and First Aid Procedures -EYESKIN CONTACT: BLOT WITH TOWEL, FLUSH  
 WITH LARGE QUANTITIES OF WATER. INHALATION: REMOVE TO FRESH AIR.  
 INGESTION: INDUCE VOMITING, GET IMMEDIATE MEDICAL ATTENTION

## SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled - DIKE AND  
 COLLECT MATERIAL INTO METAL CONTAINER. USE NON-SPARKING TOOLS. USE WATER  
 OR FOAM SPRAY TO LESSEN FIRE HAZARD. USE ABSORBENT FOR SMALL SPILL.

Waste Disposal Method - RECYCLE, INCINERATE, OR USE HAZARDOUS WASTE MANAGE-  
 MENT FACILITY FOR DISPOSAL ACCORDING TO STATE AND FEDERAL REGULATIONS.  
 EPA WASTE NO. D001

Precautions to be Taken in Handling and Storage - COMBUSTIBLE, KEEP  
 AWAY FROM HEAT, SPARKS AND OPEN FLAME. USE ADEQUATE VENTILATION, AVOID  
 PROLONGED OR REPEATED CONTACT.

Other Precautions - STORE IN SECURE AREA. DISPOSE OF EMPTY CONTAINERS SAFELY  
 KEEP OUT OF REACH OF CHILDREN

## SECTION VIII - CONTROL MEASURES

Respiratory Protection - NOT REQUIRED WITH NORMAL USE

Ventilation      Local Exhaust -RECOMMENDED  
                   Mechanical -ASSURE FRESH AIR CIRCULATION  
                   Special -N.A.  
                   Other -EYE WASH AND SAFETY SHOWER

Protective Gloves - REQUIRED: RUBBER, PLASTIC  
 Eye Protection - REQUIRED: SAFETY GLASSES  
 Other Protection - APRON OR SHOP COAT RECOMMENDED

Work/Hygiene Practices - DO NOT EAT/DRINK OR SMOKE NEXT TO MATERIAL.  
 WASH HANDS/FACE AFTER WORK.

## SECTION IX - TRANSPORTATION

49 CFR

Unit Cont. - 55, 30, 5, 1 GAL. PLASTIC CONT      Report Qty. (Lbs) - NA  
 OSHA - CLASS II, COMBUSTIBLE LIQUID      Labels - NONE  
 DOT - COMBUSTIBLE LIQUID-EXEMPT PER 49 CFR 173.118A  
 UN - NOT REGULATED

DOT: COMPOUND, CLEANING, LIQUID, COMBUSTIBLE LIQUID NA1993  
 UN: NOT REGULATED

Vendor assumes no responsibility for injury to vendee or third person proxima-  
 tely caused if reasonable safety procedures are not adhered to as stipulated in  
 the data sheet. Additionally, vendor assumes no responsibility for injury to  
 vendee or third persons proximately caused by abnormal use of the material even  
 if reasonable safety procedures are followed. Further more, vendee assumes the  
 risk in use of the material.

## Material Safety Data Sheet

## SECTION I - IDENTITY

#212 PENETR. FLOOR SEALER  
 Hazardous -YESPERMA Incorporated  
 605 Springs Road  
 Bedford, MA. 01730

Health	1
Flammability	2
Reactivity	0
Personal Protection	B

Telephone Number for Information  
 508/667-5161  
 Date Prepared  
 01/14/91  
 Prepared By A.Vadass

4 = Most Hazardous  
 Emergency Phone Number  
 1-800-255-3924 or Poison Center

## SECTION II - HAZARDOUS INGREDIENTS

Hazardous Components CAS Reg#	REL ppm	SHA ppm	STEL	Other Limits	% (opt)
Stoddard Solvent CAS# 8052 - 41 - 3	500	100			< 75

\*LISTED CHEMICAL SUBJECT TO REPORTING REQUIREMENT OF SCT.313 OF TITLE XIX.

## SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling point	- 320F	Specific Gravity(Water=1)	- 0.87
Vapor Pressure (mm Hg)	- 2.0	Melting Point	- N.A.
Vapor Density (air=1)	- 4.5	Evaporation Rate(Butyl Acetate=1)	- 0.08
Viscosity (CFS)	- NA	Decomposition Temperature	- NA.
Auto Ignition Temp.	- NA	Solubility in Water	-NEGLECTIBLE
pH - N.A. +/-			
Appearance and Odor	- Clear amber liquid, solvent odor		

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point - TCC 140 F      Flammable Limits  
 LEL - 0.7      UEL - 6.0

Extinguishing media -CO2, FOAM, DRY CHEMICAL

Fire Fighting Procedure - COOL CONTAINERS WITH WATER, USE SELF-CONTAINED  
 BREATHING APPARATUS, BURNING PRODUCT IS TOXIC

Fire and Explosion Hazards - CLOSED CONTAINERS MAY BURST WHEN EXPOSED TO  
 EXTREME HEAT. ISOLATE FROM HEAT, SPARKS, OPEN FLAME.

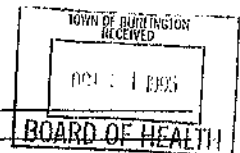
## SECTION V - REACTIVITY DATA

Stability -STABLE  
 Conditions to Avoid HEAT, SPARKS, OPEN FLAME

Incompatibility - STRONG OXIDIZING AGENTS.  
 Hazardous Decomposition or Byproduct - THERMAL DECOMPOSITION MAY YIELD  
 CARBON MONOXIDE

Hazardous Polymerization - WILL NOT OCCUR  
 Conditions to Avoid - N.A.

The information herein is based on data considered accurate. However, no  
 warranty is expressed or implied regarding the accuracy of these data or results  
 to be obtained from use thereof.  
 Essentially similar to OSHA form # 174





SECTION VI - HEALTH HAZARD DATA		
Routes of entry: Inhalation - YES	Skin - NO	Ingestion - YES
Health Hazards-Acute: CAUSES EYE IRRITATION, DRYING OF SKIN, DIZZINESS CHRONIC: RESPIRATORY TRACT IRRITATION, DERMATITIS TARGET ORGANS: SKIN, EYES, RESPIRATORY SYSTEM		
Carcinogenicity: NO NTP - N.A. IARC Monographs - N.A. OSHA Regulated - YES		
Signs and Symptoms of Exposure - IRRITATION AND REDNESS OF SKIN, DIZZINESS		
Medical Conditions Aggravated - DERMATITIS BRONCHO-PULMONARY PROBLEMS		
Emergency and First Aid Procedures - EYE/SKIN CONTACT: BLOT WITH TOWEL, FLUSH WITH LARGE QUANTITIES OF WATER. INHALATION: REMOVE TO FRESH AIR. INGESTION: INDUCE VOMITING, GET IMMEDIATE MEDICAL ATTENTION		
SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE		
Steps to be Taken in Case Material is Released or Spilled - DIKE AND COLLECT MATERIAL INTO METAL CONTAINER. USE NON-SPARKING TOOLS. USE WATER OR FOM SPRAY TO LESSEN FIRE HAZARD. USE ABSORBENT FOR SMALL SPILL.		
Waste Disposal Method - RECYCLE, INCINERATE, OR USE HAZARDOUS WASTE MANAGE- MENT FACILITY FOR DISPOSAL ACCORDING TO STATE AND FEDERAL REGULATIONS. EPA WASTE NO. D001		
Precautions to be Taken in Handling and Storage - COMBUSTIBLE, KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. USE ADEQUATE VENTILATION. AVOID PROLONGED OR REPEATED CONTACT.		
Other Precautions - STORE IN SECURE AREA. DISPOSE OF EMPTY CONTAINERS SAFELY KEEP OUT OF REACH OF CHILDREN		
SECTION VIII - CONTROL MEASURES		
Respiratory Protection - USE SELF-CONTAINED BREATHING APPARATUS FOR CONCENTRATIONS ABOVE THRESHOLD LIMIT VALUE.		
Ventilation	Local Exhaust	-RECOMMENDED
	Mechanical	-REQUIRED; EXCHANGE EVERY 10 -15 MIN.
	Special	-BLOW AIR INTO PITS AND DEPRESSIONS
	Other	-ASSURE FRESH AIR CIRCULATION
Protective Gloves	- REQUIRED: RUBBER, PLASTIC	
Eye Protection	- REQUIRED: SAFETY GLASSES	
Other Protection	- APRON OR SHOE COAT RECOMMENDED	
Work/Hygiene Practices - DO NOT EAT/DRINK OR SMOKE NEXT TO MATERIAL. WASH HANDS/FACE AFTER WORK.		
SECTION IX - TRANSPORTATION 49 CFR		
Unit Cont. - 55, 30, 5, 1 GAL. METAL CONT.	Report Qty. (Lbs) - NA.	
OSHA - CLASS II, COMBUSTIBLE LIQUID	Labels - UN-FLAMMABLE LIQ	
DOT - COMBUSTIBLE LIQUID-EXEMPT PER 49 CFR 173.118A		
UN - HAZARDOUS /X/ FLAMMABLE LIQUID-PACKAGING GROUP III		
DOT-PAINT, COMBUSTIBLE LIQUID, UN1263 UN- HAZARDOUS /X/ PAINT, 3 UN1263		

Vendor assumes no responsibility for injury to vendee or third person proximately caused if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Further more, vendee assumes the risk in use of the material.

U.S. DEPARTMENT OF LABOR Occupational Safety and Health Administration			
<b>MATERIAL SAFETY DATA SHEET</b>		TOWN OF NORTHAMPTON RECEIVED MAY 1 1982 <b>BOARD OF HEALTH</b>	
Required under USDL Safety and Health Regulations for Ship Repairing, Shipbuilding, and Shipbuilding (29 CFR 1915/1916, 1917)			
SECTION I			
MANUFACTURER'S NAME/ MANUFACTURED FOR: MASS SANITARY SUPPLY CO.		EMERGENCY TELEPHONE NO.: 617-769-4415	
ADDRESS (Name, Street, City, State, and Zip Code): 664 PLEASANT ST. NORWOOD, MA. 02062			
CHEMICAL NAME AND SYNONYMS PINK LIQUID HAND SOAP		CHEMICAL FAMILY N/A	
FORMULA N/A		FORMULA 4-32	
SECTION II - HAZARDOUS INGREDIENTS			
PAINTS, PRESERVATIVES, SOLVENTS	%	TLV (Units)	ALLDYS AND METALLIC COATINGS
PIGMENTS			BASE METAL
CATALYST			ALLOYS
VEHICLE			METALLIC COATINGS
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX
ADDITIVES			OTHERS
OTHERS			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES			% TLV (Units)
NONE			
A mild soap for the washing of hands.			
SECTION III - PHYSICAL DATA			
BOILING POINT (F.)	211	SPECIFIC GRAVITY (H <sub>2</sub> O=1)	1.009
VAPOR PRESSURE (mm Hg.)	n/a	PERCENT VOLATILE BY VOLUME (%)	
VAPOR DENSITY (AIR=1)	n/a	EVAPORATION RATE (100% = 1) About	
SOLUBILITY IN WATER	soluble		
APPEARANCE AND ODOR			
SECTION IV - FIRE AND EXPLOSION HAZARD DATA			
FLASH POINT (ASTM D568)	Non-Flammable	FLAMMABLE LIMITS	LC <sub>50</sub> LEL UEL
EXTINGUISHING MEDIA	Non-Flammable	Non-Flammable	
SPECIAL FIRE FIGHTING PROCEDURES Exercise caution when fighting any chemical fire. Respiratory protection is essential.			
UNUSUAL FIRE AND EXPLOSION HAZARDS NONE			

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	Non-Volatile
EFFECTS OF OVEREXPOSURE	Slight eye irritation upon direct contact.
EMERGENCY AND FIRST AID PROCEDURES	EYE: Even though product is not toxic, hazardous, or irritating, good first aid practices should be adhered to. In case of direct eye contact, flush with plenty of water for at least 15 minutes. If irritation persists, call a physician.

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE	CONDITIONS TO AVOID	
	STABLE	X	
INCOMPATIBILITY (Materials to Avoid)	Strong oxidizing agents.		
HAZARDOUS DECOMPOSITION PRODUCTS	Unknown		
HAZARDOUS POLYMERIZATION	MAY OCCUR	CONDITIONS TO AVOID	
	WILL NOT OCCUR	X	

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	Flush to Sewer with water
WASTE DISPOSAL METHOD	Dispose of this product should be in adherence with the above described (or similarly approved) disposal procedure. All waste disposal should be in accordance with Federal, State, and Local Regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) None required			
VENTILATION	LOCAL EXHAUST	SPECIAL	
Normal	MECHANICAL (General)	OTHER	
PROTECTIVE GLOVES	None Required	EYE PROTECTION	None Required
OTHER PROTECTIVE EQUIPMENT	None Required		

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Normal inside storage
OTHER PRECAUTIONS	Exercise caution when handling and storing chemical substances.

SECTION V -- Reactivity Data			
Stability	Unstable Stable XX	Conditions to Avoid	Do not mix with other chemical. Do not pour water into acid.
Incompatibility (Materials to Avoid)	Any Chemicals		
HAZARDOUS DECOMPOSITION OR BYPRODUCTS	None		
HAZARDOUS MAY OCCUR POLYMERIZATION	Will Not Occur XX	Conditions to Avoid	N/A

SECTION VI -- Health Hazard Data			
Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
Health Hazards (Acute and Chronic) Corrosive to all body tissues. Inhalation of mist in excessive amount may cause serious lung damage. Contact with the eyes may result in total loss of vision. Skin contact may produce severe necrosis. Ingestion may cause severe injury and death. Frequent skin contact with dilute solutions has caused dermatitis.			
Carcinogenicity: N/A	MTP?	IARC MONOGRAPHS?	OSHA Regulated?
SIGNS AND SYMPTOMS OF EXPOSURE Tissue Destruction upon exposure & Dehydration. May cause third degree Burns.			
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NONE DETERMINED			

EMERGENCY AND FIRST AID PROCEDURES: Eye Contact: Immediately flush with large quantities on water for 15 minutes. See physician immediately. Skin contact: Flush with large quantities of water. See Physician immediately. If ingested: Drink large quantities of water. DO NOT INDUCE VOMITING. Note to physician: Treat as a highly corrosive.			
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SECTION VII -- Precautions for Safe Handling and Use	
Steps to Be Taken in Case Material is Released or Spilled	
Contaminated area should be thoroughly flushed down with large amount of water. A soda ash or lime spread over the area to neutralize residual acidity.	
Waste Disposal Method: Store in area where spills or leaks can be contained and disposed of properly. Neutralize with lime or soda ash and flush to nearest drain.	
Precautions to Be Taken in Handling and Storing	
Store in cool place away from combustible material, avoid contact with skin and eyes.	
Other Precautions	
DO NOT Store water can get into.	

SECTION VIII -- Control Measures			
Respiratory Protection (Specify Type)			
Ventilation	Local Exhaust	XX	Special N/A
Mechanical (General)			
Protective Gloves	Eye Protection		
Rubber gloves should be worn	Safety goggles should be worn		
Other Protective Clothing or Equipment			
Safety showers, eye baths, face shields, rubber aprons & shoes.			
Work/Hygenic Practices			
EXTRA precautions should be taken with this product.			

Material Safety Data Sheet

Conforms to OSHA Hazard Communication Standard 29CFR 1910 1200

The customer receiving this Material Safety Data Sheet is urged to study it carefully to become aware of hazards of the product involved, in the interest of safety you should (1) notify your employees, agents and contractors of the information on this sheet, (2) furnish a copy of your customers for the product and, (3) request your customers to inform their employees and customers as well.

IDENTITY (AS USED ON LABEL AND LIST) Sulfuric Acid Drain Opener

NOTE: Blank Spaces are not permitted if any item is not applicable or no information is available, the space must be marked to indicate that.

SECTION I  
 Manufacturer's Name: WEPAC CORPORATION  
 Emergency Telephone Number: (704) 334-5781  
 Address (Number, Street, City, State and ZIP CODE): P.O. Box 36803, Charlotte, NC 28236  
 Telephone Number for Information: (704) 334-5781  
 Date Prepared: October 27, 1989

SECTION II -- Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name)	OSHA PEL	ACGIH TLV	OSHA Limit Recommended	SI (ppm)
Sulfuric Acid	CAS#7664939	1mg/m <sup>3</sup>	934	

SECTION III -- Physical/Chemical Characteristics

Boiling Point: 529°F	Specific Gravity (H <sub>2</sub> O = 1): 1.8354
Vapor Pressure (mm Hg.): .0036mm	Melting Point: N/A
Vapor Density (AIR = 1): 3.38	Evaporation Rate (Butyl Acetate = 1): N/A
Solubility in Water: Complete ph Strong Acid	Appearance and Odor: Red liquid; no odor

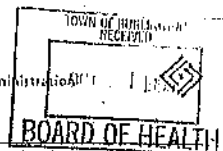
SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): None	Flammable Limits: None	LEL	UEL
Extinguishing Media: Dry chemical, Carbon dioxide, and water fog.	Special Fire Fighting Procedures: Do not allow water to enter storage containers as a violent reaction can occur.		

Unusual Fire and Explosion Hazards: Acid will not burn, but can start fires with organic materials, nitrates, carbids chlorates, and metallic powders.

Material Safety Data Sheet  
 May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be revised for specific requirements.

U.S. Department of Labor  
 Occupational Safety and Health Administration  
 (Non-Mandatory Form)  
 Form Approved  
 OMB No. 1718-0072



IDENTITY (As Used on Label and List) Pynol

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

SECTION I  
 Manufacturer's Name: Spectrox Corporation  
 Address (Number, Street, City, State, and ZIP Code): 70 Bichborn Street, Brighton, MA 02135  
 Emergency Telephone Number: 254-2800  
 Telephone Number for Information: 254-2800  
 Date Prepared: May 1986  
 Signature of Preparer (optional)

SECTION II -- Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name)	OSHA PEL	ACGIH TLV	OSHA Limit Recommended	SI (ppm)
Isopropyl Alcohol, CAS #67-63-0	400ppm	400ppm		f
Quaternary Ammonium Compound, CAS # 139-07-1, 139-08-2, 122-16-9, 107-41-5, 7732-18-5.	None established			4

SECTION III -- Physical/Chemical Characteristics

Boiling Point: 212 F	Specific Gravity (H <sub>2</sub> O = 1): 1.01
Vapor Pressure (mm Hg.): Water	Melting Point:
Vapor Density (AIR = 1): Water	Evaporation Rate (Butyl Acetate = 1): Water
Solubility in Water: Complete	Appearance and Odor: Brown colored solution; mild odor

SECTION IV -- Fire and Explosion Hazard Data

Flash Point (Method Used): None	Flammable Limits: N/A	LEL	UEL
Extinguishing Media: N/A	Special Fire Fighting Procedures: N/A		

Unusual Fire and Explosion Hazards: N/A



Stability	Flammable	Conditions to Avoid
	Stable	X N/A

Incompatibility (Materials to Avoid) **Strong oxidizers**

Hazardous Decomposition or Byproducts **N/A**

Hazardous Polymerization	May Occur	Conditions to Avoid
	Will Not Occur	

**Section VI - Health Hazard Data**

Route(s) of Entry:	Inhalation?	Res?	Skin?	Res?	Ingestion?	Res?
		No		No		No

Health Hazard (Acute and Chronic) **N/A**

Chlorophenyls	NTP	No	IRAC Monographs?	No	OSHA Required?	No
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Signs and Symptoms of Exposure **Eye and skin irritant.**

Medical Conditions Greatly Aggravated by Exposure **N/A**

Emergency and First Aid Procedures **Eyes: Flush with large amounts of water, seek medical assistance. Skin: Wash well with soap and water. If ingested - DO NOT INDUCE VOMITING. SEE IMMEDIATE MEDICAL ATTENTION.**

**Section VII - Precautions for Safe Handling and Use**

Steps to be Taken in Case Material is Released or Spilled **Flush with water, mop up and hold for disposal.**

Waste Disposal Method **Any method in accordance with applicable laws.**

Precautions to be Taken in Handling and Storing **Keep container closed when not in use. Avoid contact**

**with eyes. Do not store at elevated temperatures for extended periods of time.**  
Other Precautions **Gloves and eye protection is recommended.**

**Section VIII - Control Measures**

Respiratory Protection (Specify Type) **Use in well ventilated areas.**

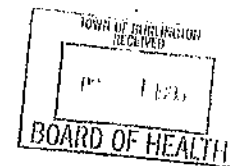
Ventilation	Local Exhaust	Special
	Mechanical (General)	

Protective Gloves **Recommended** Eye Protection **Recommended**

Other Protective Clothing or Equipment **N/A**

Work Hygiene Practices **N/A**

CADILLAC PLASTICS & CHEMICAL  
130 CANAL ST  
HALEDEN, MA 02148  
TOBB ST. GERHATH



DOW CORNING CORPORATION  
MATERIAL SAFETY DATA SHEET

MATL NAME: TRADE MATE(TM) PLSTC, MTL, AND HSNRY SLNT, CLEAR  
EMERGENCY TELEPHONE NO. (517) 496-5900

**SECTION I - GENERAL INFORMATION**

MANUFACTURER'S NAME: DOW CORNING CORP. PRODUCT INFORMATION NO. (517) 496-6000  
ADDRESS: SOUTH SAGINAW ROAD, MIDLAND MI 48686

PROPER SHIPPING NAME(49CFR 172.101): NONE  
D.O.T. HAZARD NAME(49CFR 172.101): NONE  
D.O.T. ID NO(49CFR 172.101): NONE  
D.O.T. HAZARD CLASS(49CFR 172.101): NONE  
RCRA HAZARD CLASS(40CFR 261)(IF DISCARDED): NONE  
E.P.A. PRIORITY POLLUTANTS(40CFR 122.93): NONE  
NFPA - NATIONAL FIRE PROTECTION ASSOCIATION - 704  
HEALTH (NFPA): 1 FLAMMABILITY (NFPA): 1 REACTIVITY (NFPA): 0  
CAS NO: MIXTURE DOW CORNING WARNING CODE: NOT USED  
GENERIC DESCRIPTION: SILICONE

**SECTION II - HAZARDOUS INGREDIENTS AS DEFINED IN 29 CFR 1910.1200 (CARCINOGENS IDENTIFIED WITH AN ASTERISK \*)**

CAS NO.	INGREDIENT	WT. %	EXPOSURE LIMITS
007631859	SILICA, AMORPHOUS	11	OSHA PEL: TWA 6 MG/M3 ACGIH TLV: TWA 10 MG/M3 TOTAL DUST
PROPRIETARY	PROPRIETARY INGREDIENTS	4	DOW CORNING GUIDE: TWA 20 PPM. SEE COMMENTS 1 AND 2.

COMMENT 1: OBSERVE EXPOSURE LIMITS FOR METHYL ALCOHOL, FORMED DURING CURING ON EXPOSURE TO WATER OR HUMID AIR. OSHA PEL-SKIN AND ACGIH TLV-SKIN BOTH TWA 200 PPM, STEL 250 PPM.

COMMENT 2: DOW CORNING GUIDE BASED ON METHYLETHYLKETOXINE, FORMED DURING CURING ON EXPOSURE TO WATER OR HUMID AIR. NO OSHA PEL OR ACGIH TLV ESTABLISHED.

DOW CORNING CORPORATION  
MATERIAL SAFETY DATA SHEET

MATL NAME: TRADE MATE(TM) PLSTC, MTL, AND MSHRY SLNT, CLEAR

-----  
SECTION III - EFFECTS OF OVEREXPOSURE

EYE: DIRECT CONTACT IRRITATES SLIGHTLY TO MODERATELY WITH REDNESS AND SWELLING.  
SKIN: A SINGLE SHORT EXPOSURE (LESS THAN 24 HOURS) MAY IRRITATE. REPEATED PROLONGED CONTACT (24 TO 48 HOURS) MAY IRRITATE MODERATELY. REPEATED CONTACT MAY CAUSE ALLERGIC SKIN SENSITIZATION.  
INHALATION: VAPOR OVEREXPOSURE MAY INJURE BLOOD, AND MAY IRRITATE EYES, NOSE AND THROAT. VAPORS MAY INJURE NERVOUS SYSTEM. THE DEGREE OF INJURY WILL DEPEND ON THE CONCENTRATION AND DURATION OF EXPOSURE. HIGH CONCENTRATIONS FOR REPEATED PROLONGED EXPOSURES MAY CAUSE ALLERGIC SENSITIZATION.  
ORAL: SMALL AMOUNTS TRANSFERRED TO THE MOUTH BY FINGERS DURING USE, ETC., SHOULD NOT INJURE. SWALLOWING LARGE AMOUNTS MAY INJURE SLIGHTLY.

COMMENTS: ANIMAL STUDIES WITH METHYLETHYLKETOXIME, FORMED DURING CURING, INDICATE DIRECT CONTACT WITH UNCURED SEALANT MAY POSE A RISK OF ALLERGIC SKIN SENSITIZATION. CURED SEALANT IS NONHAZARDOUS. NO INJURY FROM DUST SHOULD OCCUR DURING REASONABLE USE. IF USE CREATES RESPIRABLE PARTICLES, SOME RESPIRATORY SYSTEM INJURY MAY OCCUR.

-----  
SECTION IV - EMERGENCY AND FIRST AID PROCEDURES

EYES: IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION.  
SKIN: WIPE OFF AND FLUSH WITH WATER. GET MEDICAL ATTENTION IF REACTION DEVELOPS.  
INHALATION: REMOVE TO FRESH AIR. GET MEDICAL ATTENTION IF ILL EFFECTS PERSIST.  
ORAL: GET MEDICAL ATTENTION.  
COMMENT: NONE.

-----  
SECTION V - FIRE AND EXPLOSION DATA

FLASH POINT (METHOD USED): CLOSED CUP ABOVE 212F/100C.  
AUTOIGNITION: NOT DETERMINED  
FLAMMABILITY LIMITS IN AIR : LOWER:N.D. UPPER: N.D.  
EXTINGUISHING MEDIA: WATER WATER FOG X CO2 X DRY CHEMICAL X FOAM X OTHER  
SPECIAL FIRE FIGHTING PROCEDURES: SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING SHOULD BE WORN IN FIGHTING FIRES INVOLVING CHEMICALS  
UNUSUAL FIRE AND EXPLOSION HAZARDS: HAZARDOUS NITROGEN OXIDES FORM.  
COMMENTS: N.D. = NOT DETERMINED

-----  
SECTION VI - PHYSICAL DATA

BOILING POINT(S 760 MM HG): NOT APPLICABLE  
SPECIFIC GRAVITY (AT 77 DEG F/25 DEG C): 1.04  
MELTING POINT: NOT APPLICABLE  
VAPOR PRESSURE (AT 77 DEG F/25 DEG C): NOT APPLICABLE  
VAPOR DENSITY (AIR = 1 AT 77 DEG F/25 DEG C): NOT APPLICABLE  
PERCENT VOLATILE BY WEIGHT (%): APPROX. 5  
EVAPORATION RATE (ETHER = 1): NOT APPLICABLE  
SOLUBILITY IN WATER(%): LESS THAN 0.1  
ODOR, APPEARANCE, COLOR: VERY LITTLE ODOR, PASTE-LIKE, CLEAR.

NOTE: THE ABOVE INFORMATION IS NOT INTENDED FOR USE IN PREPARING PRODUCT SPECIFICATIONS. CONTACT DOW CORNING BEFORE WRITING SPECIFICATIONS

DOW CORNING CORPORATION  
MATERIAL SAFETY DATA SHEET

HAZL NAME: TRADE NAME (TM) PLSTC, HTL, AND MSRY SLNT, CLEAR

-----  
SECTION VII - REACTIVITY DATA  
-----

STABILITY: STABLE

INCOMPATIBILITY (MATERIAL TO AVOID): OXIDIZING MATERIAL CAN CAUSE A REACTION.

CONDITIONS TO AVOID: EXPOSURE TO WATER, MOISTURE, OR AIR UNTIL READY TO APPLY--  
PRODUCT CURES UPON EXPOSURE.

HAZARDOUS DECOMPOSITION PRODUCTS: NITROGEN OXIDES, SILICON DIOXIDE, CARBON  
DIOXIDE, AND TRACES OF INCOMPLETELY BURNED CARBON PRODUCTS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: NOT APPLICABLE

COMMENTS: NONE

-----  
SECTION VIII - SPILL, LEAK, MAINTENANCE/REPAIR AND DISPOSAL PROCEDURES  
-----

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE PRODUCT  
AND CONTAIN FOR SALVAGE OR DISPOSAL.

PROTECTIVE EQUIPMENT:

EYES: USE PROPER PROTECTION -- SAFETY GLASSES, AS A MINIMUM.

SKIN: AVOID CONTACT BY USING IMPERVIOUS PROTECTIVE CLOTHING: RUBBER OR PLASTIC  
GLOVES, APRONS, BOOTS, ETC. USE PROTECTIVE GLOVES AS A MINIMUM AND WASH  
IMMEDIATELY UPON ANY DETECTABLE CONTACT.

INHALATION: USE RESPIRATORY PROTECTION UNLESS LOCAL EXHAUST VENTILATION IS  
ADEQUATE OR AIR SAMPLING DATA SHOW EXPOSURES ARE WITHIN TLV AND PEL GUIDELINES.

WASTE DISPOSAL METHOD: DOW CORNING SUGGESTS THAT ALL LOCAL, STATE AND FEDERAL  
REGULATIONS CONCERNING HEALTH AND POLLUTION BE REVIEWED TO DETERMINE APPROVED  
DISPOSAL PROCEDURES. CONTACT DOW CORNING IF THERE ARE ANY DISPOSAL QUESTIONS.

D.O.T. (49CFR 171.8)/E.P.A. (40CFR 117) SPILL REPORTING INFORMATION  
HAZARDOUS SUBSTANCE: NONE REPORTABLE QUANTITY: NOT APPLICABLE  
CONCENTRATION OF HAZARDOUS SUBSTANCE: NOT APPLICABLE  
REPORTABLE QUANTITY OF PRODUCT: NOT APPLICABLE

COMMENTS: PRODUCT CONTAINS NO INGREDIENT SUBJECT TO O.O.T OR E.P.A. CERCLA/SARA  
ENVIRONMENTAL RELEASE REPORTING REGULATIONS. SEE SEC. XI FOR ADDITIONAL SARA  
COMPLIANCE INFORMATION.

-----  
SECTION IX - ROUTINE HANDLING PRECAUTIONS  
-----

PROTECTIVE EQUIPMENT:

EYES: USE PROPER PROTECTION -- SAFETY GLASSES, AS A MINIMUM.

SKIN \*: AVOID CONTACT BY USING IMPERVIOUS PROTECTIVE CLOTHING: RUBBER OR  
PLASTIC GLOVES, APRONS, BOOTS, ETC. USE PROTECTIVE GLOVES AS A MINIMUM AND  
WASH IMMEDIATELY UPON ANY DETECTABLE CONTACT.

INHALATION: USE RESPIRATORY PROTECTION UNLESS LOCAL EXHAUST VENTILATION IS  
ADEQUATE OR AIR SAMPLING DATA SHOW EXPOSURES ARE WITHIN TLV AND PEL GUIDELINES.

VENTILATION:

LOCAL EXHAUST: RECOMMENDED  
MECHANICAL (GENERAL): RECOMMENDED

SUITABLE RESPIRATOR: ORGANIC VAPOR TYPE.

THESE PRECAUTIONS ARE FOR ROOM TEMPERATURE HANDLING. USE AT ELEVATED  
TEMPERATURES, OR AEROSOL/SPRAY APPLICATIONS, MAY REQUIRE ADDED PRECAUTIONS.  
\* GOOD PRACTICE REQUIRES THAT GROSS AMOUNT OF ANY CHEMICAL BE REMOVED  
FROM THE SKIN AS SOON AS PRACTICAL, ESPECIALLY BEFORE EATING OR SMOKING.  
COMMENTS: AVOID BREATHING VAPORS AND EYE AND SKIN CONTACT. USE ONLY WITH  
ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY.



DOW CORNING CORPORATION  
MATERIAL SAFETY DATA SHEET

MATL NAME: TRADE MATE(TM) PLSTC, HTL, AND HSNRY SLRT, CLEAR

-----  
SECTION X - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: STORE BELOW 90F/32C. KEEP CONTAINER CLOSED WHEN NOT IN USE.

OTHER PRECAUTIONS: WHEN EXPOSED TO WATER OR HUMID AIR, MATERIAL FORMS METHYL ETHYL KETOXIME (MEKO). PROVIDE VENTILATION DURING USE TO CONTROL EXPOSURE WITHIN 20 PPM (DOW CORNING EXPOSURE GUIDELINE) OR USE RESPIRATORY PROTECTION.  
COMMENTS: PRODUCT EVOLVES METHYL ALCOHOL WHEN EXPOSED TO WATER OR HUMID AIR. PROVIDE VENTILATION DURING USE TO CONTROL EXPOSURES WITHIN SECTION II LIMITS OR USE RESPIRATORY PROTECTION.

-----  
SECTION XI - COMMENTS

ADDITIONAL SARA REGULATORY COMPLIANCE INFORMATION

SEC. 312 HAZARD CLASS: IMMEDIATE AND DELAYED.  
SEC. 313 NOTIFICATION: NOT APPLICABLE - EITHER NONE PRESENT OR NONE PRESENT IN REGULATED QUANTITIES.

THESE DATA ARE OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE.

PREPARED BY: JACK L. SHENEBERGER  
LAST REVISION DATE: JANUARY 23, 1990  
PREVIOUS REVISION DATE: NOV. 22, 1989 (WAS X3-0408)  
DATE: JANUARY 31, 1991  
(R) INDICATES REGISTERED OR TRADEMARK OF THE DOW CORNING CORPORATION.

FORM OF BUREAU OF HEALTH RECEIVED

# MATERIAL SAFETY DATA SHEET

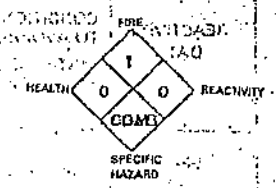
PRODUCT NAME: SCENTED ABSORB COMPOUND

BOARD OF HEALTH

MANUFACTURED BY:

SAVIN PRODUCTS COMPANY Inc.  
214 HIGH ST.  
RANDOLPH MA 02368

HAZARD RATING  
4 = EXTREME  
3 = HIGH  
2 = MODERATE  
1 = SLIGHT  
0 = INSIGNIFICANT



EMERGENCY PHONE: 617-961-2744

DATE: 12/1/88 SUPERSEDES: 3/5/84

WARNING STATEMENT	CAUTION: KEEP OUT OF THE REACH OF CHILDREN. MAY BE HARMFUL IF SWALLOWED FOR INSTITUTIONAL USE ONLY. DO NOT STORE IN HOUSEHOLD AREA.
HAZARDOUS COMPONENTS	THE PHYSICAL STATE, NATURE AND CONCENTRATION OF DEODORIZING COMPONENTS ARE SUCH THAT THE MATERIAL IS BELIEVED NOT TO PRESENT A HAZARD AS DEFINED UNDER CURRENT OSHA, FHSLA, CPSC AND STATE RIGHT TO KNOW REGULATIONS. THE PRODUCT DOES PRESENT AN ATTRACTIVE ODOR AND TASTE ATTRACTION TO CHILDREN WHICH CONCEIVABLY COULD LEAD TO AN INGESTION ABUSE. CONTAINS: SALICYLIC ACID, METHYL ESTER (OIL OF WINTERGREEN) CAS#119-36-8
PHYSICAL DATA	BOILING POINT: SOLID N/A      DENSITY: Less Than 4 lbs/gal VAPOR PRESSURE: SOLID N/A      % VOLATILE: Approx. 5% wt/wt VAPOR DENSITY: SOLID N/A      EVAP. RATE: LOW WATER SOLUBILITY: INSOLUBLE      pH DATA: Essentially Neutral GENERAL APPEARANCE: Light Brown, Sawdust-like Solid. Pleasant Mint Odor
FIRE AND EXPLOSION HAZARDS	FLASH POINT: OVER 220°F TAG CC      FLAMMABLE LIMITS (% Vol. In Air) LEL UEL EXTINGUISHING MEDIA: USE WATER SPRAY, DRY CHEMICAL, FOAM etc. none known USE WATER SPRAY TO KEEP CONTAINERS COOL. SPECIAL PROCEDURES & UNUSUAL HAZARDS: NONE KNOWN. NFPA/OSHA CLASS III-B COMBUSTIBLE. NFPA FIRE HAZARD RATING =1
Effects of Overexposure	EYES: MAY CAUSE TRANSIENT IRRITATION. SKIN: NONE WITH NORMAL USE. INHALATION: NONE WITH NORMAL USE. INGESTION: MAY CAUSE GASTRIC DISCOMFORT AND IRRITATION.
HEALTH HAZARD DATA	CHRONIC DATA: CURRENT DATA INDICATES NO EVIDENCE OF CARCINOGENIC HAZARDS. EYES: FLUSH WITH RUNNING WATER. SEEK MEDICAL ADVICE IF IRRITATION PERSISTS. SKIN: WASH WITH SOAP AND WATER. INHALATION: REMOVE PATIENT TO FRESH AIR. INGESTION: GIVE SEVERAL GLASSES OF MILK OR WATER. INDUCE VOMITING AND GET MEDICAL ATTENTION. ACGIH/OSHA/NIOSH DATA: PRODUCT IS MIXTURE AND IS NOT REFERENCED SPECIFICALLY. OIL OF WINTERGREEN (METHYL SALICYLATE) IS NIOSH LISTED ORAL-CHILD TXDS (10ml). NOT ACGIH/OSHA LISTED. CONTAINS LESS THAN 5 ml/lb of Product.

STABILITY: STABLE POLYMER HAZARD: NONE  
 CONDITIONS TO AVOID: NONE KNOWN  
 MATERIALS TO AVOID: STRONG OXIDIZING AGENTS. PRODUCT IS PRIMARILY ORGANIC.

NO PROBLEMS ANTICIPATED. SWEEP UP PRODUCT AND RETURN TO CONTAINER.

COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

GENERALLY PERMITTED IN SANITARY LANDFILL APPROVED UNDER LOCAL ORDINANCES  
 GENERALLY CONSIDERED ACCEPTABLE FOR SANITARY DISPOSAL SYSTEMS AND SEWERS.  
 CONTROLLED INCINERATION IS PREFERRED FOR LARGE SPILL DISPOSAL.

USE: NONE WITH NORMAL USE.  
 STORAGE: NONE WITH NORMAL USE.  
 VENTILATION: NONE WITH NORMAL USE. USE ADEQUATE VENTILATION.  
 OTHER: NONE WITH NORMAL USE.

DO NOT STORE WITH STRONG OXIDIZING AGENTS. I.e. Chlorine Bleach.  
 DO NOT STORE WITH FLAMMABLE OR COMBUSTIBLE SOLVENTS Etc.  
 KEEP FROM THE REACH OF CHILDREN. ODOR AND TASTE MAY LEAD TO MISUSE. FOR SUPERVIZED INSTITUTION USE ONLY. NOT FOR USE AT HOME.

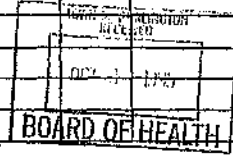
THIS PRODUCT IS BELIEVED TO PRESENT MINIMUM HAZARD WHEN PROPERLY STORED AND HANDLED.

THE PLEASANT WINTERGREEN ODOR & TASTE COULD LEAD TO INGESTION BY UNSUPERVIZED CHILDREN. INGESTION OF LARGE AMOUNTS ARE HARMFUL.

CONTACT YOUR TECHNICAL REPRESENTATIVE FOR FURTHER INFORMATION.

Methods of use are beyond our control, we do not assume any responsibilities and expressly disclaim liability for the material. Information contained herein is believed to be true and accurate but all statements are without any warranty, express or implied, regarding accuracy of the information, the hazards of the material or the results to be obtained from the use thereof.

HMTS Rating: Health 1, Flammability 3, Reactivity 0, Special 0		HMTS Rating: Health 1, Flammability 1, Reactivity 0, Personal Protection 0			
<b>Material Safety Data Sheet</b>					
This MSDS complies with OSHA's Hazard Communication Standard 29 CFR 1910.1200 and OSHA FORM 174.		DOT HAZARD CLASSIFICATION: ORM-D			
Identify (Trade Name As Used On Label): <b>HISLY PAJLESS STAINLESS</b>		MSDS Number: 142-6			
MANUFACTURER'S NAME: <b>AHREP, INC.</b>		CHEM TREC: 1-800-424-9300			
ADDRESS: 990 Industrial Park Drive		Date Prepared: 2/20/90			
Marietta, Georgia 30062		Prepared By: THJ/STN			
Phone Number (For Information): (404) 386-3083		NOTICE/JUDGMENT BASED ON INDIRECT TEST DATA			
Emergency Phone Number: (404) 386-3083					
<b>SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION</b>					
COMPONENTS -- Chemical Name & Common Name (Hazardous Components 1% or greater, Carcinogen 0.1% or greater)	CAS Number	APPROX. % (wt)	OSHA PEL (ppm)	ACGIH TLV (ppm)	CARCINOGEN REFERENCE SOURCE
Isobutane	75-28-5	11	1000	1000	d
Mineral Oil	8042-47-5	25	5mg/M <sup>3</sup>	5 mg/M <sup>3</sup>	d
NOTICE: THIS PRODUCT MAY CONTAIN ONE OF THE LISTED SUBSTANCES (SEE SECTION 3)					
47-66-1 Acetone      71-25-6 1,2,3-Trichloroethane      7782-50-7 Titanium Dioxide 50-00-0 Formaldehyde      75-09-2 Polyethylene glycol      7647-33-2 Phosphoric Acid 67-56-1 Hexanes      107-25-1 Ethylene glycol      7763-50-2 Silver nitrate 55-46-7 n-Heptane      114-94-2 Propylene      7644-95-9 Sulfuric Acid 54-75-7 Toluene      105-90-3 Toluene      7440-46-4 Zinc Oxide 72-43-2 Hydroquinone      122-19-6 Tetraminocetylone      7440-01-0 Hydrochloric Acid 78-27-2 sec-Butyl alcohol      129-13-9 Nitridioctylate Acid      7500-33-7 Hydrogenated Terephthalic acid ethyl ester					
<b>SECTION 2 - PHYSICAL / CHEMICAL CHARACTERISTICS</b>					
Boiling Point	NA	Specific Gravity (H <sub>2</sub> O = 1)	Concentration Only =		0.960
Vapor Pressure	PAIG @ 70°F (Aerosols)	Max: 60	Vapor Pressure (Non-Aerosols) (mm Hg and Temperature)	NA	
Vapor Density (Air = 1)	NA		Evaporation Rate	NA	
Solubility in Water	Soluble		Water Reactive	No	
Appearance and Odor	White foam with light lemon fragrance.				
<b>SECTION 3 - FIRE AND EXPLOSION HAZARD DATA</b>					
FLAMMABILITY as per USA FLAME PROJECTION TEST (ARENOGOL) <b>NON-FLAMMABLE</b>	Auto-Ignition Temperature <b>NA</b>	Flammability Limits in Air % by Volume	LEL <b>NA</b>	UEL <b>NA</b>	
Flash Point and Method Used (Non-Aerosols) <b>NA</b>	Extinguisher Media: foam, dry chemical, carbon dioxide, water.				
Special Fire Fighting Procedures: Self contained breathing apparatus					
Unusual Fire and Explosion Hazards: Do not expose aerosols to temperatures above 130° F or the container may rupture.					



\*Optional      \*\* Chemical Listed as Carcinogen or Potential Carcinogen       NTP       OSHA       Animal Data Only  
 IARC Monograph       Not Listed



SECTION 4 - REACTIVITY HAZARD DATA		142-6
STABILITY	Conditions To Avoid	
<input type="checkbox"/> Stable	Open flame, welding arcs, heat	
<input type="checkbox"/> Unstable		
Incompatibility (Materials to Avoid)	Strong oxidants.	
Hazardous Decomposition Products	CO, CO <sub>2</sub>	
HAZARDOUS POLYMERIZATION	Conditions To Avoid	
<input type="checkbox"/> May occur	None Known	
<input checked="" type="checkbox"/> Will Not Occur		
SECTION 5 - HEALTH HAZARD DATA		
PRIMARY ROUTES OF ENTRY	<input checked="" type="checkbox"/> Inhalation	<input type="checkbox"/> Ingestion
	<input checked="" type="checkbox"/> Skin Absorption	<input type="checkbox"/> Eye
	<input type="checkbox"/> Not Hazardous	
ACUTE EFFECTS		
Inhalation:	Excessive inhalation of vapors can be harmful and may cause headache, dizziness, anophytosis, anesthetic effects and possible unconsciousness.	
Eye Contact:	Mild irritation.	
Skin Contact:	May aggravate existing skin conditions.	
Ingestion:	Possible chemical pneumonitis if aspirated into lungs. Nausea.	
CHRONIC EFFECTS	(Effects due to excessive exposure to the raw materials of this mixture) May cause headache, dizziness and nausea.	
Medical Conditions Generally Aggravated by Exposure	May aggravate existing eye, skin, or upper respiratory conditions.	
EMERGENCY FIRST AID PROCEDURES -		
Eye Contact:	Flush with water for 15 minutes. If irritated, see physician.	
Skin Contact:	Wash with soap and water. If irritated, see physician.	
Inhalation:	Remove to fresh air. Resuscitate if necessary. Get medical aid.	
Ingestion:	INDUCE VOMITING. CALL PHYSICIAN IMMEDIATELY.	
SECTION 6 - CONTROL AND PROTECTIVE MEASURES		
Respiratory Protection (Specify Type)	If vapor conc. exceeds TLV, use respirator approved by NIOSH in positive pressure mode.	
Protective Gloves:	Latex, if skin easily irritated.	Eye Protection: Safety glasses recommended
VENTILATION REQUIREMENTS	Adequate ventilation to keep vapor concentration below TLV.	
General Protection: Clothing and Equipment	None	
Hygienic Work Practices	Wash with soap and water before handling food. Remove contaminated clothing.	
SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE / LEAK PROCEDURES		
Steps to be Taken if Material is Spilled or Released	Absorb with suitable medium. Incinerate or landfill according to local, state, or federal regulations. Do not flush to sewer.	
Waste Disposal Methods	Aerosol cans when vented to atmospheric pressure through normal use, pose no disposal hazard.	
Precautions to be Taken in Handling and Storage	Do not puncture or incinerate containers. Do not store at temperatures above 130°F.	
Other Precautions and / or Special Hazards	Avoid food contamination. KEEP OUT OF REACH OF CHILDREN, Avoid breathing vapors.	

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, express or implied.

S.C. Johnson Wax  
 Racine, Wisconsin 53403-5011  
 Phone: (414) 631-2777  
 Emergency Phone: (414) 631-2000

4-Very High HAZARD RATINGS  
 3-High  
 2-Moderate  
 1-Slight  
 0-Insignificant

HMIS		NFPA
3	Health	
0	Flammability	
0	Reactivity	

## MATERIAL SAFETY DATA SHEET

### SECTION I-PRODUCT IDENTIFICATION

Product Name:	HORIZON 420 NO RINSE NEUTRAL CLEANER		Product Code:	7010W25-001
Chemical or Common Name:	Date Issued:	Supersedes:	Prepared by:	
NA	06/29/90	05/05/89	Terry A. Meyers Chemical Info. Adm.	

### SECTION II-INGREDIENT INFORMATION

Ingredient	Weight %	Exposure Limit
Nonylphenol Polyethylene Glycol Ether (CAS #26027-38-3)	3-6	NOT ESTABLISHED
Water (CAS #7732-18-5)	94-97	NA

### SECTION III-PHYSICAL DATA

APPEARANCE/Odor: Dark blue liquid with floral odor	SPECIFIC GRAVITY (H <sub>2</sub> O=1): 1.01
VAPOR PRESSURE (mm Hg): Same as water	PERCENT VOLATILE BY VOLUME (%): NA
SOLUBILITY IN WATER: Complete	VAPOR DENSITY (AIR=1): Same as water
FREEZING POINT (°F): about 32	BOILING POINT (°F): above 200
pH: 7.7	EVAPORATION RATE (BUTYL ACETATE=1): NA

### SECTION IV-FIRE AND EXPLOSION INFORMATION

FLASH POINT (°F) (METHOD USED): above 200	RECEIVED JUN 1 1995 BOARD OF HEALTH
FLAMMABLE LIMITS: NA	
EXTINGUISHING MEDIA: Foam, CO <sub>2</sub> , Dry Chemical, Water Fog.	
SPECIAL FIREFIGHTING PROCEDURES: Normal fire fighting procedures may be used.	
UNUSUAL FIRE AND EXPLOSION HAZARDS: No special hazards known	

### SECTION V-HEALTH HAZARD DATA

PRIMARY ROUTE OF ENTRY: Skin contact
SIGNS AND SYMPTOMS: Direct contact of product with eyes can cause irritation. Prolonged or repeated contact of product with skin may cause irritation. Product may cause irritation and nausea if taken internally.
FIRST AID PROCEDURES: Flush eyes with water for 15 minutes. If irritation persists, seek medical aid. If product gets on skin, remove with soap and water. If product is swallowed, drink large amounts of water or milk and seek medical aid.

JOHNSON WAX MATERIAL SAFETY DATA SHEET PAGE 2

UNION WAX  
1555 Howe Street  
Racine, Wisconsin 53403

UNION WAX  
1555 Howe Street  
Racine, Wisconsin 53403

SECTION I-IDENTIFICATION

Product Name: RUGREE EXTRACTION PLUS  
Product Number: 13840-001  
Product Number: 13840-001

SECTION II-REGULATORY INFORMATION  
This material is not classified as a hazardous material under the California Proposition 65, 1986.  
This material is not classified as a hazardous material under the Federal, State, and local treatment requirements.

SECTION III-REGULATORY INFORMATION  
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JOHNSON WAX MATERIAL SAFETY DATA SHEET PAGE 3

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S.C. Johnson Wax  
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Phone: (414) 631-2777  
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4=Very High HAZARD RATINGS	
3=High	HMIS
2=Moderate	2 Health
1=Slight	2 Flammability
0=Insignificant	0 Reactivity

MATERIAL SAFETY DATA SHEET

SECTION I-PRODUCT IDENTIFICATION

Product Name: RUGREE EXTRACTION PLUS	Product Code: 13840-001
Chemical or Common Name: NA	Date Issued: 06/29/90
Superceded: 10/06/89	Prepared by: Terry A. Mayers Chemical Info. Adm.

SECTION II-INGREDIENT INFORMATION

Ingredient	Weight %	Exposure Limit
Tetrapotassium Pyrophosphate (CAS #7320-34-5)	1-3	NE
(PA, NJ, MA) Glycol Ether (CAS #111-76-2)	2-5	25 ppm ACGIH TLV-TWA; 50 ppm OSHA PEL
D-Limonene (CAS #5989-27-5)	3-8	NE
Sodium Perborate (CAS #10486-00-7)	1-3	5 mg/m <sup>3</sup> (Supplier Recommended)
Amine Acyl Sulfonate (CAS # NA)	3-8	NE
Alkyl Naphthalene Sodium Sulfonate	1-3	NE
Water (CAS #7732-18-5)	70-90	NA

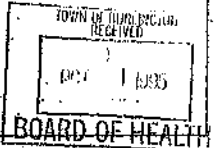
See Regulatory Information (Section XII) for explanation of bracketed information.

SECTION III-PHYSICAL DATA

APPEARANCE/ODOR: Clear, light yellow, low viscosity liquid, with a sweet citrus odor	SPECIFIC GRAVITY (H <sub>2</sub> O=1): 1.0
VAPOR PRESSURE (mm Hg): ND	PERCENT VOLATILE BY VOLUME (%): 89.5
SOLUBILITY IN WATER: Complete	VAPOR DENSITY (AIR=1): ND
FREEZING POINT (°F): ND	BOILING POINT (°F): ND
pH: 9.0-10.0	EVAPORATION RATE (BUTYL ACETATE=1): ND

SECTION IV-FIRE AND EXPLOSION INFORMATION

FLASH POINT (°F) (METHOD USED): 118 (TCC); 143 (TOC)
FLAMMABLE LIMITS: ND
EXTINGUISHING MEDIA: Foam, CO <sub>2</sub> , Dry Chemical, Water Fog.



## MATERIAL SAFETY DATA SHEET

JOHNSON MAX  
155 JOHNSON WAY  
155 JOHNSON WAY  
BURLINGTON, MASSACHUSETTS 01803  
Serial Number: 1

SECTION I - HAZARDOUS INFORMATION  
SECTION II - IDENTIFICATION  
SECTION III - PHYSICAL DATA  
SECTION IV - FIRE AND EXPLOSION HAZARD DATA  
SECTION V - HEALTH HAZARD DATA  
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MATERIAL SAFETY DATA SHEET  
For Coatings, Resins and Related Materials

## SECTION I - PRODUCT IDENTIFICATION

Manufactured for: Triple S  
141 Middlesex Tpke  
Burlington, MA 01803  
Product Class: Waterbase Cleaner  
Trade Name: NewAge Maintenance Cleaner  
Product Code: 4P2309

Information Phone: 617-273-20  
Emergency Phone 24HR: 800-228-56

Hazard Ratings: Health -  
Fire -  
Reactivity -  
Personal Protection -

## SECTION II - HAZARDOUS INGREDIENTS

Ingredients	CAS #	Weight %	Exposure Limits	Vapor Pr. mm Hg
n-PROPANOL	67-63-0	9.1	400. ppm	37.
2-BUTOXYETHANOL	111-76-2	10.0	25. ppm	.6

## SECTION III - PHYSICAL DATA

Boiling Range: 175-343 F  
Evap. Rate: Slower than n-Butyl Acetate  
Volatiles volume: >99 %  
Appearance: LIGHT BLUE LIQUID

Vapor Density: Heavier than Air.  
Liquid Density: Lighter than Water.  
Wgt per gallon: 8.15 Pounds.

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammability Class: II  
Flash Point: 112 F TCC  
LEL: 2.

-EXTINGUISHING MEDIA:  
CARBON DIOXIDE, DRY CHEMICAL, FOAM

-SPECIAL FIREFIGHTING PROCEDURES:  
NONE

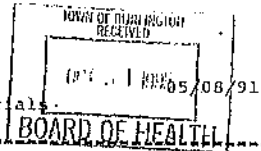
-UNUSUAL FIRE & EXPLOSION HAZARDS:  
SELF-CONTAINED BREATHING APPARATUS MAY BE REQUIRED FOR FIREFIGHTERS.

## SECTION V - HEALTH HAZARD DATA

-PERMISSIBLE EXPOSURE LEVEL:  
SEE SECTION II

-EFFECTS OF OVEREXPOSURE:  
MAY CAUSE SKIN AND EYE IRRITATION. BREATHING OF VAPORS MAY CAUSE HEADACHE OR DIZZINESS. MAY CAUSE DAMAGE TO EYE TISSUES. MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: PREEXISTING EYE, SKIN, AND LUNG DISORDERS.  
PRIMARY ROUTES OF ENTRY: EYES, SKIN, INHALATION.

-FIRST AID:  
INHALATION: IF OVERCOME BY VAPORS, REMOVE TO FRESH AIR, TREAT SYMPTOMATICALLY AND CALL A PHYSICIAN. EYES: FLUSH WITH PLENTY OF WATER FOR 15 MINUTES AND GET MEDICAL ATTENTION. SKIN: WASH WITH SOAP AND WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.





Product Code: 4P2309

Trade Name: NEW AGE MAINTENANCE CLEANER

SECTION VI - REACTIVITY DATA (CONT.)

STABILITY: [ ] Unstable [x] Stable  
HAZARDOUS POLYMERIZATION: [ ] May occur [x] Will not occur

-INCOMPATIBILITY  
ACIDS AND ALKALIES.  
-CONDITIONS TO AVOID:  
NONE

-HAZARDOUS DECOMPOSITION PRODUCTS:  
THERMAL DECOMPOSITION MAY PRODUCE CO & CARBON DIOXIDE.

SECTION VII - SPILL OR LEAK PROCEDURES

-STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED  
ELIMINATE ALL SOURCES OF IGNITION. CONTAIN SPILL AND  
COLLECT FOR DISPOSAL.

-WASTE DISPOSAL METHOD:  
DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL  
REGULATIONS.

SECTION VIII - SPECIAL PROTECTION INFORMATION:

-RESPIRATORY PROTECTION:  
USUALLY NOT NEEDED. IF HIGH CONCENTRATION OF VAPOR IS  
ENCOUNTERED, USE ALL PURPOSE CANISTER MASK.

-VENTILATION:  
GENERAL (MECHANICAL)

-PROTECTIVE GLOVES:  
RUBBER

-EYE PROTECTION:  
GOGGLES

-OTHER PROTECTIVE EQUIPMENT:  
EYE WASH

SECTION IX - SPECIAL PRECAUTIONS

-PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:  
STORE IN A COOL, DRY PLACE AWAY FROM SOURCES OF IGNITION.  
KEEP CONTAINERS CLOSED AND UPRIGHT.

-OTHER PRECAUTIONS:  
FOR INDUSTRY USE ONLY.

DOT CATEGORY: COMBUSTIBLE LIQUID

CONTAINS: WATER, 2-PROPANOL\*, 2-BUTOXYETHANOL\*. OTHER  
INGREDIENTS UNKNOWN OR PARTIALLY UNKNOWN.

\* INDICATES COMPONENTS WHICH MAY BE REPORTABLE UNDER  
SARA TITLE III, SECTION 313.

NOTICE: THIS PRODUCT MAY CONTAIN TRACE AMOUNTS OF ETHYLENE  
OXIDE, A SUBSTANCE KNOWN TO THE STATE OF CALIFORNIA AS A  
CANCER HAZARD AND REPRODUCTIVE TOXICANT.

# Material Safety Data Sheet

Date last revised 6/1/90

The information and data contained herein are believed to be correct. However, Viking Mfg. Co. does not warrant either expressly or by implication the accuracy thereof.

Prepared by Walter Zwible

## I. General Information

Chemical Name & Synonyms METHYL ALCOHOL, METHANOL, WOOD ALCOHOL	Trade Name & Synonyms DUPLICATING FLUID
Chemical Family ALCOHOL	Formula CH <sub>3</sub> OH
Proper DOT Shipping Name METHYL ALCOHOL UN 1230	DOT Hazard Classification FLAMMABLE LIQUID
Manufacturer VIKING MFG. CO.	Manufacturer's Phone Number (508) 653-0940
Manufacturer's Address 68 MIDDLESEX AVE., NATICK, MA. 01760	Chemical Phone Number 1-800-424-9300

## II. Ingredients

Principal Hazardous Components	Percent	Threshold Limit Value (units)
METHYL ALCOHOL CAS No. 67-56-1	99%	200 ppm
ETHYLENE GLYCOL MONOBUTYL ETHER CAS No. 111-76-2	<1%	50 ppm

TOWN OF BURLINGTON RECEIVED  
 JUN 11 1990  
 BOARD OF HEALTH

## III. Physical Data

Boiling Point (°F) 148°F	Specific Gravity (H <sub>2</sub> O = 1) 0.791
Vapor Pressure (mm Hg.) 96 @ 20°C	Percent Volatile By Volume (%) 100%
Vapor Density (Air = 1) 1.11	Evaporation Rate (H <sub>2</sub> O = 1) butyl acetate = 1.1
Solubility in Water complete	pH 8
Appearance & Odor Clear liquid, slight alcohol odor.	

## IV. Fire & Explosion Hazard Data

Flash Point (Test Method) Tag closed cup 52°F	Auto Ignition Temperature 725°F
Flammable Limits LEL 6% UEL 36.5%	
Extinguishing Media Water Spray, Alcohol Foam, CO <sub>2</sub> , Dry Chemical, Any Class B Extinguishing Agent	
Special Fire Fighting Procedures Full protective clothing & self contained breathing apparatus should be worn when exposed to vapors or products of combustion.	
Unusual Fire & Explosion Hazards N/A	

NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA

NFPA Rating: Health 2, Flammability 1, Reactivity 0, Special 0		HMMA Rating: Health 2, Flammability 1, Reactivity 0, Personal Protection 0			
<b>Material Safety Data Sheet</b>					
This MSDS complies with OSHA's Hazard Communication Standard 29 CFR 1910.1200 and OSHA FORM 174.		DOT HAZARD CLASSIFICATION: DRH-D			
MANUFACTURER'S NAME AHREP, INC.		Identify (Trade Name As Used On Label) MISTY ACCUR-SPRAY 11 MASP & HORNET KILLER			
ADDRESS 990 Industrial Park Drive		MSDS Number 434-2 T			
Harlette, Georgia 30062		EMERGENCY RESPONSE NUMBER: 800-255-3924			
Phone Number (For Information) (404) 386-3083		Date Prepared 2/20/90			
Emergency Phone Number (404) 386-3083		Prepared By THJ/STN			
NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA					
<b>SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION</b>					
COMPONENTS - Chemical Name & Common Names (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	CAS Number	APPROX. % (wt)	OSHA PEL (ppm)	ACGIH TLV (ppm)	CARCINOGEN REFERENCE SOURCE
Methyl chloroform	71-55-6	84.75	350	350	d
Insecticide concentrate including:					
Permethrin	10453-86-8	0.25	NE	NE	d
Carbon dioxide	124-38-9	4	5000	5000	d
Petroleum distillate	8052-01-3	11	500	100	d
(NOTICE: THIS PRODUCT MAY CONTAIN ONE OF THE LISTED SUBSTANCES IN SECTION 11)					
CHEMICALS:					
01-44-1 Acetone 06-02-0 Benzaldehyde 01-54-1 Butanol 05-46-1 n-Butane 14-75-1 Toluene 22-85-3 Putrescine 26-92-2 n-Propyl alcohol *See table elsewhere.	71-55-6 1,1,1-Trichloroethane 75-09-2 Methylow chloride 109-71-1 Glycerol glycol 134-28-1 Propane 106-96-5 Toluene 137-18-4 Isocyanatodimethylurea 139-12-9 Methylolacetic acid 14-02-1 Formic	1310-61-7 Titanium Dioxide 1064-38-2 Phosphoric Acid 7811-04-8 Silver chloride 7664-93-9 Sulfuric acid 7440-14-6 Zinc Sulfide 2842-01-0 Hydrochloric Acid 1330-20-2 Sodium hexafluorantimonate 14-02-1 Formic	BOARD OF HEALTH RECEIVED		
<b>SECTION 2 - PHYSICAL / CHEMICAL CHARACTERISTICS</b>					
Boiling Point	NA	Specific Gravity (4/4 = 1)	Concentrate Only = 1.190		
Vapor Pressure	PSIG @ 70°F (Aerosols)	85 - 100	Vapor Pressure (Non-Aerosols) (mm Hg and Temperature)	NA	
Vapor Density (Air = 1)	NE	Evaporation Rate	NE		
Solubility in Water	Insoluble	Water Reactive	No		
Appearance and Odor	Clear, yellow liquid, chlorinated solvent odor.				
<b>SECTION 3 - FIRE AND EXPLOSION HAZARD DATA</b>					
FLAMMABILITY as per USA FLAME PROJECTION TEST (AEROSOLS) NON-FLAMMABLE	Auto-Ignition Temperature NE	Flammability Limits in Air % by Volume NE	LEL NE	UEL NE	
Flash Point and Method Used (Non-Aerosols)	NA				
Extinguisher Media	Foam, dry chemical, carbon dioxide				
Special Fire Fighting Procedures	Self contained breathing apparatus				
Unusual Fire and Explosion Hazards: Do not expose aerosol to temperatures above 130° F or the container may rupture.					

SECTION 4 - REACTIVITY HAZARD DATA		434-2
STABILITY	Conditions To Avoid	
<input checked="" type="checkbox"/> Stable	Open flame, welding arcs, heat	
<input type="checkbox"/> Unstable		
Incompatibility (Materials to Avoid) Strong oxidizing agents, reactive metals such as aluminum and magnesium.		
Hazardous Decomposition Products CO <sub>2</sub> , CO, HCl, small amounts of phosgene and chlorine.		
HAZARDOUS POLYMERIZATION	Conditions To Avoid	
<input type="checkbox"/> May occur		
<input checked="" type="checkbox"/> Will Not Occur	None Known	
SECTION 5 - HEALTH HAZARD DATA		
PRIMARY ROUTES OF ENTRY	<input checked="" type="checkbox"/> Inhalation	<input type="checkbox"/> Ingestion
	<input type="checkbox"/> Skin Absorption	<input type="checkbox"/> Eye
		<input type="checkbox"/> Not Hazardous
ACUTE EFFECTS		
Inhalation	Excessive inhalation of vapors can be harmful and may cause headache, dizziness, asphyxia, anesthetic effects and possible unconsciousness.	
Eye Contact	Possible mild irritation.	
Skin Contact	Possible irritation due to defatting of skin.	
Ingestion	Possible chemical pneumonitis if aspirated into lungs, nausea.	
CHRONIC EFFECTS (Effects due to excessive exposure to the raw materials of this mixture) May cause cardiac abnormality, liver abnormalities, kidney and/or lung damage.		
Medical Conditions Generally Aggravated by Exposure May aggravate existing eye, skin, or upper respiratory conditions.		
EMERGENCY FIRST AID PROCEDURES -		
Eye Contact	Flush with water for 15 minutes. If irritated, see physician.	
Skin Contact	Wash with soap and water. If irritated, see physician.	
Inhalation	Remove to fresh air. Resuscitate if necessary. Get medical aid.	
Ingestion	DO NOT INDUCE VOMITING. CALL PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.	
SECTION 6 - CONTROL AND PROTECTIVE MEASURES		
Respiratory Protection (Specify Type) If vapor conc. exceeds TLV, use respirator approved by U.S. Bureau of Mines for organic vapor.		
Protective Goggles	None required	
Eye Protection	Safety glasses recommended	
VENTILATION REQUIREMENTS	Adequate ventilation to keep vapor concentration below TLV.	
Other Protective Clothing and Equipment	None	
Hygienic Work Practices	Wash with soap and water before handling food. Remove contaminated clothing.	
SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE / LEAK PROCEDURES		
Steps to be Taken if Material is Spilled or Released	Absorb with suitable medium. Incinerate or landfill according to local, state, or federal regulations. Do not flush to sewer.	
Waste Disposal Methods	Aerosol cans when vented to atmospheric pressure through normal use, pose no disposal hazard.	
Precautions to be Taken in Handling and Storage	Do not puncture or incinerate containers. Do not store at temperatures above 130°F.	
Other Precautions and/or Special Hazards	Avoid food contamination. KEEP OUT OF REACH OF CHILDREN. Avoid splashes. Avoid breathing vapors.	

Material Safety Data Sheet  
May be used to comply with  
OSHA's Hazard Communication Standard,  
29 CFR 1910.1200. Standard must be  
consulted for specific requirements.

U.S. Department of Labor  
Occupational Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved  
DHB No. 1218-0072



IDENTITY (As Used on Label and List) KITCHEN KLENZER DISINFECTANT		(Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.)	
Section I			
Manufacturer's Name FITZPATRICK BROS., INC.	Emergency Telephone Number (312) 727-3300		
Address (Number, Street, City, State, and ZIP Code) 625 N. SACRAMENTO BLVD.	Telephone Number for Information (312) 727-3300		
CHGO, IL. 60612	Date Prepared 5-3-86		
	Signature of Preparer (optional)		
Section II - Hazardous Ingredients/Identify Information			
Hazardous Components (Specify Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended
NONE			As Applicable
NO HAZARDOUS INGREDIENTS REGULATED BY THE MASSACHUSETTS RIGHT TO KNOW LAW.			
Section III - Physical/Chemical Characteristics			
Boiling Point	N/A	Specific Gravity (H <sub>2</sub> O = 1)	N/A
Vapor Pressure (mm Hg)	N/A	Melting Point	N/A
Vapor Density (Air = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water PARTIALLY SOLUBLE.			
Appearance and Odor GREEN POWDER, ODOR.			
Section IV - Fire and Explosion Hazard Data			
Flash Point (Method Used)	N/A	Flammable Limits	LEL N/A UEL N/A
Extinguishing Media NO FIRE OR EXPLOSIVE HAZARD			
Special Fire Fighting Procedures NONE			
Unusual Fire and Explosion Hazards N/A			

TOWN OF BURLINGTON  
RECEIVED  
MAY 11 1986  
BOARD OF HEALTH

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, express or implied.



Section V - Reactivity Data			
Stability	Unstable	Conditions to Avoid	
	Stable	AVOID CONTACT WITH ACIDS	
Incompatibility (Materials to Avoid)			
Hazardous Decomposition or Byproducts			
Hazardous Polymerization	May Occur	Conditions to Avoid	
	Will Not Occur	N/A	
Section VI - Health Hazard Data			
Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
Health Hazards (Acute and Chronic)			
SCOURING POWDER MAY BE HARMFUL IF SWALLOWED AND IS INJURIOUS TO THE EYES.			
SCOURING POWDER IS NOT IRRITATING TO THE SKIN.			
Carcinogenicity:	NIH?	IARC Monographs?	OSHA Regulated?
Signs and Symptoms of Exposure			
NONE			
Medical Conditions			
Seriously Aggravated by Exposure			
NONE			
Emergency and First Aid Procedures			
IN CASE OF EYE CONTACT, IMMEDIATELY REMOVE CONTACT LENSES AND FLUSH THOROUGHLY WITH WATER. IF IRRITATION PERSISTS, SEE A PHYSICIAN. IN CASE OF INGESTION, DRINK A LARGE QUANTITY OF WATER OR MILK. CALL A DOCTOR.			
Section VII - Precautions for Safe Handling and Use			
Steps to Be Taken in Case Material is Released or Spilled			
NORMAL CLEAN UP PROCEDURES			
Waste Disposal Method			
CONFORM TO STATE AND LOCAL REGULATIONS			
Precautions to Be Taken in Handling and Storing			
DRY STORAGE AREA			
Other Precautions			
KEEP OUT OF REACH OF CHILDREN.			
Section VIII - Control Measures			
Respiratory Protection (Specify Type)			
IF DUSTY, WEAR MASK			
Ventilation	Local Exhaust	NATURAL	Special
	Mechanical (General)		Other
Protective Gloves	OPTIONAL	Eye Protection	WEAR GOGGLES, IF NEEDED
Other Protective Clothing or Equipment			
Work/Hygiene Practices			

## Material Safety Data Sheet

## SECTION I - IDENTITY

#118 ELIMINATOR

Hazardous - YES

PERMA Incorporated  
605 Springs Road  
Bedford, MA. 01730

Health	2
Flammability	0
Reactivity	0
Personal Protection	B

Telephone Number for Information  
508/667-5161  
Date Prepared  
01/15/81

4 - Most Hazardous  
Emergency Phone Number  
1-800-255-3924 or Poison Center

Prepared By A. Vadasz

## SECTION II - HAZARDOUS INGREDIENTS

Hazardous Components CAS Reg#	PBL ppm	TWA ppm	STEL ppm	Other Limits	% (opt)
2-BUTOXYETHANOL # 111-75-2	50	25			< 30
ETHANOLAMINE # 141-43-5	3	3	6		< 20

\*LISTED CHEMICAL SUBJECT TO REPORTING REQUIREMENT OF SEC. 131 OF TITLE XII.

## SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Bolling point	- 215F	Specific Gravity (Water=1)	- 1.08
Vapor Pressure (mm Hg)	- 16.0	Melting Point	- N.A.
Vapor Density (air=1)	- 1.2	Evaporation Rate (Butyl Acetate=1)	- 0.25
Viscosity (CPS)	- 12.5	Decomposition Temperature	- NA.
Auto Ignition Temp.	- NA.	Solubility in Water	- COMPLETE
pH - 11-13+/-			
Appearance and Odor	- THIN, YELLOW LIQUID, DETERGENT ODDR		

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point - ABOVE 200 F TCC  
Flammable Limits  
LEL - N.A. UEL - N.A.

Extinguishing media - WATER SPRAY

Fire Fighting Procedure - COOL CONTAINERS WITH WATER

Fire and Explosion Hazards - CLOSED CONTAINERS MAY BURST WHEN EXPOSED TO EXTREME HEAT. ISOLATE FROM HEAT, SPARKS AND OPEN FLAME.

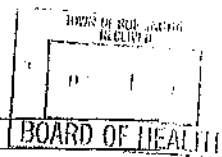
## SECTION V - REACTIVITY DATA

Stability - STABLE  
Conditions to Avoid N.A.

Incompatibility - ACIDS, STRONG OXIDIZERS  
Hazardous Decomposition or Byproduct - THERMAL DECOMPOSITION MAY YIELD CARBON MONOXIDE

Hazardous Polymerization - WILL NOT OCCUR  
Conditions to Avoid - N.A.

The information herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or results to be obtained from use thereof.  
Essentially similar to OSHA form # 174



## SECTION VI - HEALTH HAZARD DATA

Routes of entry:  
 Inhalation - YES      Skin - YES      Ingestion - YES

Health Hazards-Acute: CAUSES CHEMICAL BURNS TO EYES, SKIN AND MUCOUS MEMBRANES. CHRONIC: REDNESS OF SKIN, DERMATITIS, HEMOGLOBINURIA  
 TARGET ORGANS: LIVER, KIDNEYS, SKIN, EYES

Carcinogenicity: NO  
 NTP - N.A.      IARC Monographs - N.A.      OSHA Regulated - NO

Signs and Symptoms of Exposure - ITCHING, BURNING SENSATION, REDNESS OF SKIN, BURNING OF EYES

Medical Conditions Aggravated - SENSITIZED SKIN, RENAL DEFICIENCY

Emergency and First Aid Procedures -WASH CONTACT AREAS WITH PLENTY OF WATER: 15 MINUTES. INGESTION: GIVE MILK, WATER OR CITRUS JUICE, INDUCE VOMITING WITH OIL OF PEPPERCORN. MOVE SUBJECT TO FRESH AIR. CALL PHYSICIAN IMMEDIATELY

## SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled - DIKE AND COLLECT MATERIAL INTO PLASTIC CONTAINER. WATER RINSE AND DRAIN, FLUSH SMALL AMOUNTS. (BIODEGRADABLE)

Waste Disposal Method - USE SANITARY LANDFILL DISPOSAL. (NOT A HAZARDOUS WASTE) FOLLOW STATE AND LOCAL REGULATIONS (RCRA; SUBTITLE D)

Precautions to be Taken in Handling and Storage -  
 DO NOT MIX WITH OTHER CHEMICALS.  
 AVOID PROLONGED CONTACT. KEEP FROM FREEZING AND EXCESSIVE HEAT.

Other Precautions - STORE IN SECURE AREA. AVOID FOOD OR FEED CONTAMINATION. AVOID PROLONGED INHALATION OF VAPORS. KEEP OUT OF REACH OF CHILDREN!

## SECTION VIII - CONTROL MEASURES

Respiratory Protection - NOT REQUIRED WITH NORMAL USE  
 IN WELL VENTILATED AREA

Ventilation      Local Exhaust -RECOMMENDED

Mechanical      -REQUIRED; EXCHANGE EVERY 10-15 MINUTES

Special            -N.A.

Other              -ASSURE FRESH AIR CIRCULATION.

Protective Gloves - REQUIRED: RUBBER, PLASTIC

Eye Protection    - REQUIRED: SAFETY GLASSES, GOGGLES

Other Protection    - RECOMMENDED: RUBBER OR PLASTIC APRON, SHOWER, EYE WASH FACILITY

Work/Hygiene Practices - DO NOT EAT, DRINK NEXT TO MATERIAL.  
 WASH HANDS/FACE AFTER WORK.

## SECTION IX - TRANSPORTATION

49 CFR

Unit Cont. - 55,30,5,1 GAL. PLASTIC CONT      Report Qty. (Lbs) - NA.  
 OSHA - NOT REGULATED                              Labels - UN-CORROSIVE  
 DOT - NOT REGULATED

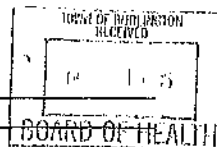
UN - HAZARDOUS /X/ CORROSIVE LIQUID-PACKAGING GROUP III

DOT-NOT REGULATED

UN- HAZARDOUS /X/ CORROSIVE LIQUID N.O.S. (ETHANOLAMINE) 8 UN1760

Vendor assumes no responsibility for injury to vendee or third person proximately caused if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee, or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Further more, vendee assumes the risk in use of the material.

## Material Safety Data Sheet



## SECTION I - IDENTIFY

#112 POUR & CLING      Hazardous - YES

PERMA Incorporated  
 605 Springs Road  
 Bedford, MA. 01730

Health	2
Flammability	0
Reactivity	1
Personal Protection	C

Telephone Number for Information: 508/667-5161  
 Date Prepared: 01/15/91  
 Prepared By: T. Pitrolffy

4 = Most Hazardous  
 Emergency Phone Number: 1-800-255-3924 or Poison Center

## SECTION II - HAZARDOUS INGREDIENTS

Hazardous Components CAS Reg#	PEL mg/m3	TWA mg/m3	STEL mg/m3	Other Limits	% (opt)
*PHOSPHORIC ACID #7664-38-2	1	1	3		< 15

\*LISTED CHEMICAL SUBJECT TO REPORTING REQUIREMENT OF SCT.313 OF TITLE III.

## SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling point	- 212F	Specific Gravity(Water=1)	- 1.09
Vapor Pressure (mm Hg)	- 17	Melting Point	- N.A.
Vapor Density (air=1)	- 1	Evaporation Rate(Butyl Acetate=1)	- 0.33
Viscosity (cP@)	- 250	Decomposition Temperature	- N.A.
Auto Ignition Temp.	- NA.	Solubility in Water	-COMPLETE
pH - 2.5 +/-0.5			
Appearance and Odor	- PINK LIQUID WITH FRAGRANCE		

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point - N.A.      Flammable Limits  
 LEL - N.A.      UEL - N.A.

Extinguishing media -WATER

Fire Fighting Procedure - COOL CONTAINERS WITH WATER

Fire and Explosion Hazards - NON FLAMMABLE, BUT MAY REACT WITH MOST METALS ON LONG CONTACT, WITH THE POSSIBLE EVOLUTION OF HYDROGEN

## SECTION V - REACTIVITY DATA

Stability -STABLE  
 Conditions to Avoid N.A.

Incompatibility - ALKALINE, MILD STEEL ALUMINIUM

Hazardous Decomposition or Byproduct -

Hazardous Polymerization - WILL NOT OCCUR  
 Conditions to Avoid - N.A.

The information herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or results to be obtained from use thereof.  
 Essentially similar to OSHA form # 174

SECTION VI - HEALTH HAZARD DATA		
Routes of entry: Inhalation - YES	Skin - YES	Ingestion - YES
Health Hazards-Acute: CAUSES SEVERE CHEMICAL BURNS TO EYES, SKIN AND MUCOUS MEMBRANES. CHRONIC: CHEMICAL BURNS AND/OR ULCERATION OF SKIN, MAY PERMANENTLY DAMAGE EYES. TARGET ORGANS: EYES, RESP. SYS., UPPER GI. TRACT, SKIN		
Carcinogenicity: NO NTP - N.A. IARC Monographs - N.A. OSHA Regulated - NO		
Signs and Symptoms of Exposure - REDNESS, IRRITATION OF EYES, SKIN OR MUCOUS MEMBRANES		
Medical Conditions Aggravated - SENSITIZED SKIN		

Emergency and First Aid Procedures - IMMEDIATELY WASH CONTACT AREAS (EYES) WITH LARGE QUANTITIES OF WATER FOR 15 MINUTES.  
INGESTION: DRINK LARGE AMOUNTS OF WATER OR MILK, CALL PHYSICIAN.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE	
Steps to be Taken in Case Material is Released or Spilled - DIKE AND COLLECT MATERIAL INTO PLASTIC CONTAINERS. WATER RINSE AND DRAIN, FLUSH SMALL AMOUNTS NEUTRALIZE WITH SODA, ASH OR LIME. (BIODEGRADABLE)	
Waste Disposal Method - DISPOSE OF ACCORDING TO LOCAL, STATE AND FEDERAL HAZARDOUS WASTE REGULATIONS; USE SANITARY LANDFILL. EPA WASTE NO. D002	
Precautions to be Taken in Handling and Storage - USE ADEQUATE VENTILATION. DO NOT MIX WITH OTHER CHEMICALS. AVOID PROLONGED CONTACT. KEEP FROM FREEZING AND EXCESSIVE HEAT	
Other Precautions - STORE IN SECURE AREA. AVOID FOOD OR FEED CONTAMINATION. RINSE EMPTY CONTAINERS BEFORE DISPOSAL. KEEP OUT OF REACH OF CHILDREN!	

SECTION VIII - CONTROL MEASURES	
Respiratory Protection - USE IN WELL VENTILATED AREA, FOLLOW DIRECTIONS, AVOID INHALING MIST.	
Ventilation	Local Exhaust - RECOMMENDED
	Mechanical - N.A.
	Special - N.A.
	Other - ASSURE FRESH AIR CIRCULATION.
Protective Gloves	- REQUIRED: RUBBER, PLASTIC
Eye Protection	- REQUIRED: SAFETY GLASSES, GOGGLES
Other Protection	- RECOMMENDED: RUBBER OR PLASTIC APRON, EYE WASH
Work/Hygiene Practices - DO NOT EAT, DRINK OR SMOKING NEXT TO MATERIAL. WASH HANDS/FACE AFTER WORK.	

SECTION IX - TRANSPORTATION		49 CFR	
Unit Cont. - 55,30,1 GAL., 1 QT, PLASTIC	Report Qty. (lbs) - NA.	OSHA - IRRITANT	Labels - CORROSIVE
DOT - HAZARDOUS /X/ CORROSIVE MATERIAL	UN - HAZARDOUS /X/ CORROSIVE LIQUID, PACKAGING GROUP III	DOT: HAZARDOUS /X/ COMPOUND, CLEANING, LIQUID, CORROSIVE MATERIAL, NA 1760	
UN: HAZARDOUS /X/ CORROSIVE LIQUID, N.O.S. (PHOSPHORIC ACID) 8 UN1760			

Vendor assumes no responsibility for injury to vendee or third person proximately caused if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Further more, vendee assumes the risk in use of the material.

NFPA Rating: Health 2 Flammability 2 Reactivity 0 Special 0		Hazard Rating: Health 2 Flammability 2 Reactivity 0 Personal Protection B			
<b>Material Safety Data Sheet</b>		DOT HAZARD CLASSIFICATION: ORN-D			
This MSDS complies with OSHA's Hazard Communication Standard 29 CFR 1910.1200 and OSHA FORM 174.		Identity (Trade Name As Used On Label) MISTY FURNITURE POLISH			
MANUFACTURER'S NAME AMREP, INC.		MSDS Number 135-0			
ADDRESS 990 Industrial Park Drive Marietta, Georgia 30067		CHEM TREC: 1-800-424-9300			
Phone Number (For Information) (404) 386-3003		Date Prepared 2/20/90			
Emergency Phone Number (404) 386-3003		Prepared By IHJ/STH			
NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA					
SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION					
COMPONENTS - Chemical Name & Common Name (Hazardous Components 1% or greater; Carcinogen 0.1% or greater)	CAS Number	APPROX. % (wt)	OSHA PEL (ppm)	ACGIH TLV (ppm)	CARCINOGEN REFERENCE SOURCE*
Petroleum distillates	68551-15-5	22	NC	NC	d
Isobutane	75-28-5	12	1000	1000	d
<p>INDICATE THIS PRODUCT MAY CONTAIN ONE OF THE LISTED SUBS (SEE III) SECTION III</p> <p>47-64-1 Acetone 75-55-8 1,1,1-Trichloroethane 12643-61-7 Tetraethyl Lead 50-00-0 Ethylacetate 15-09-1 Methylene chloride 7440-26-2 Phosphoric Acid 42-86-1 Methanol 109-22-1 Ethylene glycol 7813-46-8 Silver nitrate 91-44-3 acetone 114-24-1 Propane 7440-92-1 Sulfuric Acid 55-35-7 7,6-0 104-88-3 Toluene 7440-45-6 Zinc (dust) 71-43-3 Methylcellosolve 121-18-4 Isobutylmethacrylate 2447-01-0 Hydrochloric acid 28-121-2 sec-butyl alcohol 133-20-7 Nitrochloroform 15080-20-3 Styrene, polymer (styrene) *Hazardous chemical agents 76-11-1 Form II</p>					
<p>RECEIVED</p> <p>BOARD OF HEALTH</p>					
SECTION 2 - PHYSICAL / CHEMICAL CHARACTERISTICS					
Boiling Point	NA	Specific Gravity (M.O. 1)	Concentration (Only)	D. 905	
Vapor Pressure (at 70°F (Aerosols))	Haz. 60	Vapor Pressure (Non-Aerosols) (mm Hg and Temperature)	NA		
Vapor Density (Air = 1)	NC	Evaporation Rate	NA		
Solubility in Water	Partial	Water Reactivity	No		
Appearance and Odor	Cream color, lemon fragrance.				
SECTION 3 - FIRE AND EXPLOSION HAZARD DATA					
FLAMMABILITY as per USA FLAME PROJECTION TEST (AEROSOL) COMBUSTIBLE	Auto-ignition Temperature	Flammability Limits in Air % by Volume	LEL	UFL	HF
Flash Point and Method Used (Non-Aerosols)	NA				
Extinguishers	Foam, dry chemical, carbon dioxide, water fog.				
Special Fire Fighting Procedures	Self contained breathing apparatus				
Unusual Fire and Explosion Hazards: Do not expose aerosols to temperatures above 130° F or the container may rupture.					

\*Optional

Chemical listed as Carcinogen or Potential Carcinogen  NTP  OSHA  Animal   
 IARC Monograph  Not Listed  Other



**SECTION 4 - REACTIVITY HAZARD DATA** 135-0

**Stability**  
 Stable  
 Unstable  
 Conditions To Avoid: Open flame, welding area, heat, sparks

**Reactivity**  
 Stable to Avoid  
 Strong oxidizers

**Hazardous Composition Products**  
 CB, CO<sub>2</sub>

**HAZARDOUS POLYMERIZATION**  
 May occur  
 Will Not Occur  
 Conditions To Avoid: None Known

**SECTION 5 - HEALTH HAZARD DATA**

**PRIMARY ROUTES OF ENTRY**  
 Inhalation  
 Ingestion  
 Not Hazardous  
 Skin Absorption  
 Eye

**ACUTE EFFECTS**

**Inhalation**  
 Excessive inhalation of vapors can be harmful and may cause headache, dizziness, asphyxia, anesthetic effects and possible unconsciousness.

**Eye Contact**  
 Slight irritation.

**Skin Contact**  
 Slight irritation.

**Ingestion**  
 Possible chemical pneumonitis if aspirated into lungs. Nausea.

**CHRONIC EFFECTS** (Effects due to excessive exposure to the raw materials of this mixture)  
 Petroleum distillate has caused kidney injury in laboratory animals. Stomach and intestine irritant.

**Medical Conditions Generally Aggravated by Exposure**  
 May aggravate existing eye, skin, or upper respiratory conditions.

**EMERGENCY FIRST AID PROCEDURES -**

**Eye Contact**  
 Flush with water for 15 minutes. If irritated, see physician.

**Skin Contact**  
 Wash with soap and water. If irritated, see physician.

**Inhalation**  
 Remove to fresh air. Resuscitate if necessary. Get medical aid.

**Ingestion**  
 DO NOT INDUCE VOMITING. CALL PHYSICIAN IMMEDIATELY.

**SECTION 6 - CONTROL AND PROTECTIVE MEASURES**

**Respiratory Protection (Specify Type)**  
 If vapor conc. exceeds TLV, use respirator approved by U.S. Bureau of Mines for organic vapor.

**Protective Gloves**  
 Latex, if skin easily irritated.

**Eye Protection**  
 Safety glasses recommended

**Other Protective Clothing and Equipment**  
 None

**Hygiene Work Practices**  
 Wash with soap and water before handling food. Remove contaminated clothing.

**SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE / LEAK PROCEDURES**

**Steps to be Taken if Material is Spilled or Released**  
 Absorb with suitable medium. Incinerate or landfill according to local, state, or federal regulations. Do not flush to sewer.

**Waste Disposal Methods**  
 Aerosol cans when vented to atmospheric pressure through normal use, pose no disposal hazard.

**Precautions to be Taken in Handling and Storage**  
 Do not puncture or incinerate containers. Do not store at temperatures above 130°F.

**Other Precautions and / or Special Hazards**  
 Avoid food contamination. KEEP OUT OF REACH OF CHILDREN. Remove ignition sources. Avoid breathing vapors.

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, express or implied.

MSDS Rating: Health 2, Flammability 3, Reactivity 0, Special 0

**Material Safety Data Sheet**

This MSDS complies with OSHA's Hazard Communication Standard 29 CFR 1910.1200 and OSHA FORM 174.

**Manufacturer's Name:** AMREP, INC.

**Address:** 990 Industrial Park Drive, Marietta, Georgia 30067

**Phone Number (For Information):** (404) 786-3083

**Emergency Phone Number:** (404) 786-3083

**DOT HAZARD CLASSIFICATION:** DRH-D

**Identify (Trade Name as Used on Label):** MIGHTY ANTI-CRAWL RESIDUAL INSECTICIDE

**MSDS Number:** A25-0

**CHEM TREC:** 1-800-424-9300

**Date Prepared:** 8/15/89

**Prepared By:** THJ/SIH

**NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA**

**SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION**

Component - Chemical Name & Common Name (Maximum Concentration by weight, Distillates 2% or greater)	CAS Number	APPROX. % (wt)	OSHA PEL (ppm)	ACGIH TLV (ppm)	STANDARD SOURCE
Petroleum distillates	8052-41-3	31.5	500	100	d
Isobutene/Propane blend	12-38-2	23.636	1000	1000	d
Propagur	114-76-1	0.5	NC	NC	d
n-Octyl Dicyclopentane Dicarboxylate	113-48-4	0.166	NC	NC	w
Pyrethrin	8003-34-3	0.1	500/1	500/1	d
Piperonyl butoxide	51-03-6	0.1	NC	NC	d
Methyl chitosane	71-95-4	29	350	350	d
Isopropenol	67-63-0	0	400	400	d

NOTE: THIS PRODUCT DOES NOT CONTAIN ONE OF THE LISTED SOLUBLE ILLIcIT DRUGS

OTHERS:

67-63-0 Isopropenol	11-05-6 1,1,1-Trichloroethane	1169-02-1 Isobutene
50-08-0 Isobutene	33-09-1 Polyisobutylene	266-18-3 Phosphoric Acid
51-03-6 Piperonyl butoxide	100-21-1 Ethylene glycol	74-86-2 Sulfur dioxide
54-00-7 n-Propyl alcohol	111-26-1 Propene	2644-93-9 Sulfuric Acid
54-21-3 2-Ethoxyethanol	101-01-2 Ethanol	2644-93-9 Sulfuric Acid
74-83-3 Methoxyethanol	122-18-8 Isobutylalcohol	2644-93-9 Sulfuric Acid
76-92-2 Methyl alcohol	122-17-7 Isobutylalcohol	1240-20-3 Hydrochloric Acid
		36-31-1 Formic Acid

**SECTION 2 - PHYSICAL / CHEMICAL CHARACTERISTICS**

<b>Boiling Point</b>	NA	<b>Specific Gravity (15.0°C)</b>	0.900
<b>Vapor Pressure</b>	Max. 60	<b>Vapor Pressure (Non-Aerosols) (mm Hg and Temperature)</b>	NA
<b>Vapor Density (Air = 1)</b>	NC	<b>Evaporation Rate</b>	NC
<b>Solubility in Water</b>	Insoluble	<b>Water Reactivity</b>	No

**Appearance and Odor:** Clear light straw colored liquid, insecticide/pineapple fragrance

**SECTION 3 - FIRE AND EXPLOSION HAZARD DATA**

<b>FLAMMABILITY as per USA FLAME PROTECTION TEST (AEROSOLS):</b> EXTREMELY FLAMMABLE	<b>Auto-Ignition Temperature:</b> NE	<b>Flammability Limits by Air % by Volume:</b> NE	<b>LEL:</b> NE	<b>UEL:</b> NC
--	--------------------------------------	---	----------------	----------------

**Flash Point and Method Used (Non-Aerosols):** NA

**Extinguisher Media:** Foam, dry chemical, carbon dioxide

**Special Fire Fighting Procedures:** Self contained breathing apparatus

**Unusual Fire and Explosion Hazards:** Do not expose aerosols to temperatures above 130°F or the container may rupture.

\*Optional: Chemical listed as Carcinogen, HTP, OSHA, Animal Data, IARC Monograph, Not listed



SECTION 4 - REACTIVITY HAZARD DATA		423-B
STABILITY	Conditions To Avoid	
<input checked="" type="checkbox"/> Stable	Open flame, welding arcs, heat, sparks	
<input type="checkbox"/> Unstable		
Incompatibility (Materials to Avoid)	Water, reactive metals, aluminum, magnesium, potassium, sodium, alkalis, strong oxidizing agents.	
Hazardous Decomposition Products	CO <sub>2</sub> , CO, HCl, small amounts of phosgene and chlorine.	
HAZARDOUS POLYMERIZATION	Conditions To Avoid	
<input type="checkbox"/> May occur	None Known	
<input checked="" type="checkbox"/> Will Not Occur		
SECTION 5 - HEALTH HAZARD DATA		
PRIMARY ROUTES OF ENTRY	<input checked="" type="checkbox"/> Inhalation	<input type="checkbox"/> Ingestion
	<input type="checkbox"/> Skin Absorption	<input type="checkbox"/> Eye
		<input type="checkbox"/> Not Hazardous
ACUTE EFFECTS		
Inhalation	Excessive inhalation of vapors can be harmful and may cause headache, dizziness, apathy, anesthetic effects and possible unconsciousness.	
Eye Contact	Irritation	
Skin Contact	Possible mild irritation due to defatting of skin.	
Ingestion	Possible chemical pneumonitis if aspirated into lungs. Anusens.	
CHRONIC EFFECTS	(Effects due to excessive exposure to the raw material of this mixture may cause cardiac demineralization, central nervous system depression, lung, kidney, liver damage, inhibits cholinesterase.)	
Medical Conditions Generally Aggravated by Exposure	May aggravate existing eye, skin, or upper respiratory conditions.	
EMERGENCY FIRST AID PROCEDURES		
Eye Contact	Flush with water for 15 minutes. If irritated, see physician.	
Skin Contact	Wash with soap and water. If irritated, see physician.	
Inhalation	Remove to fresh air. Resuscitate if necessary. Get medical aid.	
Ingestion	Atropine sulfate antidote. Call physician immediately. Treat like typical organic phosphate poisoning. Induce vomiting at physician's recommendations.	
SECTION 6 - CONTROL AND PROTECTIVE MEASURES		
Respiratory Protection (Specify Type)	If vapor conc. exceeds 11.V, use respirator approved by U.S. Bureau of Mines for organic vapor.	
Protective Gloves	Rubber gloves recommended.	Eye Protection
		Safety glasses recommended
VENTILATION REQUIREMENTS	Adequate ventilation to keep vapor concentration below 11.V.	
Other Protective Clothing and Equipment	None	
Hygienic Work Practices	Wash with soap and water before handling food. Remove contaminated clothing.	
SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE / LEAK PROCEDURES		
Steps to be Taken if Material is Spilled or Released	Absorb with suitable medium. Incinerate or landfill according to local, state, or federal regulations. Do not flush to sewer.	
Waste Disposal Methods	Aerosol cans when vented to atmospheric pressure through normal use, pose no disposal hazard.	
Precautions to be Taken in Handling and Storage	Do not puncture or incinerate containers. Do not store at temperatures above 130°F.	
Other Precautions and / or Special Hazards	Avoid food contamination. KEEP OUT OF REACH OF CHILDREN. Remove ignition sources. Avoid breathing vapors.	

We believe the statements, technical information and recommendations contained herein are reliable, but they

## SECTION I - IDENTITY

PERMA Incorporated  
605 Springs Road  
Bedford, MA. 01730

Telephone Number for Information  
508/667-5161  
Date Prepared  
01/13/91  
Prepared By T.Pitroffky

#20 PERMA TITLE

Hazardous -NO

Health	1
Flammability	0
Reactivity	0
Personal Protection	3

4 = Most Hazardous  
Emergency Phone Number  
1-800-255-3924 or Poison Center

## SECTION II - HAZARDOUS INGREDIENTS

Hazardous Components	PEL	TWA	STEL	Other Limits	% (opt)
CAS Reg#					

Not a hazardous mixture, as defined in 29 CFR 1910.1200 and M.G.L. c. 111F

CONTAINS: GLYCOL ETHERS\*

&lt;6

\*CHEMICAL CATEGORY SUBJECT TO REPORTING REQUIREMENTS OF SEC.313, TITLE III.

## SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling point	- 212F	Specific Gravity (Water=1)	- 1.04
Vapor Pressure (mm Hg)	- 18	Melting Point	- NA.
Vapor Density (air=1)	- 1.1	Evaporation Rate (Butyl Acetate=1)	- 0.36
Viscosity (cP)	- 12.5	Decomposition Temperature	- NA>
Auto Ignition Temp.	- NA.	Solubility in Water	- Complete
pH	- 9.0 +/- .5		
Appearance and Odor	- White milky emulsion		

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point - None

Flammable Limits

LEL - NA UEL - NA

Extinguishing media -NA

Fire Fighting Procedure - NA

Fire and Explosion Hazards - NA

## SECTION V - REACTIVITY DATA

Stability -Stable

Conditions to Avoid Freezing, extreme heat

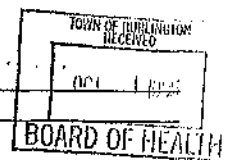
Incompatibility - Acids, oxidizers

Hazardous Decomposition or Byproduct - Thermal decomposition may yield carbon monoxide

Hazardous Polymerization - Will not occur

Conditions to Avoid - NA

The information herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or results to be obtained from use thereof.  
Essentially similar to OSHA form # 174



## SECTION VI - HEALTH HAZARD DATA

Routes of entry:  
 Inhalation - NO      Skin - NO      Ingestion - NO

Health Hazards-Acute: Causes eye and skin irritation  
 CHRONIC: Redness of skin

Carcinogenicity: NO  
 NTP - NA      IARC Monographs - NA      OSHA Regulated - NO

Signs and Symptoms of Exposure - Itching irritating sensation

Medical Conditions Aggravated - NA

Emergency and First Aid Procedures - Wash contact areas with soap and water  
 INGESTION: Drink milk, water, fruit juice, induce vomiting with oil of  
 ipecac, get medical attention.

## SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled - Dike, collect  
 material into watertight container, rinse surface with clean water.

Waste Disposal Method - Use sanitary landfill disposal, (not a hazardous  
 waste) according to federal, state and local regulations. (RCRA, Subtitle  
 D.)

Precautions to be Taken in Handling and Storage - Do not mix with other  
 chemical, store away from heat. KEEP FROM FREEZING.

Other Precautions - KEEP AWAY FROM CHILDREN

## SECTION VIII - CONTROL MEASURES

Respiratory Protection - Not required with normal use.

Ventilation      Local Exhaust -NA  
                   Mechanical - -NA  
                   Special      -NA  
                   Other          -Assure fresh air circulation.

Protective Gloves - RECOMMENDED: Rubber, Plastic  
 Eye Protection    - RECOMMENDED: Safety glasses  
 Other Protection   - NA

Work/Hygienic Practices - Do not eat or drink next to material, wash hands  
 after work.

## SECTION IX - TRANSPORTATION      49 CFR

Unit Cont. - 55, 30, 5, 1 GAL. PLASTIC CONT      Report Qty. (lbs) - NA.  
 OSHA - NOT REGULATED      Labels - NO.  
 DOT - NOT REGULATED  
 UN - NOT REGULATED

Vendor assumes no responsibility for injury to vendee or third person proximately  
 caused if reasonable safety procedures are not adhered to as stipulated in  
 the data sheet. Additionally, vendor assumes no responsibility for injury to  
 vendee or third persons proximately caused by abnormal use of the material even  
 if reasonable safety procedures are followed. Further more, vendee assumes the  
 risk in use of the material.

## Material Safety Data Sheet

## SECTION I - IDENTITY

#66 HIGH SPEED MAINTAINER

Hazardous - NO

PERMA Incorporated  
 605 Springs Road  
 Bedford, MA. 01730

Health	1
Flammability	0
Reactivity	0
Personal Protection	R

Telephone Number for Information

508/667-5161

Date Prepared

01/13/81

Prepared By T. Pitrolffy

4 = Most Hazardous

Emergency Phone Number

1-800-255-3924 or Poison Center

## SECTION II - HAZARDOUS INGREDIENTS

Hazardous Components	PEL	TWA	STEL	Other Limits	%
CAS Reg#	--	--	--	--	(opt)

Not a hazardous mixture, as  
 defined in 29 CFR 1910.1200  
 and M.G.L. c. 111F

CONTAINS: GLYCOL ETHERS\*

\*CHEMICAL CATEGORY SUBJECT TO REPORTING REQUIREMENTS OF SEC. 313, TITLE III. <4

## SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling point	- 212F	Specific Gravity (Water=1)	- 1.02
Vapor Pressure (mm Hg)	- 18	Melting Point	- NA.
Vapor Density (air=1)	- 1.1	Evaporation Rate (Butyl Acetate=1)	- 0.36
Viscosity (cPS)	- 15	Decomposition Temperature	- N.A.
Auto Ignition Temp.	- N.A.	Solubility in Water	- Complete
pH	- 8.5 +/- .5		
Appearance and Odor	- Transparent Blue Liquid, Bouquet Odor		

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point - None      Flammable Limits  
 LEL - NA      UEL - NA

Extinguishing media -NA

Fire Fighting Procedure - NA

Fire and Explosion Hazards - NA

## SECTION V - REACTIVITY DATA

Stability - Stable  
 Conditions to Avoid Freezing, extreme heat

Incompatibility - Acids, oxidizers  
 Hazardous Decomposition or Byproduct - Thermal decomposition may yield  
 carbon monoxide  
 Hazardous Polymerization - Will not occur  
 Conditions to Avoid - NA

The information herein is based on data considered accurate. However, no  
 warranty is expressed or implied regarding the accuracy of these data or results  
 to be obtained from use thereof.  
 Essentially similar to OSHA Form # 174

## SECTION VI - HEALTH HAZARD DATA

Routes of entry:  
 Inhalation - NO      Skin - NO      Ingestion - NO

Health Hazards-Acute: Causes eye and skin irritation  
 CHRONIC: Redness of skin

Carcinogenicity: NO  
 NTP - NA      IARC Monographs - NA      OSHA Regulated - NO

Signs and Symptoms of Exposure - Itching irritating sensation

Medical Conditions Aggravated - NA

Emergency and First Aid Procedures - Wash contact areas with soap and water  
 INGESTION: Drink milk, water, fruit juice, induce vomiting with oil of  
 ipsecas, get medical attention.

## SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled - Dike, collect  
 material into watertight container, rinse surface with clean water.

Waste Disposal Method - Use sanitary landfill disposal, (not a hazardous  
 waste) according to federal, state and local regulations. (RCRA, Subtitle  
 D.)

Precautions to be Taken in Handling and Storage - Do not mix with other  
 chemical, store away from heat. KEEP FROM FREEZING.

Other Precautions - KEEP AWAY FROM CHILDREN

## SECTION VIII - CONTROL MEASURES

Respiratory Protection - Not required with normal use.

Ventilation      Local Exhaust -NA  
                   Mechanical      -NA  
                   Special            -NA  
                   Other                -Assure fresh air circulation

Protective Gloves - RECOMMENDED: Rubber, Plastic  
 Eye Protection - RECOMMENDED: Safety glasses  
 Other Protection - NA

Work/Hygienic Practices - Do not eat or drink next to material, wash hands  
 after work.

## SECTION IX - TRANSPORTATION

49 CFR

Unit Cont. - 55, 30, 5.1 Gal. Plastic Cont.      Report Qty. (Lbs) - N.A.  
 OSHA - NOT REGULATED      Labels - None  
 DOT - NOT REGULATED  
 UN - NOT REGULATED

Vendor assumes no responsibility for injury to vendee or third person proximately  
 caused if reasonable safety procedures are not adhered to as stipulated in  
 the data sheet. Additionally, vendor assumes no responsibility for injury to  
 vendee or third persons proximately caused by abnormal use of the material even  
 if reasonable safety procedures are followed. Further more, vendee assumes the  
 risk in use of the material.

## Material Safety Data Sheet

## SECTION I - IDENTITY

Fill LAVATROL      Hazardous - YES

PERMA Incorporated  
 605 Springs Road  
 Bedford, MA. 01730

Health	2
Flammability	0
Reactivity	1
Personal Protection	C

Telephone Number for Information  
 508/667-5161      4 = Most Hazardous  
 Date Prepared      Emergency Phone Number  
 01/15/81      1-800-255-3924 or Poison Center  
 Prepared By T. Bitrolffy

## SECTION II - HAZARDOUS INGREDIENTS

Hazardous Components, CAS Reg#	PEL mg/m3	TWA mg/m3	STEL mg/m3	Other limits mg/m3	% (opt)
*PHOSPHORIC ACID #7664-38	1	1	3		< 8
*HYDROGEN CHLORIDE #7647-01-0	N.A.	N.A.	N.A.	7	< 20
OXALIC ACID #144-62-7	1	1	2		< 3

CEILING

\*LISTED CHEMICAL SUBJECT TO REPORTING REQUIREMENT OF SECTION 313 OF TITLE III.

## SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling point	- 210F	Specific Gravity (Water=1)	- 1.04
Vapor Pressure (mm Hg)	- 18.5	Melting Point	- N.A.
Vapor Density (air=1)	- 1.1	Evaporation Rate (Butyl Acetate=1)	- 0.2
Viscosity (CPS)	- 5	Decomposition Temperature	- NA
Auto Ignition Temp.	- NA	Solubility in Water	- COMPLETE
pH - 1.5 +/-			
Appearance and Odor	- BLUE MILKY LIQUID WITH FRAGRANCE		

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point - N.A.      Flammable Limits  
 LEL - N.A.      UEL - N.A.

Extinguishing media - WATER

Fire Fighting Procedures - COOL CONTAINERS WITH WATER

Fire and Explosion Hazards - NON FLAMMABLE, BUT MAY REACT WITH MOST METALS  
 ON LONG CONTACT, WITH THE POSSIBLE EVOLUTION OF HYDROGEN

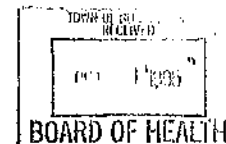
## SECTION V - REACTIVITY DATA

Stability - STABLE  
 Conditions to Avoid N.A.

Incompatibility - ALKALINE, CHLORINE AND CELLULOSE BASED MATERIALS  
 Hazardous Decomposition or Byproduct - HYDROGEN CHLORIDE GAS

Hazardous Polymerization - WILL NOT OCCUR  
 Conditions to Avoid - N.A.

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 warranty is expressed or implied regarding the accuracy of these data or results  
 to be obtained from use thereof.  
 Essentially similar to OSHA form # 174





## SECTION VI - HEALTH HAZARD DATA

Routes of entry:  
 Inhalation - YES      Skin - YES      Ingestion - YES

Health Hazards-Acute: CAUSES SEVERE CHEMICAL BURNS TO EYES, SKIN AND MUCOUS MEMBRANES. CHRONIC: CHEMICAL BURNS AND/OR ULCERATION OF SKIN, MAY PERMANENTLY DAMAGE EYES. TARGET ORGANS: EYES, RESP. SYS., UPPER GI. TRACT, SKIN

Carcinogenicity: NO  
 NTP - N.A.      IARC Monographs - N.A.      OSHA Regulated - NO

Signs and Symptoms of Exposure - REDNESS, IRRITATION OF EYES, SKIN OR MUCOUS MEMBRANES

Medical Conditions Aggravated - SENSITIZED SKIN

Emergency and First Aid Procedures - IMMEDIATELY WASH CONTACT AREAS (EYES) WITH LARGE QUANTITIES OF WATER FOR 15 MINUTRS.  
 INGESTION: DRINK LARGE AMOUNTS OF WATER OR MILK, CALL PHYSICIAN.

## SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled - DIKE AND COLLECT MATERIAL INTO PLASTIC CONTAINER, WATER RINSE AND DRAIN, FLUSH SMALL AMOUNTS NEUTRALIZE WITH SODA, ASH OR LIME. (BIODEGRADABLE)

Waste Disposal Method - DISPOSE OF ACCORDING TO LOCAL, STATE AND FEDERAL HAZARDOUS WASTE REGULATIONS; USE SANITARY LANDFILL.  
 EPA WASTE NO. D002

Precautions to be Taken in Handling and Storage -  
 USE ADEQUATE VENTILATION. DO NOT MIX WITH OTHER CHEMICALS.  
 AVOID PROLONGED CONTACT. KEEP FROM FREEZING AND EXCESSIVE HEAT

Other Precautions - STORE IN SECURE AREA. AVOID FOOD OR FEED CONTAMINATION. RINSE EMPTY CONTAINERS BEFORE DISPOSAL. KEEP OUT OF REACH OF CHILDREN

## SECTION VIII - CONTROL MEASURES

Respiratory Protection - USE IN WELL VENTILATED AREA, FOLLOW DIRECTIONS, AVOID INHALING MIST.

Ventilation      Local Exhaust - RECOMMENDED  
                   Mechanical      -N.A.  
                   Special            -N.A.  
                   Other              -ASSURE FRESH AIR CIRCULATION.

Protective Gloves; - REQUIRED: RUBBER, PLASTIC  
 Eye Protection    - REQUIRED: SAFETY GLASSES, GOGGLES  
 Other Protection - RECOMMENDED: RUBBER OR PLASTIC APRON, EYE WASH

Work/Hygiene Practices - DO NOT EAT, DRINK OR SMOKE NEXT TO MATERIAL.  
 WASH HANDS/FACE AFTER WORK.

## SECTION IX - TRANSPORTATION

49 CFR

Unit Cont. - 55, 30.1 GAL., 1 QT. PLASTIC      Report Qty. (lbs) - NA  
 OSHA - IRRITANT      Labels - CORROSIVE  
 DOT - HAZARDOUS /X/ CORROSIVE MATERIAL  
 UN - HAZARDOUS /X/ CORROSIVE LIQUID, PACKAGING GROUP II

DOT: HAZARDOUS /X/ COMPOUND, CLEANING, LIQUID, CORROSIVE MATERIAL, NA 1789  
 UN: HAZARDOUS /X/ CORROSIVE LIQUID, N.O.S. (HYDROGEN CHLORIDE) 8 UN1760 -

Vendor assumes no responsibility for injury to vendee or third person proximately caused if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Further more, vendee assumes the risk in use of the material.

## Material Safety Data Sheet

## SECTION I - IDENTITY

PERMA Incorporated  
 605 Springs Road  
 Bedford, MA. 01730

Telephone Number for Information  
 508/667-5161  
 Date Prepared  
 01/16/91  
 Prepared By A.Vadasz

Urethane Finish #550/555

Hazardous -YES

Health	1
Flammability	2
Reactivity	0
Personal Protection	B

4 = Most Hazardous  
 Emergency Phone Number:  
 1-800-255-3924 or Poison Center

## SECTION II - HAZARDOUS INGREDIENTS

Hazardous Components CAS Reg#	PEL ppm	TWA ppm	STEL	Other Limits	% (opt)
Stoddard Solvent CAS# 8052 - 41 - 3	500	100			< 50

\*LISTED CHEMICAL SUBJECT TO REPORTING REQUIREMENT OF SCT.313 OF TITLE III.

## SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling point - 350F      Specific Gravity (Water=1) - 0.86  
 Vapor Pressure (mm Hg) - 1.5      Melting Point - N.A.  
 Vapor Density (air=1) - 4.5      Evaporation Rate (Butyl Acetate=1) - 0.08  
 Viscosity (CPS) - NA      Decomposition Temperature - NA.  
 Auto Ignition Temp. - NA      Solubility in Water - NEGLIGIBLE  
 pH - N.A. +/-  
 Appearance and Odor - CLEAR AMBER LIQUID, SOLVENT ODOR

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point - TOC 140 F      Flammable Limits  
 LEL - 0.7      UEL - 6.0

Extinguishing media - CO2, FOAM, DRY CHEMICAL

Fire Fighting Procedure - COOL CONTAINERS WITH WATER, USE SELF CONTAINED BREATHING APPARATUS, BURNING PRODUCT IS TOXIC

Fire and Explosion Hazards - CLOSED CONTAINERS MAY BURST WHEN EXPOSED TO EXTREME HEAT. ISOLATE FROM HEAT, SPARKS, OPEN FLAME.

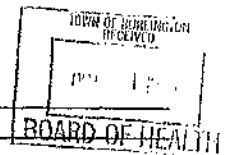
## SECTION V - REACTIVITY DATA

Stability - STABLE  
 Conditions to Avoid HEAT, SPARKS, OPEN FLAME

Incompatibility - STRONG OXIDIZING AGENTS.  
 Hazardous Decomposition or Byproduct - THERMAL DECOMPOSITION MAY YIELD CARBON MONOXIDE.

Hazardous Polymerization - WILL NOT OCCUR  
 Conditions to Avoid - N.A.

The information herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or results to be obtained from use thereof.  
 Essentially similar to OSHA form # 174



## SECTION VI - HEALTH HAZARD DATA

Routes of entry:  
 Inhalation - YES      Skin - NO      Ingestion - YES

Health Hazards-Acute: CAUSES EYE IRRITATION, DRYING OF SKIN, DIZZINESS  
 CHRONIC: RESPIRATORY TRACT IRRITATION, DERMATITIS  
 TARGET ORGANS: SKIN, EYES, RESPIRATORY SYSTEM

Carcinogenicity: NO  
 NTP - N.A.      IARC Monographs - N.A.      OSHA Regulated - YES

Signs and Symptoms of Exposure - IRRITATION AND REDNESS OF SKIN,  
 DIZZINESS

Medical Conditions Aggravated - DERMATITIS  
 BRONCHO-PULMONARY PROBLEMS

Emergency and First Aid Procedures - EYES/SKIN CONTACT: BLOT WITH TOWEL, FLOSH  
 WITH LARGE QUANTITIES OF WATER. INHALATION: REMOVE TO FRESH AIR.  
 INGESTION: INDUCE VOMITING, GET IMMEDIATE MEDICAL ATTENTION

## SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled - DIKE AND  
 COLLECT MATERIAL INTO METAL CONTAINER. USE NON-SPARKING TOOLS. USE WATER  
 OR FOM SPRAY TO LESSEN FIRE HAZARD. USE ABSORBENT FOR SMALL SPILL.

Waste Disposal Method - RECYCLE, INCINERATE, OR USE HAZARDOUS WASTE MANAGE-  
 MENT FACILITY FOR DISPOSAL ACCORDING TO STATE AND FEDERAL REGULATIONS,  
 EPA WASTE NO. D001

Precautions to be Taken in Handling and Storage - COMBUSTIBLE, KEEP  
 AWAY FROM HEAT, SPARKS AND OPEN FLAME. USE ADEQUATE VENTILATION. AVOID  
 PROLONGED OR REPEATED CONTACT.

Other Precautions - STORE IN SECURE AREA. DISPOSE OF EMPTY CONTAINERS SAFELY  
 KEEP OUT OF REACH OF CHILDREN

## SECTION VIII - CONTROL MEASURES

Respiratory Protection - USE SELF-CONTAINED BREATHING APPARATUS FOR  
 CONCENTRATIONS ABOVE THRESHOLD LIMIT VALUE.

Ventilation      Local Exhaust -RECOMMENDED

                  Mechanical -REQUIRED; EXCHANGE EVERY 10-15 MIN.

                  Special      -BLOW AIR INTO PITS AND DEPRESSIONS

                  Other        -ASSURE FRESH AIR CIRCULATION

Protective Gloves - REQUIRED: RUBBER, PLASTIC

Eye Protection    - REQUIRED: SAFETY GLASSES

Other Protection    - APRON OR SHOP COAT RECOMMENDED

Work/Hygiene Practices - DO NOT EAT/DRINK OR SMOKE NEXT TO MATERIAL.  
 WASH HANDS/FACE AFTER WORK.

## SECTION IX - TRANSPORTATION

49 CFR

Unit Cont. - 55,30,5,1 GAL. METAL CONT.      Report Qty. (Lbs) - NA

OSHA - CLASS II. COMBUSTIBLE LIQUID      Labels - UN-FLAMMABLE LQ

DOT - COMBUSTIBLE LIQUID-EXEMPT PER 49 CFR 173.118A

UN - HAZARDOUS /X/ FLAMMABLE LIQUID-PACKAGING GROUP III

DOT-PAINT, COMBUSTIBLE LIQUID, UN1263

UN- HAZARDOUS /X/ PAINT 3 UN1263

Vendor assumes no responsibility for injury to vendee or third person proxim-  
 ately caused if reasonable safety procedures are not adhered to as stipulated in  
 the data sheet. Additionally, vendor assumes no responsibility for injury to  
 vendee or third persons proximately caused by abnormal use of the material even  
 if reasonable safety procedures are followed. Further more, vendee assumes the  
 risk in use of the material.

## Material Safety Data Sheet

## SECTION I - IDENTITY

PERMA Incorporated  
 605 Springs Road  
 Redford, MA. 01730

Telephone Number for Information  
 508/667-5161  
 Date Prepared  
 01/16/91  
 Prepared By A. Vadaaz

Urethane Finish #5500451

Hazardous -YES

Health	1
Flammability	2
Reactivity	0
Personal Protection	B

4 = Most Hazardous  
 Emergency Phone Number  
 1-800-255-3924 or Poison Center

## SECTION II - HAZARDOUS INGREDIENTS

Hazardous Components CAS Reg#	PEL ppm	TWA ppm	STEL	Other Limits	% (opt)
Stoddard Solvent CAS# 6052 - 41 - 3	500	100			< 60

\*ASTERISKED CHEMICAL SUBJECT TO REPORTING REQUIREMENT OF SEC.313 TITLE III.

## SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling point	- 310F	Specific Gravity (Water=1)	- 0.87
Vapor Pressure (mm Hg)	- 2.0	Melting Point	- N.A.
Vapor Density (air=1)	- 4.5	Evaporation Rate (Butyl Acetate=1)	- 0.08
Viscosity (CPS)	- NA.	Decomposition Temperature	- NA.
Auto Ignition Temp.	- NA.	Solubility in Water	-NEGLIGIBLE
pH - N.A. +/-			
Appearance and Odor	- CLEAR AMBER LIQUID, AROMATIC ODOR		

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point - TCC 105 F      Flammable Limits  
 LEL - 0.7      UEL - 6.0

Extinguishing media -CO2, FOAM, DRY CHEMICAL

Fire Fighting Procedure - COOL CONTAINERS WITH WATER.

Fire and Explosion Hazards - CLOSED CONTAINERS MAY BURST WHEN EXPOSED TO  
 EXTREME HEAT. ISOLATE FROM HEAT, SPARKS AND OPEN FLAME.

## SECTION V - REACTIVITY DATA

Stability -STABLE  
 Conditions to Avoid HEAT, SPARKS, OPEN FLAME OR FIRE

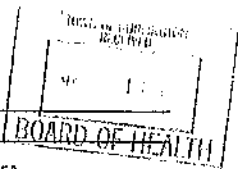
Incompatibility - STRONG OXIDIZING AGENTS.

Hazardous Decomposition or Byproduct - THERMAL DECOMPOSITION MAY YIELD  
 CARBON MONOXIDE AND DIOXIDE

Hazardous Polymerization - WILL NOT OCCUR

Conditions to Avoid - N.A.

The information herein is based on data considered accurate. However, no  
 warranty is expressed or implied regarding the accuracy of these data or results  
 to be obtained from use thereof.  
 Essentially similar to OSHA form # 174



SECTION VI - HEALTH HAZARD DATA		
Routes of entry: Inhalation - YES	Skin - NO	Ingestion - YES
Health Hazards-Acute: CAUSES EYE IRRITATION, DRYING OF SKIN, DIZZINESS CHRONIC: RESPIRATORY TRACT IRRITATION, DERMATITIS TARGET ORGANS: SKIN, EYES, RESPIRATORY SYSTEM		
Carcinogenicity: NO NTP - N.A., IARC Monographs - N.A., OSHA Regulated - YES		
Signs and Symptoms of Exposure - IRRITATION AND REDNESS OF SKIN, DIZZINESS		
Medical Conditions Aggravated - DERMATITIS BRONCHIO-PULMONARY PROBLEMS		
Emergency and First Aid Procedures - EYE/SKIN CONTACT: BLOT WITH TOWEL, FLUSH WITH LARGE QUANTITIES OF WATER. INHALATION: REMOVE TO FRESH AIR. INGESTION: INDUCE VOMITING, GET IMMEDIATE MEDICAL ATTENTION		
SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE		
Steps to be Taken in Case Material is Released or Spilled - DIKE AND COLLECT MATERIAL INTO METAL CONTAINER. USE NON-SPARKING TOOLS. USE WATER OR FOAM SPRAY TO LESSEN FIRE HAZARD. USE ABSORBENT FOR SMALL SPILL.		
Waste Disposal Method - RECYCLE, INCINERATE, OR USE HAZARDOUS WASTE MANAGE- MENT FACILITY FOR DISPOSAL ACCORDING TO STATE AND FEDERAL REGULATIONS. EPA WASTE NO. D001		
Precautions to be Taken in Handling and Storage - COMBUSTIBLE, KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. USE ADEQUATE VENTILATION. AVOID PROLONGED OR REPEATED CONTACT.		
Other Precautions - STORE IN SECURE AREA. DISPOSE OF EMPTY CONTAINERS SAFELY KEEP OUT OF REACH OF CHILDREN		
SECTION VIII - CONTROL MEASURES		
Respiratory Protection - USE SELF-CONTAINED BREATHING APPARATUS FOR CONCENTRATIONS ABOVE THRESHOLD LIMIT VALUE.		
Ventilation	Local Exhaust	-RECOMMENDED
	Mechanical	-REQUIRED; EXCHANGE EVERY 10-15 MIN.
	Special	-BLOW AIR INTO PITS AND DEPRESSIONS
	Other	-ASSURE FRESH AIR CIRCULATION
Protective Gloves	- REQUIRED: RUBBER, PLASTIC	
Eye Protection	- REQUIRED: SAFETY GLASSES	
Other Protection	- APRON OR SHOP COAT RECOMMENDED	
Work/Hygienic Practices - DO NOT EAT/DRINK OR SMOKE NEXT TO MATERIAL. WASH HANDS/FACE AFTER WORK.		
SECTION IX - TRANSPORTATION 49 CFR		
Unit Cont. - 55,30,5,1 GAL. METAL CONT.	Report Qty. (Lbs) - NA.	
OSHA - CLASS II. COMBUSTIBLE LIQUID	Labels - UN-FLAMMABLE LQ	
DOT - COMBUSTIBLE LIQUID-EXEMPT PER 49 CFR 173.118A		
UN - HAZARDOUS /X/ FLAMMABLE LIQUID-PACKAGING GROUP III		
DOT-PAINT, COMBUSTIBLE LIQUID, UN1263 UN- HAZARDOUS /X/ PAINT 3 UN1263		

Vendor assumes no responsibility for injury to vendee or third person proximately caused if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Further more, vendee assumes the risk in use of the material.

## Material Safety Data Sheet

May be used to comply with  
OSHA's Hazard Communication Standard,  
29 CFR 1910.1200. Standard must be  
consulted for specific requirements.

## U.S. Department of Labor

Occupational Safety and Health Administration  
(Non-Mandatory Form) HSDS NO. F-0151-1

Form Approved  
OMB No. 1218-0072

\*Not applicable

IDENTITY (As Used on Label and List)  
SF-BROHTI Black Toner

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

## Section I

Distributor's Name Sharp Electronics Corporation	Emergency Telephone Number 201-529-9273
Address (Number, Street, City, State, and ZIP Code) Sharp Plaza, Mahwah, NJ 07430	Telephone Number for Information 201-529-8200
Manufacturer's Name Sharp Corporation	Date Prepared Sep. 30, 1988
Address 22-22, Nagaikicho, Abeno-ku, Osaka, JAPAN	Signature of Preparer (optional)

## Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Name(s); Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Carbon black (CAS No. 1333-86-4)	3.5 mg/m <sup>3</sup>	3.5 mg/m <sup>3</sup>	None	<5
None hazardous ingredients				
Styrene-Acrylate copolymer	-	Not listed	None	>92
Organic ammonium salt	-	Not listed	None	<2

## Section III - Physical/Chemical Characteristics

Boiling Point	n. a.	Specific Gravity (H <sub>2</sub> O = 1)	1.1
Vapor Pressure (mm Hg)	n. a.	Melting Point	n. a.
Vapor Density (AIR = 1)	n. a.	Evaporation Rate (Glycol Acetate = 1)	n. a.
Solubility in Water Negligible			
Appearance and Odor Fine, black powder, odorless			

## Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) n. a.	Flammable Limits	LEL n. a.	UEL n. a.
Extinguishing Media CO <sub>2</sub> , dry chemical, foam or water.			
Special Fire Fighting Procedures This material will burn in the case of fire.			
The decomposition products are CO, CO <sub>2</sub> , and NOx.			
Unusual Fire and Explosion Hazards This material has no unusual fire or explosion hazards.			

\*Responsible facility

OSHA 174, Sept. 1985

BOARD OF HEALTH

## Section V — Reactivity Data

Stability	Unstable	Conditions to Avoid	None
	Stable		

Incompatibility (Materials to Avoid)

None

Hazardous Decomposition or Byproducts

CO, CO<sub>2</sub> and NO<sub>x</sub>

Hazardous Polymerization

May Occur

Will Not Occur

Conditions to Avoid

None

## Section VI — Health Hazard Data

Route(s) of Entry: Inhalation?  Yes      Skin?  No      Ingestion?  Possible but very unusual

Health Hazards (Acute and Chronic)

LD<sub>50</sub> value of the toner in an oral acute toxicity test is over 5.0g/kg.

Carcinogenicity:

NTP?

No

IARC Monographs?

No

OSHA Registered?

No

Signs and Symptoms of Exposure

Minor irritation to respiratory tract may occur as with exposure to any non-toxic dust.

Medical Conditions

Generally Aggravated by Exposure

Accumulation of dust in the respiratory system.

Emergency and First Aid Procedures

Inhalation: Remove to fresh air if effects occur; consult local medical personnel.

Eyes: In case of contact, immediately flush eyes with water for 5 minutes.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

Sweep up or clean up with a vacuum cleaner.

Waste Disposal Method

Waste material may be dumped or incinerated under conditions which meet all federal, state and local environmental regulations.

Precautions to Be Taken in Handling and Storing

No special storage requirements for safety reasons.

Other Precautions

None

## Section VIII — Control Measures

Respiratory Protection (Specify Type)

None required under normal use

Ventilation	Local Exhaust	Special	No
	Mechanical (General)		
		Other	No

Protective Gloves

None required under normal use

Eye Protection

None required under normal use

Other Protective Clothing or Equipment

None required under normal use

Work Hygiene Practices

Inhalation should be avoided.





ASBESTOS HAZARD  
EMERGENCY RESPONSE ACT  
(AHERA)  
THREE YEAR REINSPECTION  
REPORT

FOX HILL ELEMENTARY SCHOOL  
BURLINGTON, MA

RECON PROJECT NO.:  
W50139FH

PREPARED FOR:

MR. WILLIAM KOUTROUBA  
BURLINGTON SCHOOL DEPARTMENT  
123 CAMBRIDGE STREET  
BURLINGTON, MA 01803

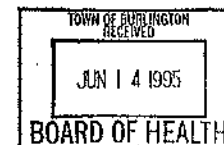
PREPARED BY:

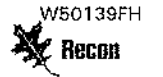
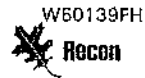
RECON ENVIRONMENTAL CORP.  
25 MATHEWSON DRIVE  
WEYMOUTH, MA 02189

DATE ISSUED:

MAY 15, 1995

\\ADMIN\DATA\PROJ\95\W50139FH

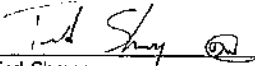




The Asbestos Hazard Emergency Response Act (AHERA) reinspection described herein was conducted by the undersigned, of Recon Environmental Corp. (RECON). RECON's investigation consisted solely of the reinspection activities required by the AHERA Regulation (40 CFR 763) and as described in RECON's Proposal Number W95-146. In addition, the reinspection was subject to the Limitations and Service Constraints provided in Appendix A and the Terms and Conditions of the Standard Consulting Agreement executed prior to commencement of the reinspection.

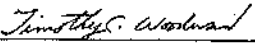
This reinspection report for the Fox Hill Elementary School, Burlington, Massachusetts, must be incorporated into the original Management Plan for the school.

Asbestos Survey Report Prepared by:

  
 Ted Sherry  
 Project Manager  
 Inspector License #102654

5/15/95  
 Date

AHERA Reinspection Report Reviewed and Approved by:

  
 Timothy C. Woodward  
 Operations Manager, Industrial Hygiene  
 Management Planner License # MPO1913

5/15/95  
 Date

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## 1.0 INTRODUCTION

Recon Environmental Corp. (RECON) was retained by the Burlington School Department to reinspect the Fox Hill Elementary School, Burlington, Massachusetts, in compliance with the Asbestos Hazard Emergency Response Act (AHERA) of October, 1987. To review prior asbestos-containing building information for the Fox Hill Elementary School, refer to the Fox Hill Elementary School Management Plan which is maintained at the main Local Education Agency (LEA) office and the Fox Hill Elementary School. The Reinspection was conducted by RECON's representative, Mr. Ted Sherry, Massachusetts Asbestos Inspector (License #102654) on March 14, 1995.

The objective of the reinspection was to maintain the Fox Hill Elementary School's compliance with the AHERA Regulation by visually reinspecting and reassessing the condition of all known or assumed asbestos-containing building materials (ACBM). In accordance with the regulation, RECON also visually inspected and reassessed materials that were previously considered non-friable ACBM and touched the material to determine whether it had become friable since the last inspection or reinspection.

All findings of this reinspection must be incorporated into the original Management Plan document for the Fox Hill Elementary School.

As described in the Reinspection Hazard Assessment Sheets included as Appendix C, RECON has identified any changes in quantity or condition of ACBM noted during the reinspection and has included updated response action recommendations, where appropriate. RECON has also provided an updated Hazard Priority Summary which indicates the priority of Homogeneous Areas and RECON's recommendation for addressing confirmed or assumed asbestos-containing material (ACM).

Under AHERA protocol, certain assessment criteria were used as the basis for recommended response actions. These assessment criteria were as follows: the existence of barriers, abnormal access features, activity in the area, air erosion, potential for fiber release, and existing damage.

Based on the aforementioned assessment criteria, RECON made recommendations for ACBM at the Fox Hill Elementary School. RECON's recommendations generally fall into six categories:

1. Homogeneous Areas which can be maintained under the Provisions of an Operations & Maintenance (O&M) Program;

2. Homogeneous Areas which should be properly removed immediately by a qualified abatement contractor;
3. Homogeneous Areas which should be removed when practical;
4. Homogeneous Areas requiring short-term, short-duration remedial measures (patch & repair) performed either by in-house maintenance personnel who have successfully completed the 16-hour O&M training course or by a qualified abatement contractor depending on the amount of material;
5. Homogeneous Areas requiring enclosure or spot repairs; and
6. Homogeneous Areas requiring encapsulation.

## 2.0 LOCAL EDUCATION AGENCY RESPONSIBILITIES

The Local Education Agency's (LEA) responsibilities regarding recordkeeping and other activities for the Fox Hill Elementary School's Asbestos Management Plan are defined in the Environmental Protection Agency (EPA) Rules and Regulations 40 CFR Part 763 (Asbestos-Containing Materials in Schools; Final Rule and Notice) and summarized as follows:

### 2.1 Completion of Asbestos-Related Activities

The AHERA Regulation 763.84(a) states that the LEA is responsible for ensuring that "any persons who perform inspections, reinspections, and periodic surveillance, develop and update management plans, develop and implement response actions, including operation & maintenance, are carried out in accordance with subpart E of this part.

### 2.2 Custodial/Maintenance Training

The AHERA regulation 763.92(a) states that the LEA shall "ensure, prior to the implementation of the O&M provisions of the Management Plan, that all members of its maintenance and custodial staff (custodians, electricians, heating/air conditioning engineers, plumbers, etc.) who may work in a building that contains ACBM receive awareness training of at least 2 hours, whether or not they are required to work with ACBM. New custodial and maintenance employees shall be trained within 60 days after commencement of employment". The LEA shall maintain all documentation regarding their training.

### 2.3 Building Occupant Notification

The AHERA regulation 763.84(c) states that the LEA shall "ensure that workers and building occupants, or their legal guardians, are informed at least once each school year about inspections, response actions, and post-response action activities, including periodic reinspection and surveillance activities that are planned or in progress".

### 2.4 Short Term Workers

The AHERA regulation 763.84(d) states that the LEA shall "ensure that short term workers (e.g. telephone repair workers, utility workers, or exterminators) who may come in contact with asbestos in a school are provided information regarding locations of ACBM and suspected ACBM assumed to be ACM".

### 2.5 Warning Labels

The AHERA regulation 763.84(e) states that "warning labels shall be posted in routine maintenance areas in accordance with Section 763.95".

### 2.6 Management Plan Responsibilities

The AHERA regulation 763.84(f) states that "management plans shall be made available for inspection and notification of such availability has been provided as specified in the management plan under Section 763.93(g)".

### 2.7 Designated Person

The AHERA regulation 763.84(g)(1) states that "the LEA shall designate a person to ensure that requirements under this section are properly implemented". Section 763.84(g)(2) further states that "the LEA shall ensure that the designated person receives adequate training to perform duties assigned under this section". All documentation regarding designated person training shall be maintained.

### 2.8 Conflict of Interest

The AHERA regulation 763.84(h) states that the LEA should "consider whether any conflict of interest may arise from the interrelationship

among accredited personnel and whether that should influence the selection of accredited personnel to perform activities under this subpart".

The Local Education Agency and each school within its jurisdiction must keep accurate records of relevant events with the management plan. Relevant events include:

### 2.9 Response Actions

Ensure accurate records are kept for any response action or preventative measure taken for ACBM. Provide a detailed description of the actions and information on sample analysis [see 40 CFR Part 763.94(b)].

### 2.10 Reinspection Documentation

For each reinspection; document the name and accreditation information of the inspector, the date of the reinspection, and any changes noted in the condition of the material.

### 2.11 Periodic Surveillance

For each periodic surveillance conducted; document the name of each person performing the surveillance, date of surveillance, and any changes in the condition of materials. Periodic surveillance inspection should be conducted every six months.

### 2.12 Required Cleanings

For each required cleaning; document the name of the person performing the cleaning, date of the cleaning, locations/areas cleaned, and the methods used.

### 2.13 Small-Scale, Short-Duration Activities

For each small-scale, short-duration activity; document the name and signature of the person performing the activity, activity start and completion dates, precise locations and a description of the activity and any preventative measures taken. If ACBM is removed, document the name and location of the storage or disposal facility.



#### 2.14 Maintenance Activities

For maintenance activities other than small-scale, short-duration activities: document the name and signature of the person performing the activity, their State accreditation and, if applicable, the accreditation number of each person conducting the activity, activity start and completion dates, precise locations, and if ACM is removed, the name and location of the storage or disposal facility.

#### 2.15 Fiber Release Episodes

For each fiber release episode: document the date and location of the release, method of repair, preventative or response actions taken, the name of each person performing the work, and if ACM is removed, the name and location of the storage or disposal facility.

### 3.0 REINSPECTION FINDINGS AND RECOMMENDATIONS

RECON performed a review of the original Burlington Schools Asbestos Management Plan and all accompanying documentation pertaining to employee training, patch and repair work performed under the O&M Program, and asbestos abatement operations that have taken place since the implementation of the O&M Program. The following information summarizes RECON's Findings and Recommendations:

#### 3.1 Warning Labels

RECON did not observe the presence of warning labels in routine maintenance areas at the Fox Hill Elementary School.

As per section 2.5 of this document and AHERA Regulation 763.95(a), "the LEA shall attach a warning label immediately adjacent to any friable and non-friable ACM and suspected ACM assumed to be ACM located in routine maintenance areas (such as boiler rooms) at each school building".

#### 3.2 Initial Cleaning

Upon review of the Management Plan, RECON did not observe records pertaining to initial and/or subsequent cleanings.

As per AHERA regulation 763.91(c), and Section 2.12 of this document: "Unless the building has been cleaned using equivalent methods within the previous 6 months, all areas of a school building

where friable ACM, damaged or significantly damaged thermal system insulation ACM, or friable suspected ACM assumed to be ACM are present shall be cleaned at least once after the completion of the inspection required by 763.95(a) and before the initiation of any response action, other than O&M activities or repair".

"For each time that cleaning under section 763.91(c) is performed, the LEA shall record the name of each person performing the cleaning, the date of such cleaning, the locations cleaned, and the methods used to perform such cleaning", as per the AHERA regulation section 763.94(e).

RECON recommends that if a reinspection/surveillance requires an initial or subsequent cleaning, proper documentation shall be implemented and included in the management plan.

#### 3.3 Short-Term Worker Notification

Upon review of the Management Plan documents, RECON did not observe any notification to short-term workers.

Section 2.4 of this document and AHERA regulation 763.84(d) requires that the LEA shall, "ensure that short-term workers (e.g., telephone repair workers, utility workers, or exterminators) who may come in contact with asbestos in a school are provided information regarding the locations of ACM and suspected ACM assumed to be ACM.

RECON recommends that any person categorized as a short-term worker be notified in writing, regarding the location of all ACM and suspect ACM identified in the school.

#### 3.4 Fiber Release Episodes

Upon review of the Management Plan documents, RECON did not observe any documentation regarding fiber release episodes.

Section 2.5 of this document and AHERA regulation 763.94(h) states that, "For each fiber release episode under 763.91(f), the LEA shall provide 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 ACM is removed, the name and location of storage or disposal site of the ACM".



RECON recommends that if a fiber release episode transpires, proper response actions must be implemented and documentation included in the management plan.

**3.5 Designated Person**

RECON did not observe training documentation for the LEA's appointed designated person. The following summarizes RECON's findings:

Name: \_\_\_\_\_  
 Title: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 Tel. #: (617) \_\_\_\_\_  
 Training: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Section 2.7 of this document and AHERA regulation 763.84(g)(2) states that "the LEA shall ensure that the designated person receives adequate training to perform duties assigned under this section".

RECON recommends that the LEA ensure proper training of the designated person in the following areas: health effects of asbestos; detection, identification, and assessment of ACM; options for controlling ACM; Asbestos Management programs; knowledge of relevant Federal, State, Occupational Safety and Health Administration (OSHA), and Department of Labor and Industries regulations.

**3.6 Custodial/Maintenance Training**

RECON did not observe training documentation for the schools custodial/maintenance staff.

RECON recommends that the Burlington Schools ensures that all maintenance personnel assigned to the Fox Hill Elementary School have or will receive, at a minimum, the two (2) hour asbestos-awareness training, as required by the AHERA regulation.



**3.7 Building Occupant Notification**

RECON did not observe yearly building occupant documentation regarding the status of the Management Plan document, ACM related activities and the availability of the Management Plan for review.

In accordance with the AHERA Regulation, RECON recommends that the LEA ensure that workers and building occupants, or their legal guardians, are informed at least once each school year about inspections, response actions, and post-response action activities, including periodic reinspection and surveillance activities that are planned or in progress.

**3.8 Response Actions Completed**

It was confirmed through documentation review and on-site inspection that the following Homogeneous Areas have been completely removed from the Fox Hill Elementary School. Asbestos abatement was performed by Dec-Tam Asbestos Abatement in July, August, October, and November of 1989.

CHART OF HOMOGENEOUS AREAS ABATED FROM THE BUILDING		
HOMOGENEOUS AREA	MATERIAL DESCRIPTION	MATERIAL LOCATION
T-04	Elbow Fitting Insulation	Above Ceilings and Behind Walls (Removed from above all suspended ceilings)
T-05	Emergency Generator Exhaust Insulation	Electrical Room
M-04	2' x 4' Suspended Ceiling Tiles	Bathroom, Cafeteria, Kitchen, Offices, etc.

Homogeneous Areas T-05, and M-04 have been removed from the Hazard Priority Listing.

**3.9 Periodic Surveillance**

RECON did not observe any records regarding periodic surveillance activities at the Fox Hill Elementary School.

RECON recommends that records of each future periodic surveillance be inserted into the management plan.

"At least once every 6 months after a management plan is in effect, each local education agency shall conduct periodic surveillance in each building that it leases, owns, or otherwise uses as a school building that contains ACBM or is assumed to contain ACBM", as per the AHERA regulation section 763.92 (b) (1).

**3.10 Three Year Reinspection**

RECON did not observe any records regarding previous AHERA Three Year Reinspections.

"At least once every 3 years after a Management Plan is in effect, each local education agency (LEA) shall conduct a reinspection of all friable and non-friable known or assumed ACBM in each school building that they lease, own, or otherwise use as a school building", as per the AHERA regulation section 763.85 (b) (1). Each AHERA Three Year Reinspection must be conducted by an accredited inspector.

**3.11 General**

All Asbestos-containing/suspect asbestos-containing homogeneous areas must be maintained under the provisions of an O&M Program as long as they remain in the Fox Hill Elementary School.

The Burlington Schools designated person must be notified of all scheduled renovations or demolitions that are to occur. Notification to the designated person allows for any possible disturbance of asbestos-containing materials to be prevented and for the proper handling of ACM at the Fox Hill Elementary School.

If materials are discovered that have not been listed in this reinspection report or the Initial Asbestos Management Plan, RECON recommends that they be treated as asbestos-containing until sampling can be performed to determine asbestos content.

The Reinspection Hazard Assessment Sheets for all confirmed and assumed Homogeneous Areas at the Fox Hill Elementary School are provided in Appendix C of this report. The updated Hazard Priority Summary included as section 4.0 shall become the main Hazard Priority List for the LEA.

**4.0 HAZARD PRIORITY SUMMARY**

The Hazard Priority Summary List ranks the Homogeneous Areas which contain asbestos according to their potential for fiber release. Based on material condition as observed during the inspector's survey, no areas require immediate abatement. However, locations requiring patch & repair and removal operations should be addressed in a timely manner. The response action selected by the LEA must be sufficient to protect human health and the environment, at a minimum. All asbestos abatement work must be completed in accordance with applicable federal, state and/or local regulations.

Factors which may influence decisions as to the patching and repair of damaged ACBM versus complete abatement, apart from an area's potential for fiber release, might include scheduled renovations, appropriate funding, or the availability of unoccupied areas (such as during vacation periods).

The Hazard Priority Summary List is as follows:

HOMOGENEOUS AREA	RECOMMENDED RESPONSE ACTION
T-01	O&M Program/Patch & Repair
M-01	O&M Program/Remove When Practical
T-02	O&M Program/Patch & Repair
T-03	O&M Program/Patch & Repair
T-04	O&M Program/Patch & Repair
M-02	O&M Program
M-03	O&M Program
S-01	O&M Program

W50139FH



## LIMITATIONS AND SERVICE CONSTRAINTS

### APPENDIX A

#### LIMITATIONS AND SERVICE CONSTRAINTS

All professional opinions presented in this report are based on information made available to us either by review of data provided by others or data gathered by RECON personnel.

RECON affirms that data gathered and presented by RECON in this report was collected in an appropriate manner in accordance with generally accepted methods and practices. RECON cannot be responsible for decisions made by our client solely on the basis of economic factors.

Conditions described in this report are as found at the time of investigation, unless otherwise stated.

RECON analyzed only the substances, conditions and locations described in the report at the time indicated. No inferences regarding other substances, conditions, location or time can be made unless specifically stated in this report.

No recommendations were provided for materials containing less than one percent asbestos. Materials containing less than one percent asbestos do not meet either the generally accepted industry definition of asbestos-containing material (any material containing greater than one percent asbestos) or the EPA definition of friable ACM (any material friable bulk insulation material containing greater than one percent asbestos by weight as analyzed by Polarized Light Microscopy.) RECON, however, makes no statement, implied or explicit, about the hazards of materials containing less than one percent asbestos.

This report is intended for the use listed in the section of this report described as the Introduction. The use of this report in any manner other than that listed in the Introduction requires the written consent of RECON Engineering and Testing Company, Inc. This report must be presented in its entirety.

F:\ADMIN\DAT\BOILER\PLIMITS.ASB



APPENDIX B

APPENDIX B  
 LOCATION OF REMAINING ACM

LOCATION OF REMAINING ACM FOX HILL ELEMENTARY SCHOOL BURLINGTON, MA				
LOCATION	MATERIAL DESCRIPTION	APPROXIMATE QUANTITY	CONDITION	HOMO. AREA
Inside boiler doors	Boiler gasket	3 sf	Undetermined	M-01
Outside & inside building	Blue & Gray transite siding panels	5,346 sf	Good	M-02
Classrooms, storage areas, offices, cafeteria and halls	12" X 12" floor tile and mastic in various colors	49,332 sf	O.K.	M-03
Cafeteria Walls	Hard plaster	1,500 sf	Good	S-01
Boiler room	Gray, fibrous material on hot water tank	126 sf	Damaged (5 sf)	T-01
Boiler room	Pipe fittings	85 lf	Good	T-02
Boiler room	Breeching insulation	40 lf	Good	T-03
Behind walls & ceilings	Elbow fitting insulation	undetermined	N/A	T-04



3-YEAR ASBESTOS REINSPECTION  
HAZARD ASSESSMENT SUMMARY SHEET

Project Number: W50139  
School: FOX HILL ELEMENTARY SCHOOL  
Homogeneous Area ID#: M-01  
Type of Material: MISCELLANEOUS  
Analysis Result: ASSUMED ASBESTOS  
Square/Linear Footage: 3  
EPA Assessment Category:

\*\*\*\*\* AREA DESCRIPTIONS \*\*\*\*\*

Homogeneous Area: THE MATERIAL IS BOILER GASKET  
Description

Location: MATERIAL IS LOCATED ON INSIDE OF THE BOILER DOORS  
\*\*\*\*\* ASSESSMENT CRITERIA - CURRENT CONDITIONS \*\*\*\*\*  
Existence of Barriers: NO Explain:  
Abnormal Access Features: YES Explain: MUST TRY OPEN

Air Erosion: LOW Maintenance Activities: LOW

Vandalism: Potential for fiber release: LOW

Comments: VANDALISM: NONE - NO ACCESS  
\*\*\*\*\* DAMAGE FACTORS \*\*\*\*\*  
Water: Percentage: %  
Physical: Percentage: %  
Probable Damage Sources: \* UNDETERMINED

Is this a change in condition, existing damage, or potential for fiber  
release from the original assessment? NO  
Explain:

\*\*\*\*\* RECOMMENDED RESPONSE ACTION (OVERALL) \*\*\*\*\*  
Recommended Action: OPERATIONS & MAINTENANCE PROGRAM, REMOVE WHEN PRACTICAL  
Is this a change in response action from the original  
recommendation? NO

Response Action Rationale:

\*\*\*\*\* TOTAL REMOVAL COST ESTIMATE \*\*\*\*\*

3 Sq./Lin. Feet x \$25.00/Foot = \$75.00

APPENDIX C  
HAZARD ASSESSMENT SUMMARY SHEETS

3-YEAR ASBESTOS REINSPECTION  
HAZARD ASSESSMENT SUMMARY SHEET

Project Number: W50139  
School: FOX HILL ELEMENTARY SCHOOL  
Homogeneous Area ID#: M-02  
Type of Material: SURFACING  
Analysis Result: 35%-45% ASBESTOS  
Square/Linear Footage: 5,346  
EPA Assessment Category: 1

\*\*\*\*\* AREA DESCRIPTIONS \*\*\*\*\*

Homogeneous Area: BLUE AND GREY TRANSITE SIDING PANELS  
Description

Location: OUTSIDE & INSIDE OF BUILDING

\*\*\*\*\* ASSESSMENT CRITERIA - CURRENT CONDITIONS \*\*\*\*\*

Existence of Barriers: NO Explain:  
Abnormal Access Features: NO Explain:

Air Erosion: MODERATE Maintenance Activities: LOW  
Vandalism: MODERATE Potential for fiber release: LOW

Comments:

\*\*\*\*\* DAMAGE FACTORS \*\*\*\*\*  
Water: LOW Percentage: <1%  
Physical: LOW Percentage: 2%  
Probable Damage Sources:

Is this a change in condition, existing damage, or potential for fiber  
release from the original assessment? NO  
Explain:

\*\*\*\*\* RECOMMENDED RESPONSE ACTION (OVERALL) \*\*\*\*\*

Recommended Action: OPERATIONS & MAINTENANCE PROGRAM  
Is this a change in response action from the original  
recommendation? NO

Response Action Rationale:

\*\*\*\*\* TOTAL REMOVAL COST ESTIMATE \*\*\*\*\*

5,346 Sq./Lin. Feet x \$30.00/Foot = \$160,380.00

3-YEAR ASBESTOS REINSPECTION  
HAZARD ASSESSMENT SUMMARY SHEET

Project Number: W50139  
School: FOX HILL ELEMENTARY SCHOOL  
Homogeneous Area ID#: M-03  
Type of Material: MISCELLANEOUS  
Analysis Result: NOT ANALYZED  
Square/Linear Footage: 49,332  
EPA Assessment Category: 1

\*\*\*\*\* AREA DESCRIPTIONS \*\*\*\*\*

Homogeneous Area: 12" X 12" FLOOR TILE AND MASTIC IN VARIOUS COLORS  
Description

Location: CLASSROOMS, STORAGE AREAS, OFFICES, CAFETERIA, HALLWAYS

\*\*\*\*\* ASSESSMENT CRITERIA - CURRENT CONDITIONS \*\*\*\*\*

Existence of Barriers: YES Explain: LIBRARY FLOOR TILE CARPETED  
Abnormal Access Features: NO Explain:

Air Erosion: LOW Maintenance Activities: LOW  
Vandalism: LOW Potential for fiber release:

Comments:

\*\*\*\*\* DAMAGE FACTORS \*\*\*\*\*  
Water: LOW Percentage: 2%  
Physical: LOW Percentage: 3%  
Probable Damage Sources: SLIGHT WATER DAMAGE & DETERIORATION FROM AGE AND  
USE

Is this a change in condition, existing damage, or potential for fiber  
release from the original assessment?  
Explain:

\*\*\*\*\* RECOMMENDED RESPONSE ACTION (OVERALL) \*\*\*\*\*

Recommended Action: OPERATIONS & MAINTENANCE PROGRAM  
Is this a change in response action from the original  
recommendation? NO

Response Action Rationale:  
REPLACE ANY DAMAGED TILES

\*\*\*\*\* TOTAL REMOVAL COST ESTIMATE \*\*\*\*\*

49,332 Sq./Lin. Feet x \$3.00 /Foot = \$147,996.00

3-YEAR ASBESTOS REINSPECTION  
HAZARD ASSESSMENT SUMMARY SHEET

Project Number: W50139  
School: FOX HILL ELEMENTARY SCHOOL  
Homogeneous Area ID#: S-01  
Type of Material: SURFACING  
Analysis Result: ASSUMED ASBESTOS  
Square/Linear Footage: 1,500  
EPA Assessment Category:

\*\*\*\*\* AREA DESCRIPTIONS \*\*\*\*\*

Homogeneous Area: HARD PLASTER  
Description

Location: ON CAFETERIA WALLS  
\*\*\*\*\* ASSESSMENT CRITERIA - CURRENT CONDITIONS \*\*\*\*\*  
Existence of Barriers: NO Explain:  
Abnormal Access Features: NO Explain:

Air Erosion: LOW Maintenance Activities: LOW  
Vandalism: LOW Potential for fiber release:

Comments:  
\*\*\*\*\* DAMAGE FACTORS \*\*\*\*\*  
Water: LOW Percentage: 1%  
Physical: LOW Percentage: 1%  
Probable Damage Sources:

Is this a change in condition, existing damage, or potential for fiber  
release from the original assessment? NO  
Explain:

\*\*\*\*\* RECOMMENDED RESPONSE ACTION (OVERALL) \*\*\*\*\*  
Recommended Action: OPERATIONS & MAINTENANCE PROGRAM  
Is this a change in response action from the original  
recommendation?

Response Action Rationale:

\*\*\*\*\* TOTAL REMOVAL COST ESTIMATE \*\*\*\*\*  
1,500 Sq./Lin. Feet x \$30.00/Foot = \$45,000.00

3-YEAR ASBESTOS REINSPECTION  
HAZARD ASSESSMENT SUMMARY SHEET

Project Number: W50139  
School: FOX HILL ELEMENTARY SCHOOL  
Homogeneous Area ID#: T-01  
Type of Material: THERMAL  
Analysis Result: 30%-50% ASBESTOS  
Square/Linear Footage: 126  
EPA Assessment Category: 4

\*\*\*\*\* AREA DESCRIPTIONS \*\*\*\*\*

Homogeneous Area: GRAY, FIBROUS INSULATION MATERIAL ON HOT WATER TANK  
Description

Location: IN BOILER ROOM  
\*\*\*\*\* ASSESSMENT CRITERIA - CURRENT CONDITIONS \*\*\*\*\*  
Existence of Barriers: NO Explain:  
Abnormal Access Features: NO Explain:

Air Erosion: LOW Maintenance Activities: LOW  
Vandalism: LOW Potential for fiber release: MODERATE

Comments:  
\*\*\*\*\* DAMAGE FACTORS \*\*\*\*\*  
Water: MODERATE Percentage: 5% LOCALIZED  
Physical: MODERATE Percentage: 5% LOCALIZED  
Probable Damage Sources: ABOUT 2 YEARS AGO A WATER LEAK ON THE TANK CREATED  
5 SF OF ASBESTOS DAMAGE

Is this a change in condition, existing damage, or potential for fiber  
release from the original assessment? YES  
Explain: 5 SF OF T&I FROM THE TANK WAS ABATED FOR REPAIR PURPOSES

\*\*\*\*\* RECOMMENDED RESPONSE ACTION (OVERALL) \*\*\*\*\*  
Recommended Action: OPERATIONS & MAINTENANCE PROGRAM, PATCH & REPAIR  
Is this a change in response action from the original  
recommendation? YES

Response Action Rationale:  
THE PATCH & REPAIR IS MORE SIGNIFICANT DUE TO THE AMOUNT OF DAMAGE

\*\*\*\*\* TOTAL REMOVAL COST ESTIMATE \*\*\*\*\*  
126 Sq./Lin. Feet x \$15.00/Foot = \$1,890.00



3-YEAR ASBESTOS REINSPECTION  
HAZARD ASSESSMENT SUMMARY SHEET

Project Number: 339  
School: FOX HILL ELEMENTARY SCHOOL  
Homogeneous Area ID#: T-02  
Type of Material: THERMAL  
Analysis Result: 1%-3% ASBESTOS  
Square/Linear Footage: 85  
EPA Assessment Category: 1

\*\*\*\*\* AREA DESCRIPTIONS \*\*\*\*\*

Homogeneous Area: PIPE FITTINGS ON FIBERGLASS INSULATED PIPES  
Description

Location: IN BOILER ROOM

\*\*\*\*\* ASSESSMENT CRITERIA - CURRENT CONDITIONS \*\*\*\*\*

Existence of Barriers: NO Explain:  
Abnormal Access Features: NO Explain:

Air Erosion: LOW Maintenance Activities: LOW

Vandalism: LOW Potential for fiber release: MODERATE

Comments:

\*\*\*\*\* DAMAGE FACTORS \*\*\*\*\*

Water: MODERATE Percentage: 5% LOCALIZED  
Physical: LOW Percentage: 3% LOCALIZED  
Probable Damage Sources:

Is this a change in condition, existing damage, or potential for fiber release from the original assessment? NO  
Explain:

\*\*\*\*\* RECOMMENDED RESPONSE ACTION (OVERALL) \*\*\*\*\*

Recommended Action: OPERATIONS & MAINTENANCE PROGRAM, PATCH & REPAIR  
Is this a change in response action from the original recommendation? NO

Response Action Rationale:

\*\*\*\*\* TOTAL REMOVAL COST ESTIMATE \*\*\*\*\*

85 Sq./Lin. Feet x \$15.00/Foot = \$1,275.00

3-YEAR ASBESTOS REINSPECTION  
HAZARD ASSESSMENT SUMMARY SHEET

Project Number: W50139  
School: FOX HILL ELEMENTARY SCHOOL  
Homogeneous Area ID#: T-03  
Type of Material: THERMAL  
Analysis Result: 45%-55% ASBESTOS  
Square/Linear Footage: 40  
EPA Assessment Category: 1

\*\*\*\*\* AREA DESCRIPTIONS \*\*\*\*\*

Homogeneous Area: BOILER BREACHING INSULATION. IT IS 2" THICK GRAY AND  
Description FIBROUS MATERIAL ON 12" DIAMETER PIPE.

Location: IN BOILER ROOM

\*\*\*\*\* ASSESSMENT CRITERIA - CURRENT CONDITIONS \*\*\*\*\*

Existence of Barriers: NO Explain:  
Abnormal Access Features: YES Explain: 6' OFF THE GROUND

Air Erosion: MODERATE Maintenance Activities: LOW

Vandalism: LOW Potential for fiber release: MODERATE

Comments:

\*\*\*\*\* DAMAGE FACTORS \*\*\*\*\*

Water: LOW Percentage: 2%  
Physical: LOW Percentage: 4%  
Probable Damage Sources:

Is this a change in condition, existing damage, or potential for fiber release from the original assessment? NO  
Explain:

\*\*\*\*\* RECOMMENDED RESPONSE ACTION (OVERALL) \*\*\*\*\*

Recommended Action: OPERATIONS & MAINTENANCE PROGRAM, PATCH & REPAIR  
Is this a change in response action from the original recommendation? NO

Response Action Rationale:

\*\*\*\*\* TOTAL REMOVAL COST ESTIMATE \*\*\*\*\*

40 Sq./Lin. Feet x \$15.00/Foot = \$600.00

APPENDIX D

Response Action Selection Criteria

The LEA must select and implement in a timely manner the appropriate response actions consistent with the EPA Assessment Codes. The response actions selected shall be sufficient to protect human health and the environment.

The LEA may select the action that is the least burdensome method. In determining which is least burdensome, the LEA may consider local circumstances including occupancy and use patterns within the school building, and its economic concerns, long and short term.

Note: Nothing prohibits the removal of ACBM from a school building at any time, should removal be the preferred response action of the LEA.

The EPA has developed a seven (7) category assessment code depending upon the type of condition of ACBM.

EPA Assessment

<u>Code</u>	<u>Description</u>
1.	Damaged or significantly damaged thermal system insulation ACM.
2.	Damaged friable surfacing ACM.
3.	Significantly damaged friable surfacing ACM.
4.	Damaged or significantly damaged friable miscellaneous ACM.
5.	ACBM with potential for damage.
6.	ACBM with potential for significant damage.
7.	Any remaining friable ACBM or friable suspected ACBM.

In applying the EPA's Assessment code, it is necessary to understand the following EPA definitions.

Damaged ACBM: That material which has deterioration, delamination, water damage, lacks cohesion, is blistered, crumbling, gouged, marred heavily, abraded, or in any way has lost its structural integrity over more than 1% but less than 10% of the surface area if the damage is evenly distributed or less than 25% if the damage is localized in one area of the homogeneous area.

APPENDIX D  
RESPONSE ACTION SELECTION CRITERIA

**Significantly Damaged ACM:** That material which has deterioration, delamination, water damage, lacks cohesion, is blistered, crumbling, gouged, marred heavily, abraded, or in any way has lost its structural integrity over at least 10% of the surface area if the damage is evenly distributed or at least 25% if the damage is localized in one area of the homogeneous area.

**Good Condition ACM:** ACM with no visible damage or deterioration.

**ACBM with potential for damage:** Pertains to circumstances in which:

- Friable ACM is in an area regularly used by building occupants, including maintenance workers.
- There are indications that there is a reasonable likelihood that the material or its covering will become damaged, deteriorated or delaminated due to factors such as changes in building use, changes in O&M practices, changes in occupancy or recurrent damage.

**ACBM with potential for significant damage:** Pertains to circumstances in which:

- Friable ACM is in an area regularly used by building occupants, including maintenance workers.
- There are indications that there is a reasonable likelihood that the material or its covering will become damaged, deteriorated or delaminated due to factors such as changes in building use, changes in O&M practices, changes in occupancy or recurrent damage.
- The material is subject to major or continuing disturbance, due to factors including, but not limited to accessibility or under certain circumstances, vibration or air erosion.

In applying EPA's category code, the person making the assessment must consider the following factors:

1. Accessibility;
2. Potential for contact with the material;
3. Quantity of the asbestos containing material;
4. Composition of the ACM;
5. Size of the population exposed;
6. Likelihood of continual exposure;
7. Pedestrian traffic and adjacent room use;
8. Vibration and air movement;
9. Planned future use of the area(s).

The selection of Response Actions is guided by minimum response requirements imposed by the AHERA Regulation:

If damaged or significantly damaged thermal system insulation (TSI) ACM (EPA Code #1) is present in a building, the LEA shall:

- 1) At least repair the damaged area, or remove the damaged material if it is not feasible to repair the damage.
- 2) Maintain all TSI ACM and its covering in an intact and undamaged condition.

If damaged friable surfacing ACM or damaged friable miscellaneous ACM (EPA Code #2 and 4) is present in a building the LEA shall:

- 1) Select encapsulation, enclosure, removal or repair of the damaged material.

If significantly damaged friable surfacing ACM or significantly damaged friable miscellaneous ACM (EPA Codes #3 and 4) is present in a building, the LEA shall:

- 1) Immediately isolate and restrict access, unless isolation is not necessary to protect human health and the environment.
- 2) Remove the ACM from the functional space, unless encapsulation or enclosure is sufficient.

If any friable surfacing ACM, thermal system insulation ACM, or friable miscellaneous ACM (EPA Code #5) is present in a building, the LEA shall:

- 1) At least institute an O&M Program, as described in 763.91.

If any friable surfacing ACM, thermal system insulation ACM, or friable miscellaneous material has potential for significant damage, (EPA Code #6) is present in a building, the LEA shall:

- 1) Implement an O&M Program, as described under 763.91.
- 2) Institute preventive measures appropriate to eliminate the reasonable likelihood that the ACM or its covering will become significantly damaged, deteriorated, or delaminated.
- 3) Remove the material as soon as possible if appropriate preventative measures cannot be effectively implemented, or unless other response actions are determined to protect human health and the environment. Immediately isolate the area and restrict access if necessary to avoid an imminent and substantial endangerment to human health or environment.



TOWN OF BURLINGTON

BOARD OF HEALTH  
51 Center Street  
Burlington, Massachusetts 01803  
(817) 270-1955 • Fax 270-1009



TOWN OF BURLINGTON  
Inter-office Correspondence

NO.  
12/19/94  
DATE

FROM: Todd H. Dresser, Environmental Engineer TO: Bill Koutrouba, School Department

SUBJECT: Kilns Maintained by the School Department

To: Richard Benowitz  
Principal Fox Hill School

From: Todd H. Dresser

RE: Inspection of Ceramics Program at Fox Hill School

On January 24, 1995, I inspected the ceramics program conducted at the Fox Hill School. Currently, the school fires all ceramic pieces in a kiln located in a boiler room. No students are allowed in the area. Your ability to control and restrict access to the kiln is commendable. While inspecting the kiln, I noted that the kiln is not currently vented. Electric kilns similar to the unit operated at the school will generate ozone, carbon monoxide, volatile organics and metallic fumes and consequently must be vented directly to the atmosphere. Therefore, you are required to have this unit vented directly to the outdoors in order to continue using the unit. Failure to vent the kiln may adversely affect the air quality at the School. I also noted that the cover to the kiln is loose and that the cover has not been provided with a re-enforcing support bar to prevent the cover from dropping when open. Both of these deficiencies should be repaired to protect the operator.

During my survey, I also reviewed the paints and glazes used in the ceramics curriculum. I found that all the materials were lead free and complied with ASTM D 4236, a U.S. Food and Drug Administration regulation prohibiting the use of toxic materials in the instruction of the arts to children. The Board of Health commends your instructor, Mrs. Olansky, for her professionalism and diligence in complying with these requirements. Her efforts have resulted in a safer environment for the students.

In conclusion, I suggest that the school prepare a master inventory of all chemicals, art supplies, cleaning compounds or paints present at the school. The Massachusetts Right to Know law also requires that you maintain a copy of the material safety data sheet for each substance maintained at the school. These records should also be collected and reviewed when you prepare your master inventory list. A material safety data sheet is an informational sheet prepared and supplied by the manufacturer which describes the composition of the material, proper storage, and health hazards. A copy of this information should be submitted to the Board of Health.

A target date for completing the necessary improvements is March 17, 1995. Do not hesitate to contact me if you have any questions.

cc: Bill Koutrouba, School Dept.  
Mrs. Olansky, Fox Hill School

The Board of Health is currently reviewing health and safety concerns associated with the operation of ceramic kilns. In order to ensure the air quality of the local schools, I request that you furnish the Board of Health with a listing of the number and location of all kilns owned and operated by the School Department.

Please do not hesitate to contact me if you have any questions.

imo  
Fox Hill School - 1  
LOCATED IN BOILER ROOM





**TOWN OF BURLINGTON  
BOARD OF HEALTH**

BURLINGTON, MASSACHUSETTS 01803  
TOWN HALL 270-1565

Inspection of Oil Release Date 12/14/93 Time 10:30 AM  
 Name Fox Hill School Address \_\_\_\_\_  
 Owner Town of Burlington Tel. No. \_\_\_\_\_  
 Type of Inspection \_\_\_\_\_ Inspector Todd Drexler / Brian Lockard

(\*) Remarks and Violations are listed below: Brian and I investigated the  
report of an oil release at Fox Hill school. We found  
that someone had discarded approximately eight quart  
containers filled with oil on the access road behind the  
Fox Hill Road. Two of these containers had been ruptured  
at the time of discovery. The oil had been released on  
pavement and soil adjacent to the access road. Recreation  
department personnel have collected the contaminated soil  
(approximately 0.5 cubic yards of soil) and have deposited the  
material in the school dumpster. This material will be  
sent to NESWIZ for incineration. The remaining  
oil will be taken to the highway garage for disposal  
via the municipal hazardous waste hauler.

TOWN OF BURLINGTON  
HAZARDOUS MATERIALS REGISTRATION FORM

NAME OF FIRM: Fox Hill School FACILITY ADDRESS: Fox Hill RD  
 MAIL ADDRESS: \_\_\_\_\_ PHONE: 270-1791  
 FIRM'S CEO: \_\_\_\_\_ S.I.C.(s) \_\_\_\_\_  
 TYPE OF BUSINESS: LIST PRINCIPAL PRODUCTS OR SERVICES

- 1.0 DOES YOUR BURLINGTON FACILITY HANDLE, USE, OR STORE ANY "TOXIC OR HAZARDOUS" MATERIALS, AS DEFINED IN THE "CONTROL OF TOXIC AND HAZARDOUS MATERIALS" BY-LAW? (i.e., oils, solvents, acids/bases, cleaning agents, fuels, gas cylinders)  
 YES  NO
- 2.0 WHO ARE YOUR FACILITY'S EMERGENCY COORDINATORS?  
 NAME John R. Drexler TITLE SP. Custodian HOME PHONE 270-8258  
 NAME \_\_\_\_\_ TITLE \_\_\_\_\_ HOME PHONE \_\_\_\_\_
- 3.0 LIST "TOXIC OR HAZARDOUS" MATERIALS OR WASTES THAT YOUR FACILITY HANDLES. EXPRESS QUANTITIES IN EITHER GALLONS OR POUNDS, AND ONLY IF CONTAINER CAPACITY EQUALS OR EXCEEDS 1-QUART OR 2-POUNDS.

LIST OF HAZARDOUS MATERIALS

HAZARDOUS PRODUCT OR CHEMICAL	TYPE OF <sup>1</sup> STORAGE	MAXIMUM STORED QUANTITY	PHYSICAL HEALTH HAZARD
<u>OIL</u>	<u>UT</u>	<u>8,000</u>	
<u>OIL</u>	<u>AT</u>	<u>200</u>	

<sup>1</sup> USE CODE: UT=UNDERGROUND TANK, AT=ABOVE GROUND TANK, D=DRUM, AC=ABOVE GROUND CONTAINER, OR C=GAS CYLINDER

Report Received by: \_\_\_\_\_

LIST OF HAZARDOUS WASTES

HAZARDOUS WASTE      EPA WASTE NUMBER      MAXIMUM QUANTITY      DOT SHIPPING NAME

7.0 IN THE SPACE PROVIDED BELOW, DRAW A SITE MAP OF THE PROPERTY INDICATING THE LOCATION(S) OF STORAGE TANK(S) AND OTHER HAZARDOUS MATERIALS/WASTES STORED OUTDOORS. PLEASE IDENTIFY STORAGE TANKS USING THE SAME ALPHA-NUMERIC NOTATION USED IN ITEMS 5.0-6.0.

4.0 IF YOUR FACILITY GENERATES HAZARDOUS WASTE, SUPPLY THE FOLLOWING INFORMATION

EPA ID NO. \_\_\_\_\_ GENERATOR STATUS \_\_\_\_\_ VSQG \_\_\_\_\_ SQG \_\_\_\_\_ LQG \_\_\_\_\_  
 VSQG (<100kg/monthly)      SQG (100-1000kg/monthly)      LQG (>1000kg/monthly)

5.0 DOES YOUR FACILITY HAVE ANY UNDERGROUND STORAGE TANKS (USTs)? PLEASE NOTE THAT ALL TANKS IN SERVICE FOR 20 YEARS AND WITH A CAPACITY OF GREATER THAN 1000 GALLONS MUST BE TESTED ANNUALLY, UNLESS THE TANK(S) SYSTEM HAS SECONDARY CONTAINMENT.

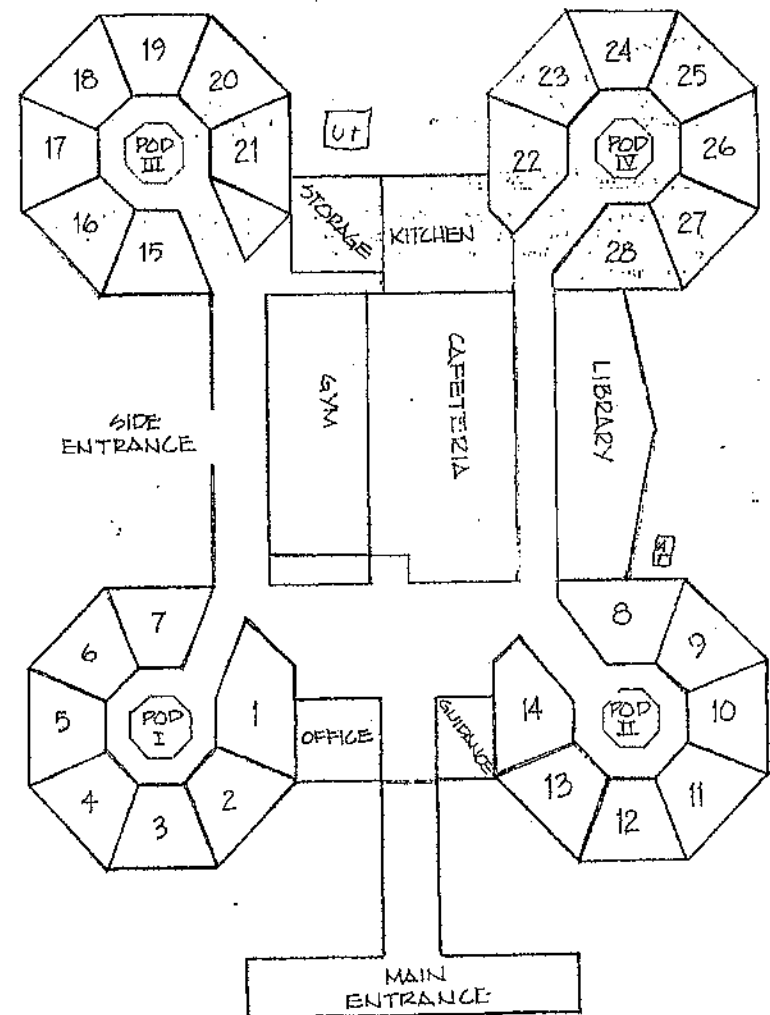
	TANK 1UT	TANK 2UT	TANK 3UT	TANK 4UT
DATE OF INSTALLATION	<u>12-3-67</u>	_____	_____	_____
MOST RECENT TANK TEST	_____	_____	_____	_____
CAPACITY IN GALLONS	<u>8,000</u>	_____	_____	_____
TYPE (i.e., steel or fiberglass)	<u>Steel</u>	_____	_____	_____
STORED MATERIAL	_____	_____	_____	_____

6.0 DOES YOUR FACILITY HAVE ANY ABOVE GROUND STORAGE TANKS?

	TANK 1AT	TANK 2AT	TANK 3AT	TANK 4AT
DATE OF INSTALLATION	<u>10-17-87</u>	_____	_____	_____
CAPACITY IN GALLONS	<u>200</u>	_____	_____	_____
TYPE (i.e., steel or fiberglass)	<u>Steel</u>	_____	_____	_____
STORED MATERIAL	_____	_____	_____	_____

8.0 IN THE SPACE PROVIDED BELOW, DRAW A FLOOR PLAN OF THE INTERIOR OF YOUR FACILITY INDICATING LOCATIONS WHERE HAZARDOUS MATERIALS ARE HANDLED, USED, OR STORED. ALSO, LOCATE SAFETY AND SPILL CONTROL EQUIPMENT/ MATERIALS, AS WELL AS, COUNTERMEASURE PLAN POSTING(s). IN CASE OF A HAZARDOUS MATERIAL INCIDENT, PLEASE NOTE ANY SPECIAL HAZARDS WHICH THREATEN EMERGENCY RESPONSE PERSONNEL WITHIN THESE AREAS.

LAYOUT OF THE SCHOOL



9.0 NAME OF INDIVIDUAL COMPLETING FORM: John R. Davila  
 TITLE: SA Contractor  
 TELEPHONE NO: 272-1791  
 DATE: 9/20/93



TOWN OF BURLINGTON  
BOARD OF HEALTH  
BURLINGTON, MASSACHUSETTS 01803  
TOWNHALL 272-8700

TOXIC OR HAZARDOUS SUBSTANCES  
INVENTORY LIST

Fox Hill School

Inspection of OIL SPILL IN PARKING LOT Date JAN 8, 1980 Time PM  
Name \_\_\_\_\_ Address FOX HILL ELEMENTARY SCHOOL  
Owner TOWN OF BURLINGTON Tel. No. \_\_\_\_\_  
Type of Inspection SPILL Inspector IRL GARDNER

(\*) Remarks and Violations are listed below:

INVESTIGATED RELEASE OF WASTE OIL AT FOX-HILL ELEMENTARY SCHOOL  
APPARENTLY SOMEONE DISPOSED OF (2) 1-GAL PLASTIC CONTAINERS W/ WASTE  
OIL INTO A TRASH BARREL @ IN THE SCHOOL PARKING LOT. ONE OF THESE  
CONTAINERS OPENED & RELEASED ITS CONTENTS. APPROXIMATELY 3QT of  
LIQUID DRAINED INTO PARKING LOT.

HIGHWAY DEPT. PLACED SCHOOL ADSORBENT PADS TO ADSORB THE WASTE  
OIL. THE OTHER WASTE OIL CONTAINER WAS REMOVED TO THE HIGHWAY  
GARAGE FOR DISPOSAL.

HIGHWAY WILL RETURN TO PICKUP CONTAMINATED MATERIAL

Report Received by:

*R. Gardner*

Product or Chemical Name	Work Area Location	Container Size or Quantity	Manufacturer's Name and Address
Duplicating Fluid	O Office	1 gallon	Viking Mfg. Co. Natick, MA 01760
Protective Clear Spray	C Art Classes	* Spray Can 13 oz.	Products Corp. Norristown, PA 19404
Perma Clear Acrylic	C Art Classes	* Spray Can 11 oz.	Borden, INC. Dept. GP Columbus, Ohio 43215

\* only one can of ea. in Bldg.



TOWN OF BURLINGTON

HAZARDOUS MATERIALS REGISTRATION FORM

NAME OF FIRM: School Dept. (Fox Hill School)

ADDRESS: \_\_\_\_\_

TELEPHONE: 273-1870

FIRM'S MANAGER: Thomas J. Plakouty Jr.

TYPE OF BUSINESS: LIST PRINCIPAL PRODUCTS OR SERVICES S.I.C. \_\_\_\_\_

1.0 DOES YOUR BURLINGTON FIRM HANDLE, USE, OR STORE ANY "TOXIC OR HAZARDOUS" MATERIALS, AS DEFINED IN THE "CONTROL OF TOXIC AND HAZARDOUS MATERIALS" BYLAW? YES  NO

IF THE ANSWER IS NO, GO TO ITEM 11.0.

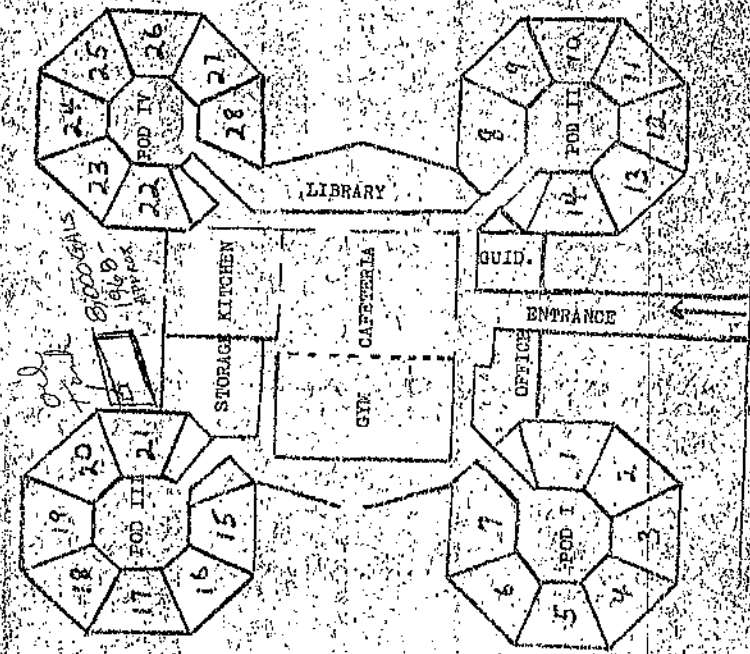
IF THE ANSWER IS YES, GO TO ITEM 2.0.

2.0 LIST "TOXIC AND HAZARDOUS" MATERIALS OR WASTES THAT YOUR BURLINGTON FIRM HANDLES. EXPRESS QUANTITIES IN EITHER GALLONS OR POUNDS, AND ONLY THOSE HANDLED IN EXCESS OF FIVE (5) GALLONS OR TWO (2) POUNDS DRY WEIGHT.

MATERIAL NAME OR EPA WASTE CODE	TYPE OF STORAGE <sup>1</sup>	MAXIMUM QUANTITY	CONSUMPTION OR GENERATION RATE <sup>2</sup>	HAZARDOUS PROPERTIES (OR DOT HAZARD CLASS)
---------------------------------	------------------------------	------------------	---	--

<sup>1</sup> USE CODE: UT=UNDERGROUND TANK, AT=ABOVEGROUND TANK, D=DRUMS, OR AC=ABOVEGROUND CONTAINERS

<sup>2</sup> MONTHLY BASIS



TOWN OF BURLINGTON

HAZARDOUS MATERIALS REGISTRATION FORM

NAME OF FIRM: School Dept. (Fox Hill School)  
 ADDRESS: \_\_\_\_\_  
 TELEPHONE: 273-1870  
 FIRM'S MANAGER: Thomas J. Phelan, Jr.  
 TYPE OF BUSINESS: LIST PRINCIPAL PRODUCTS OR SERVICES S.I.C. \_\_\_\_\_

1.0 DOES YOUR BURLINGTON FIRM HANDLE, USE, OR STORE ANY "TOXIC OR HAZARDOUS" MATERIALS, AS DEFINED IN THE "CONTROL OF TOXIC AND HAZARDOUS MATERIALS" BYLAW? YES  NO

IF THE ANSWER IS NO, GO TO ITEM 11.0.

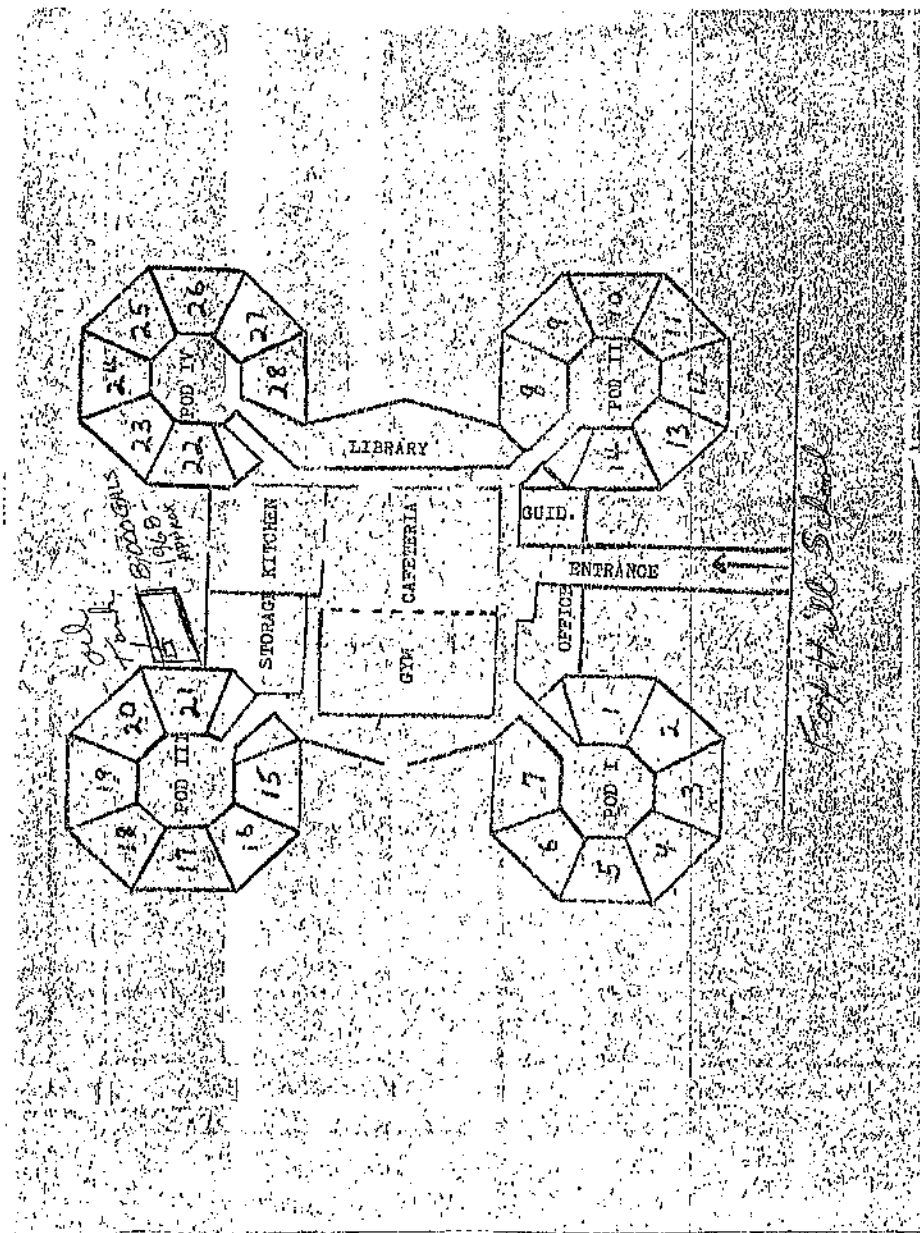
IF THE ANSWER IS YES, GO TO ITEM 2.0.

2.0 LIST "TOXIC AND HAZARDOUS" MATERIALS OR WASTES THAT YOUR BURLINGTON FIRM HANDLES. EXPRESS QUANTITIES IN EITHER GALLONS OR POUNDS, AND ONLY THOSE HANDLED IN EXCESS OF FIVE (5) GALLONS OR TWO (2) POUNDS DRY WEIGHT.

MATERIAL NAME OR EPA WASTE CODE	TYPE OF STORAGE <sup>1</sup>	MAXIMUM QUANTITY	CONSUMPTION OR GENERATION RATE <sup>2</sup>	HAZARDOUS PROPERTIES (OR DOT HAZARD CLASS)
---------------------------------	------------------------------	------------------	---	--

<sup>1</sup>USE CODE: UT=UNDERGROUND TANK, AT=ABOVEGROUND TANK, D=DRUMS, OR AC=ABOVEGROUND CONTAINERS

<sup>2</sup>MONTHLY BASIS





TOWN OF BURLINGTON  
Town Clerk's Office

Amy E. Warfield, Town Clerk, CMC  
Linda A. McNeill, Assistant Town Clerk  
Kirsten Midgley, Administrative Assistant

Daniel C. McCormack, CA  
Records Manager/Archivist  
Kaitlyn O'Shea, Administrative Assistant

**PUBLIC RECORDS REQUEST**

Date: April 7, 2023

**Information of Requestor**

Name:	Cheryl A. Cambria
Address:	1 Wallace Way
City, State, Zip:	West Bridgewater, MA 02379
Phone:	508-942-0366

**Public Information Requested** (Please specify in exact detail)

Permits for installation or removal of underground or aboveground storage tanks and/ or spills or releases of oil or other hazardous substances at Fox Hill Elementary School at 252 Fox Hill Road from Clerk's Office and Fire Department

           **NON-OFFICIAL** (Fee to be determined by record clerk)  
           **OFFICIAL** (Committee or Board)

**FOR OFFICE USE ONLY**

Date Information Released:	
Information Picked Up By:	
Fee Charged:	

Signature of Record Clerk: \_\_\_\_\_



**Fox Hill Elementary School**

252 Fox Hill Road  
Burlington, MA 01803

Inquiry Number: 7295798.5

April 03, 2023

# The EDR-City Directory Image Report



## TABLE OF CONTENTS

### SECTION

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*Thank you for your business.*

Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EXECUTIVE SUMMARY

### DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available business directory data at approximately five year intervals.

### RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

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### RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2020	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2017	<input type="checkbox"/>	<input type="checkbox"/>	Cole Information
2014	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Information
2010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Information
2005	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Information
2000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Information
1995	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Information
1992	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Information
1989	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Criss-Cross Directory
1984	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Criss-Cross Directory
1975	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Criss-Cross Directory
1970	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Criss-Cross Directory
1968	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Criss-Cross Directory

## FINDINGS

### TARGET PROPERTY STREET

252 Fox Hill Road  
Burlington, MA 01803

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
-------------	-----------------	---------------

### FOX HILL RD

2020	pg A2	EDR Digital Archive	
2017	-	Cole Information	Street not listed in Source
2014	pg A9	Cole Information	
2010	pg A12	Cole Information	
2005	pg A15	Cole Information	
2000	pg A18	Cole Information	
1995	pg A20	Cole Information	
1992	pg A22	Cole Information	
1989	pg A24	Cole Criss-Cross Directory	
1984	pg A26	Cole Criss-Cross Directory	
1975	pg A28	Cole Criss-Cross Directory	
1975	pg A29	Cole Criss-Cross Directory	
1970	pg A31	Cole Criss-Cross Directory	
1968	pg A34	Cole Criss-Cross Directory	

## FINDINGS

### CROSS STREETS

Year            CD Image            Source

### WESTWOOD ST

2020	pg. A6	EDR Digital Archive	
2017	-	Cole Information	Street not listed in Source
2014	pg. A11	Cole Information	
2010	pg. A14	Cole Information	
2005	pg. A17	Cole Information	
2000	pg. A19	Cole Information	
1995	pg. A21	Cole Information	
1992	pg. A23	Cole Information	
1989	pg. A25	Cole Criss-Cross Directory	
1984	pg. A27	Cole Criss-Cross Directory	
1975	pg. A30	Cole Criss-Cross Directory	
1970	pg. A32	Cole Criss-Cross Directory	
1970	pg. A33	Cole Criss-Cross Directory	
1968	pg. A35	Cole Criss-Cross Directory	



## **City Directory Images**

**FOX HILL RD****2020**

174	Patrick Clancy
176	Anila Desai
	Max Julien
	Safiyyah Ilyas
177	Christopher Anderson
	Joan Wheeler
	Lynda Anderson
	Matthew Anderson
178	Paras Mukadam
	Shree Harlalka
179	Joan Villandry
180	Erica Catanese
	Erin Spyropoulos
	Gregory Spyropoulos
181	Freddy Delatorre
	HEALTHMARKETS INSURANCE-FRED
	HEALTHMARKETS INSURANCE-FREDDY
	Janet Delatorre
	Joseph Delatorre
182	Ernest Rajakumar
184	Nhu-Ny Nguyen
185	Dhiru Patel
	Gitaben Patel
	Miteshkumar Patel
	Vijeta Patel
	Vivek Patel
186	Denise Clark
	Raymond Starkey
187	Amy Weiss
	Athur Weiss
	Benjamin Weiss
	Shari Weiss
189	Eric Lewis
	Marjorie Lewis
190	Gail Tuccero
	William Tuccero
191	John Soares
	Theresa Soares
192	Danielle Schissler
	Lauren Schissler
	Maryellen Schissler
193	Alyson Magrane
	Byron Magrane
	Nancy Rubin
194	Caron Lau
	Caron Shing
	Kim Lau
195	James Walton
	Kelley Walton
	Nancy Walton

**FOX HILL RD****2020****(Cont'd)**

196	Shawn Cote Tiffany Cote Tiffany Lung
200	Maura McCarthy Philip Lajoie
202	Emanuel Tucker Rose Tucker
204	Andrew Ulliani Melissa Ulliani
206	Anna McGowan Donald McGowan
207	Giuseppe Mollica Ronald Mollica Sofia Mollica Stacey Mollica Talia Mollica
208	Kusum Narayan Lianne Abramo Michelle Abramo Philip Abramo Stephen Abramo
209	Erica Hudson Maria Hudson Raymond Hudson Stephanie Hudson
210	Kimberly Mancini Todd Mancini
211	Kelly Edwards Michael Edwards
212	Cameron Hurley Dennis Keane Diane Hurley Lauren Hurley Lauren Keane Robert Hurley
213	Barbara Mitchell Jane Boivin Maryjane Boivin William Boivin
214	Brett Boschetti Katrina Boschetti Katrina Calvert
216	Karen Butler Richard Butler
218	Debra Flynn Eleanor Flynn Michelle Flynn Paul Flynn Wilson Paul
220	Michael Buonopane

## FOX HILL RD

2020

(Cont'd)

220	Pauline Buonopane
222	Daniella Morganelli
	Kathleen Casey
	Michael Morganelli
	Stephen Morganelli
224	Anthony Freda
	Leanne Freda
	LITTLE STEPS INC
	Mildred Freda
226	Jeffrey Siersma
228	Andrea Sheehan
	Erica Sheehan
	Joseph Sheehan
	Kevin Sheehan
	Thom Russo
229	Nicole Spano
	Patrick Niedermeier
230	Chandni Tailor
	Vipin Tailor
231	James Healy
	Monica Healy
232	Brian Savage
	Erin Savage
	Mark Savage
	Paulette Savage
233	Martha Sheridan
	Mary Sheridan
	Thomas Sheridan
234	Joanm Lamb
	Ronald Lamb
	Winter Wheat
235	Kristin Cardarelli
	Kristin Panagiotis
	William Panagiotis
236	Cheryl Oley
	Edwin Oley
	Lillian Oley
	Ryan Harrington
237	Lore Porter
238	Dorothy MacDonald
239	Nikolaos Dalalelis
240	Lynna Soohoo
	Thomas Soohoo
241	Judith Sullivan
	Theresa Sullivan
243	Bobby Negrón
	Kimberly Negrón
	Richard Vita
245	Anthony Patti
	Margaret Patti



**FOX HILL RD**

**2020**

**(Cont'd)**

246	Berj Zamanian Jennifer Zamanian Marjorie Zamanian
247	Dennis Delorey Nancy Delorey
248	Carl Humphreys Michael Humphreys Valerie Humphreys
249	Daniel Muise Leta Benjamin Marcella Garcia
250	Anthony Viapiano Kimberly Shubrooks
251	Bruce Foster Laurian Foster

**WESTWOOD ST 2020**

1	Joseph Sullivan Kathryn Sullivan
2	Emily Cayon Patricia Cayon Scott Cayon
4	Chuck Carnell Deborah Carnell Jacqueline White Kayla Carnell Kelsey Carnell
5	Michael Shutan
7	Andrea Lamb Gregory Lamb Mary Higgins Nicole Lamb
9	Lyons Rosemary Michael Lyons Michael Spooner Shiang Jan
11	Kathleen Horton
12	Daniel McDonnell Eileen Comeau Eileen Curtin Jade Escobar Meghan McDonnell Shaun McDonnell
13	Cristina Mateo Jorge Garcia
14	Kevin Negrats William Crowley
15	Aarohi Joshi Amisha Soni Avnish Soni Kirti Joshi Maulesh Soni
16	Julie Kroner Todd Kroner
17	Jose Biju Lijimol Biju Lijimol Scaria
18	Cathryn Szekely Claudio Corsi
19	Bhanoben Patel Khushalbai Patel Kokila Patel Niket Patel Praful Patel Rajesh Patel
21	David Lin Hoan Chung

**WESTWOOD ST 2020 (Cont'd)**

21	Jeanne Lin
	Jessica Lin
22	Paul Baldi
23	Christopher Kraft
	Georgia Kraft
24	Helen Munro
	Janie Munro
	Jillian Munro
	John Cherubino
	Kenneth Munro
25	Futaba Shioda
	Keiko Shioda
	Marimo Shioda
	Toshihiro Shioda
26	Cecilia Chiang
	Pauline Chiang
	Pijian Chiang
	Simon Chiang
	XI Chiang
27	Jon Washisko
	Theresa Washisko
28	Manu Bhalla
	Meena Bhalla
	Tanishq Bhalla
	Vijay Bhalla
29	John Seremetis
	Paula Seremetis
32	Gary Yu
	Ken Yu
	Kin Yu
33	Danielle Barrett
	Michael Fatal
	Nicholas Barrett
34	Alan Lee
35	Alberto Grandi
	Cameron Bugley
	Gloria Bugley
	Maria Grandi
	Olivia Grandi
	Tyler Bugley
37	Tien Doan
39	Kimberly Tolpa
	Steven Tolpa
40	A-Z DESIGN & BUILD INC
	Kevin Thibodeau
	Marion Grant
	Melanie Thibodeau
41	Lois Turnbull
	Thomas Turnbull
43	Edward Mullen

**WESTWOOD ST 2020 (Cont'd)**

43	Manickathan Martin T Manickathan-Martin
44	Hilbert Fitch Jeane Fitch
45	Ellen Mendes John Mendes Michael Mendes
46	Brenda McCarthy Matthew McCarthy Michael McCarthy
48	Deanna Duffy Michael Williams Pamela Duffy Pamela Williams Sean Duffy
49	Donna Ross Harvey Ross
50	John Defrancesco Martha Defrancesco
51	Christine Boermeester Kenneth Boermeester
52	Serhiy Kovbasa
53	Felicity Ho Troi Dip
54	Michelle Araujo Michelle Ferreira
55	Allan McCombs Iveta Dolansky
56	Brian Wilshusen Eric Wilshusen Kelly Wilshusen Mark Wilshusen Stewart Nash
58	Corrie Curtice Eric Curtice
60	Alicia Doble Dennis Doble Gregory Doble Lenora Doble
62	Chander Patil Gaurav Patil Poonam Patil Reshma Patil
64	Cassandra Papas John Papas Matthew Papas



## FOX HILL RD

2014

91	SCOTT, CAROL
174	GULIANI, ABHINAV
176	SNYDER, JAY
177	WHEELER, HAROLD E
178	NAGRAJ, DINESH S
179	VILLANDRY, JOAN F
180	SPYROPOULOS, GREGORY J
181	TORRE, FREDDY D
182	MELLO, DJ
184	DINITTO, COSMOS
185	PATEL, DHIRU K
186	CLARK, DENISE
187	WEISS, ARTHUR R
189	LEWIS, ERIC M
190	ROMAGNA, PETER R
191	SCOTT, DAVID R
192	SCHISLER, STEPHEN M
193	MAGRANE, BYRON M
194	LAU, KIM E
195	WALTON, JAMES J
196	COTE, SHAWN
200	LAJOIE, PHILIP C
202	TUCKER, EMANUEL J
204	COLLINS, JOHN P
206	MCGOWAN, DONALD A
207	MOLLIKA, RONALD A
208	ABRAMO, PHILIP J
209	HUDSON, RAYMOND A
210	MANCINI, TODD M
211	EDWARDS, MICHAEL M
212	RILEY, THOMAS L
213	BOIVIN, WILLIAM F
214	COCHRAN, MARY L
216	OCCUPANT UNKNOWN,
218	FLYNN, PAUL J
220	BUONOPANE, MICHAEL
222	CASEY, KATHLEEN M
224	FREDA, ANTHONY E
226	AARONSON, BENJAMIN S
228	SHEEHAN, KEVIN M
229	NIEDERMEIER, PATRICK J
230	SPINAZOLA, JOSEPH E
231	HEALY, JAMES A
232	SAVAGE, MARK D
233	SHERIDAN, MARY C
234	LAMB, JOANM M
235	PANAGIOTIS, WILLIAM W
236	OLEY, EDWIN J
237	PORTER, JOHN F
238	MACDONALD, ROBERT A

**FOX HILL RD**

**2014**

**(Cont'd)**

239	PERDICHIZZI, RICHARD F
240	SOOHOO, LYNNA Y
243	VITA, KRISTIN M
245	PATTI, ANTHONY R
246	ZAMANIAN, BERJ
247	BURKE, RICHARD M
248	HUMPHREYS, CARL S
249	ROTH, PAUL F
250	OCCUPANT UNKNOWN,
251	FOSTER, BRUCE D

## WESTWOOD ST 2014

1	SULLIVAN, JOSEPH J
2	CAYON, SCOTT M
3	OCCUPANT UNKNOWN,
4	CARNELL, CHARLES E
5	ANTON, MICHAEL J
7	LAMB, GREGORY L
9	TAUR, JAN S
11	GORMAN, JOHN F
12	CURTIN, KEVIN
14	KOTHAPALLI, ARUNA
15	SONI, MAULESH
16	KRONER, TODD P
17	OCCUPANT UNKNOWN,
18	CORSI, CLAUDIO
19	PATEL, RAJESH K
21	LIN, HING D
22	BALDI, PAUL R
23	KRAFT, CHRISTOPHER K
24	MUNRO, KENNETH J
25	SHIODA, TOSHI
26	CHIANG, PIJIAN
27	WASHIKO, JON C
28	BHALLA, VIJAY M
29	SEREMETIS, JOHN J
32	YU, KEN C
33	FATAL, FRANCIS J
34	LEE, ALAN T
35	GRANDI, GLORIA L
37	NICHOLS, MICHAEL B
39	TOLPA, STEVEN J
40	GRANT, MARION L
41	TURNBULL, THOMAS E
43	MULLEN, EDWARD B
44	FITCH, HILBERT E
45	MENDES, ELLEN R
46	MCCARTHY, MICHAEL J
47	BRANDT, MARGARET
48	WILLIAMS, PAM M
49	ROSS, HARVEY B
50	DEFRANCESCO, JOHN A
51	BOERMEESTER, KENNETH J
52	KOVBASA, SERHIY
53	LY, MICHAEL
54	OCCUPANT UNKNOWN,
55	MCCOMBS, ALLAN W
56	WILSHUSEN, ERIC J
58	CURTICE, JOAN A
62	PATIL, GAURAV C
64	PAPAS, CASSANDRA M

## FOX HILL RD

2010

176	IYER, GANESH K
177	ANDERSON, MATTHEW
178	NAGRAJ, DIN
179	VILLANDRY, JOAN F
180	SPYROPOULOS, GREGORY J
181	TORRE, FREDDY D
182	MELLO, DANIEL J
184	DI, NITTO
185	PATEL, DHIRU K
186	CLARK, DENISE J
187	WEISS, ARTHUR R
189	LEWIS, ERIC M
190	ROMAGNA, PETER R
192	SCHISLER, STEPHEN M
193	MAGRANE, BYRON M
194	LAU, KIM E
196	KELLY, STEVE M
200	LAJOIE, PHILIP C
202	TUCKER, EMANUEL J
204	COLLINS, JOHN P
206	MCGOWAN, DONALD A
207	MOLLIKA, RONALD A
208	ABRAMO, PHILIP J
209	HUDSON, RAYMOND A
210	PHILLIPS, LILLIAN B
211	EDWARDS, MICHAEL M
212	MCSHEFFREY, JILL
213	BOIVIN, WILLIAM F
214	COCHRAN, MARY L
216	BUTLER, RICHARD
220	BUONOPANE, MICHAEL
224	TRABUCCO, ROSE
226	AARONSON, BENJAMIN S
228	RUSSO, CHARLES
229	NIEDERMEIER, PATRICK J
231	HEALY, JAMES A
232	SAVAGE, MARK D
233	SHERIDAN, THOMAS F
234	LAMB, JOANM M
235	BURGOMASTER, JOAN E
236	OLEY, EDWIN J
237	PORTER, LORE A
238	MACDONALD, ROBERT J
239	PERDICHIZZI, RICHARD F
241	SULLIVAN, THERESA A
243	VITA, KRISTIN M
245	PATTI, ANTHONY R
246	ZAMANIAN, BERJ
247	BURKE, RICHARD M
248	HUMPHREYS, CARL S



Target Street

Cross Street

Source

✓

-

Cole Information

**FOX HILL RD**

**2010**

**(Cont'd)**

249	ROTH, PAUL F
250	VIAPIANO, ANTHONY J
251	FOSTER, BRUCE D

## WESTWOOD ST 2010

1	SHIELDS, ELWOOD N
2	MCLAUGHLIN, RICHARD B
3	COTE, JOSEPH G
4	CARNELL, CHARLES E
5	ANTON, PAULA A
7	LAMB, GREGORY L
9	TAUR, JAN S
11	GORMAN, JOHN F
12	CURTIN, EILEEN
13	ANDERSON, ARTHUR L
14	NEGROTTI, KEVIN H
15	GAILIUS, STANLEY
16	KRONER, TODD P
17	MELESCHUK, EDWARD L
18	CORSI, CLAUDIO
19	PATEL, RAMBHAI
21	LIN, HING D
22	BALDI, PAUL R
23	KRAFT, CHRISTOPHER K
24	MUNRO, KENNETH J
25	SHIODA, TOSHIHIRO
26	CHIANG, PIJIAN
27	WASHIKO, JON C
28	BHALLA, J K
29	SEREMETIS, JOHN J
32	YU, KEN C
33	FATAL, FRANCIS J
34	LIND, MAYNARD M
35	GRANDI, ALBERTO D
37	NICHOLS, RICHARD D
39	JAKED, R A
40	GRANT, MARION
41	TURNBULL, THOMAS E
43	MULLEN, EDWARD B
44	FITCH, HILBERT E
45	GILMAN, LOUIS
46	MCCARTHY, MICHAEL J
47	GOLDSTEIN, NUKE
48	DUFFY, THOMAS W
49	ROSS, HARVEY B
50	DEFRANCESCO, JOHN A
51	BOERMEESTER, KENNETH J
52	KOVBASA, SERHIY
53	LY, MICHAEL
56	WILSHUSEN, ERIC J
58	CURTICE, JOAN A
60	DOBLE, DENNIS S
62	PATIL, CHANDER P
64	PAPAS, CASSANDRA

## FOX HILL RD

2005

176	FULCHER, ALAN R
177	ANDERSON, LYNDA S
178	NAGRAJ, DINESH S
179	CALAUTTI, JOAN F
180	CATANESE, GARY L
181	TORRE, FREDDY D
182	MCCANN, WILLIAM F
184	DINITTO, COSMO
186	CLARK, DENISE J
187	WEISS, ARTHUR R
189	LEWIS, ERIC M
190	ROMAGNA, PETER R
191	SCOTT, DAVID R
192	SCHISLER, STEPHEN M
193	RUBIN, LAWRENCE I
194	LAU, KIM E
195	WALTON, JAMES J
196	COHEN, BOB N
200	GULLA, DAVID R
202	TUCKER, EMANUEL J
204	COLLINS, JOHN P
206	MCGOWAN, DONALD A
207	MOLLIKA, ROBERT J
208	GILL, DAVINDER S
209	HUDSON, RAYMOND A
210	PHILLIPS, LILLIAN B
211	ESPIN, OLIVA
212	SPANGLER, JAY E
213	BOIVIN, WILLIAM S
214	COCHRAN, MARY L
216	BUTLER, RICHARD
218	FLYNN, PAUL J
220	BUONOPANE, MICHAEL
224	FREDA, ANTHONY E
226	JONES, ROBERT E
228	SHEEHAN, KEVIN M
229	MARY, ROSE S
230	SPINAZOLA, JOSEPH E
231	HEALY, JAMES A
232	MARK D SAVAGE CPA SAVAGE, MARK D
233	SHERIDAN, THOMAS F
234	LAMB, JOANM M
235	BURGOMASTER, JOAN E
236	OLEY, EDWIN J
237	PORTER, LORE A
238	MACDONALD, ROBERT M
239	PERDICHIZZI, RICHARD F
241	SULLIVAN, ROBERT L
243	MCCARRON, DENNIS E

Target Street

Cross Street

Source

✓

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Cole Information

**FOX HILL RD**

**2005**

**(Cont'd)**

245	PATTI, ANTHONY R
246	ZAMANIAN, BERJ
247	DELOREY, DENNIS E KELLY A DELOREY D C INC
248	KERR, MICHAEL J
249	BENJAMIN, PAUL E
250	VIAPIANO, ANTHONY J
251	PHELAN, RICHARD J



**WESTWOOD ST 2005**

1	SHIELDS, ELWOOD N
2	MCLAUGHLIN, RICHARD B
3	COTE, JOSEPH G
4	CARNELL, CHARLES E
5	SHUTAN, MICHAEL J
7	LAMB, GREGORY L
9	WANG, CHIN
11	GORMAN, JOHN F
13	ROCCA, CHRISTOPHER A
14	KOTHAPALLI, PRASAD S
16	ALLEGRETTO, ROBERT J CONTINENTAL ARMORER
18	POITRAS, JAMES P
19	PATEL, RAJESH K
21	GAUTHIER, PAUL A
22	BALDI, PAUL R
23	KRAFT, CHRISTOPHER K
24	MUNRO, KENNETH J
25	SHIODA, TOSHIHIRO
26	CHIANG, PIJIAN
27	WASHISKO, JON C
28	LI, SICHU
29	WAGER, STACEY L
32	YU, GARY K
33	FATAL, FRANCIS J
34	LIND, MAYNARD M
35	GRANDI, ALBERTO D
37	NICHOLS, RICHARD D
39	SCAVEZZE, DANIEL C
40	DAY, CLARA E
41	TURNBULL, THOMAS E
43	MULLEN, EDWARD B
44	FITCH, HILBERT E
46	MCCARTHY, MICHAEL J
47	CARBON PROJECT INC GOLDSTEIN, HANOCH
48	DEVITO, PAMELA M
49	ROSS, HARVEY B
50	DEFRANCESCO, JOHN A
51	DIRUSSO, RAYMOND A
52	DIANA, RALPH L
53	LY, MICHAEL
56	WILSHUSEN, ERIC J
58	CURTICE, JOAN A
60	DOBLE, GREGORY J
62	PATIL, CHANDER B
64	PAPAS, JOHN M

## FOX HILL RD

2000

174 ROBERTS, PETER  
 176 FULCHER, ALAN  
 177 ANDERSON, LYNDA S  
 178 LI, RENNY  
 180 CATANESE, GARY J  
 182 MCCANN, WILLIAM  
 186 CLARK, DENISE  
 187 WEISS, ARTHUR  
 190 ROMAGNA, PETER P  
 191 SCOTT, DAVID  
 192 SCHISSLER, STEPHEN M  
 193 RUBIN, JOSHUA  
 194 LAU, KIM E  
 195 WALTON, JAMES J  
 196 COHEN, JEFF  
 202 TUCKER, EMANUEL J  
 204 COLLINS, JOHN P  
 206 MCGOWAN, DONALD A  
 207 MOORE, ARTHUR R  
 208 NARAYAN, KUSUM  
 209 HUDSON, RAYMOND A  
 210 PHILLIPS, LILLIAN B  
 213 BOIVIN, WILLIAM  
 214 COCHRAN, PAUL M  
 216 BUTLER, RICHARD  
 218 FLYNN, PAUL J  
 220 SWAIN, ROBERT E  
 222 MORGANELLI, STEVEN  
 224 TRABUCCO, PAUL G  
 228 SHEEHAN, KEVIN  
 229 SOLOSKI, MARY R  
 230 CASEY, K M  
 SPINAZOLA, JOSEPH E  
 231 RUD, E  
 232 SAVAGE, MARK  
 233 SHERIDAN, THOMAS F  
 234 LAMB, RONALD  
 236 OLEY, EDWIN J  
 237 PORTER, JOHN F  
 238 MACDONALD, ROBERT J  
 239 PERDICHIZZI, RICHARD  
 243 MCCARRON, DENNIS  
 245 PATTI, ANTHONY  
 246 ZAMANIAN, BERJ  
 247 DELOREY, DENNIS  
 248 KERR, MICHAEL  
 249 BENJAMIN, PAUL E  
 ROTH PAUL ATTORNEY  
 ROTH, PAUL F

## WESTWOOD ST 2000

2	JONES, WALTER E MAUCHAN, P MCLAUGHLIN, RICHARD
3	SARKODIEMENSAH, E
4	CARNELL, CHARLES E
5	SHUTAN, MICHAEL J
7	LAMB, GREGORY
9	ROCKWELL, K M
11	GORMAN, JOHN F
12	CHAPMAN, DOUGLAS C
13	ROCCA, CHRIS
14	KOTHAPALLI, PRASAD
15	GAILIUS, S V GAILUS, STANLEY
16	ALLEGRETTO, ROBERT S
17	MELESCHUK, EDWARD
21	OPPEDISANO, PAUL J
23	KRAFT, GEORGIA
24	MUNRO, KENNETH J
25	SHIODA, T
27	WASHISKO, JON
28	WALDEN, DEBORAH
29	OHALLERAN, PATRICK
32	YU, K
33	FATAL, ANNE E
34	LIND, MAYNARD M
35	GRANDI, GLORIA
37	NICHOLS, RICHARD D
39	YIN, MARK
40	DAY, EUGENE L
41	TURNBULL, THOMAS E
43	MULLEN, EDWARD
44	FITCH, HILBERT E
45	GILMAN, CHARLES S
46	MCCARTHY, MICHAEL J
47	CHIUVE, ROBERT J
48	DEVITO, P M
49	ROSS, HARVEY B
51	DIRUSSO, RAYMOND
52	DIANA, LORENZO
53	CADOTTE, ARIC
55	LEVINE, DAVID
56	NASH, STEWART
58	CURTICE, JOAN
60	DOBLE, DENNIS M
64	PAPAS, JOHN

## FOX HILL RD

1995

174 ROBERTS, PETER DR & BETHAN  
 177 ANDERSON, CHRISTOPHER & LYNDA  
 178 LIMBACHIYA, PRAVEEN  
 LIMBACHIYA, PRAVEEN & NISHTHA  
 179 CALAUTTI, J  
 185 GOLDIE, JAS  
 186 CLARK, D  
 187 WEISS, ARTHUR  
 189 LAWSON, JAS  
 190 ROMAGNA, PETER R  
 191 SCOTT, DAVID & CAROL  
 SIMPSON, RICHARD & SUSAN  
 193 RUBIN, LAWRENCE I  
 RUBIN, MICHELLE & JOSHUA  
 194 LAU, K  
 195 WALTON, JAS J & NANCY  
 202 TUCKER, EMANUEL J  
 204 COLLINS, JOHN P  
 206 MC GOWAN, DONALD A  
 MCGOWAN, STEPHEN  
 208 DELUCA, MICHAEL & EMILY  
 209 HUDSON, RAYMOND A & MARIA  
 212 SPANGLER, STANLEY L  
 213 BOIVIN, BILL & JANE  
 214 COCHRAN, PAUL M  
 216 BUTLER, RICHARD  
 218 FLYNN, PAUL J & DEBRA L  
 220 SWAIN, ROBT E  
 222 MORGANELLI, STEVEN & DEBRA  
 224 TRABUCCO, L  
 TRABUCCO, PAUL G  
 226 CARROLL, ROBT A  
 229 SOLOSKI, M R  
 230 CASEY, KATHLEEN M  
 SPINAZOLA, JOS E  
 232 SAVAGE, MARK & PAULETTE  
 233 SHERIDAN, THOS F  
 234 LAMB, RONALD  
 236 OLEY, EDWIN J  
 237 O'CONNELL, MICHAEL & LAUREL  
 238 MACDONALD, ROBT J  
 239 PERDICHIZZI, R F  
 246 ZAMANIAN, BERJ  
 247 DELOREY, DENNIS  
 248 KING, NEIL  
 249 BENJAMIN, PAUL E  
 ROTH, PAUL F  
 ROTH, PAUL, ATTY



## WESTWOOD ST 1995

1	SHIELDS, AL N
2	MAUCHAN, JOS F MCLAUGHLIN, RICHARD
3	ULTSCH, IRENE ULTSCH, TAMMY
4	CARNELL, CHAS E
5	SHUTAN, MICHAEL JAY
7	LAMB, GREGORY & ANDREA
11	GORMAN, JOHN F
12	CHAPMAN, DOUGLAS C
13	ROCCA, CHRIS & SUSAN
14	KOTHAPALLI, PRASAD & RAJANA
15	GAILUS, STANLEY
16	ALLEGRETTO, R S & M J
17	GEAR, WM L
19	SARENDRAM, FARAVAMA & POO
23	KRAFT, G
24	MUNRO, K J
25	NICHOLS, M I
27	GEAR, ROBT C
29	LEE, LIZ & DONNA LEE, WILLIAM R, III
32	YU, K
33	FATAL, A & J
34	LIND, MAYNARD M
35	GRANDI, GLORIA
37	NICHOLS, RICHARD D & JOYCE E
39	FONG, WAYNE M
40	DAY, EUGENE L
41	VOLPE, C C
43	MULLEN, EDW & JEAN
44	FITCH, HILBERT E
45	GILMAN, CHAS S
46	MCCARTHY, MICHAEL J
47	CHIUVE, ROBT J
49	ROSS, H B
51	DIRUSSO, RAYMOND JR & DONNA
52	DIANA, L
53	CADOTTE, ARIC CADOTTE, RYAN
54	NAG, SUMIT & SUMITRA NAG, SUMITRA & SUMIT
55	LEVINE, DAVID & ROSALYN
56	NASH, STEWART
58	BLAIS, M CURTICE, J
64	HARRIGAN, THOS & SUSAN

## FOX HILL RD

1992

177 ANDERSON, CHRISTOPHER & LYNDA  
 178 BEER, S & N  
 179 CALAUTTI, ROBT  
 180 COUGHLIN, PAUL  
 185 GOLDIE, JAS  
 187 WEISS, ARTHUR  
 189 LAWSON, JAS  
 190 TABALDI, JUNE  
 191 SCOTT, DAVID & CAROL  
 SIMPSON, RICHARD & SUSAN  
 193 RUBIN, LAWRENCE I  
 RUBIN, MICHELLE & JOSHUA  
 194 LAU, K  
 195 WALTON, JAS J & NANCY  
 202 TUCKER, EMANUEL J  
 204 COLLINS, JOHN P  
 206 MC GOWAN, DONALD A  
 208 DELUCA, MICHAEL & EMILY  
 209 HUDSON, RAYMOND A & MARIA  
 210 PHILLIPS, L B  
 212 SPANGLER, STANLEY L  
 213 MORRIS, JOHN  
 214 COCHRAN, PAUL M  
 216 BUTLER, RICHARD  
 218 FLYNN, PAUL J & DEBRA L  
 SHANLEY, DONALD J & ESTELLE  
 220 SWAIN, ROBT E  
 222 MORGANELLI, STEVEN & DEBRA  
 224 TRABUCCO, PAUL G  
 226 CARROLL, ROBT A  
 229 SOLOSKI, M R  
 230 CASEY, KATHLEEN M  
 SPINAZOLA, JOS E  
 231 HUNTER, MARK  
 RUD, MATTHEW J  
 233 SHERIDAN, THOS F  
 234 LAMB, GREGORY & ANDREA  
 LAMB, RONALD  
 236 OLEY, EDWIN J  
 237 O'CONNELL, MICHAEL & LAUREL  
 238 MACDONALD, DOUGLAS  
 MACDONALD, ROBT J  
 239 PERDICHIZZI, R F  
 246 ZAMANIAN, BERJ  
 247 DELOREY, DENNIS  
 248 KING, NEIL  
 249 MEA, A

**WESTWOOD ST 1992**

1	SHIELDS, AL N
2	MAUCHAN, JOS F MCLAUGHLIN, RICHARD
3	ULTSCH, IRENE ULTSCH, TAMMY
4	CARNELL, CHAS E
5	SHUTAN, MICHAEL JAY
7	CANNING, KENNETH JR & DONNA
9	KEAVY, ALBERT & MARIE
12	CHAPMAN, DOUGLAS C
13	SEFCIK, SUSAN
15	GAILUS, STANLEY
19	SARENDRAM, FARAVAMA & POO
23	KRAFT, G
24	MUNRO, K J
25	NICHOLS, M I
27	GEAR, ROBT C
29	LEE, WILLIAM R, III
32	YU, K
33	FATAL, A & J
34	LIND, MAYNARD M
37	NICHOLS, RICHARD D & JOYCE E
39	FONG, CONRAD
40	DAY, EUGENE L
41	CHAMBERLAIN, JOHN J, JR
43	MULLEN, EDW & JEAN
44	FITCH, HILBERT E
45	MAKRIS, MILTON I
46	MCCARTHY, MICHAEL J
47	CHIUVE, ROBT J
49	ROSS, H B
51	DIRUSSO, RAYMOND JR & DONNA
53	CADOTTE, RACHELLE
54	NAG, SUMITRA & SUMIT
55	LEVINE, DAVID & ROSALYN
56	JOHNSON, TOM F & J A
58	CURTICE, J MCPHERSON, MICHAEL & CHERYL
64	HARRIGAN, THOS & SUSAN

FOX HILL RD 1989

Table listing addresses and phone numbers for the NP 01803 area, including Peter E McCafferty, Howard W Schaebe, Richard F Steadman, and Daniel McGarthy.

Table listing addresses and phone numbers for the NP 01803 area, including John E Burgomaster, Agostin R Gulla, Joseph F Hayes, William F McGarry, and Richard J Phelan.

Section for FOREST RD 01803, listing addresses from Pathwood Ave to Dead End, including John E Woodbury Jr, Samuel Shukri, Ronald Gengo, and Ralph F Coveno Jr.

Section for FRANCIS RD 01803, listing addresses from 12 Newbridge Ave to Stops 68, including Daniel O'Brien, M P O'Brien, M Bussell, and Bruce A Whitney.

Section for FOSTER RD 01803, listing addresses from Francis Wyman Rd to Dead End, including Roger C Plaisted, Victor P Oliver, Kenneth P Ray, and Ronald P Marchand.

Section for FRANCIS WYMAN RD 01803, listing addresses from 381 Cambridge St to 104 Bedford Street, including Reid Brathwaite, Robert D MacLean, and Michael Bova.

Section for FOUR ACRE DR 01803, listing addresses from Cambridge Street to Dead End, including W Thomas Curry, Arthur E Smith, and Stanley W Anderson.

Section for FRANCIS WYMAN RD 01803, listing addresses from 381 Cambridge St to 104 Bedford Street, including Reid Brathwaite, Robert D MacLean, and Michael Bova.

Section for FOWLER TERR 01803, listing addresses from Terrace Hill Avenue to Dead End, including N A Cirillo Jr, Michael J Petrino, and John Sousa.

Section for FRANCIS WYMAN RD 01803, listing addresses from 381 Cambridge St to 104 Bedford Street, including Reid Brathwaite, Robert D MacLean, and Michael Bova.

Section for FOX HILL RD 01803, listing addresses from Beaver Brook to Dead End, including C Anderson, S Beer, Robert Calautti, and Paul Coughlin.

Section for FRANCIS WYMAN RD 01803, listing addresses from 381 Cambridge St to 104 Bedford Street, including Reid Brathwaite, Robert D MacLean, and Michael Bova.



## WESTWOOD ST 1989

## ● WESTWOOD ST 01803

Off Wilmington Road To Dead End

	1- 99 CT3321	\$A..F17
1	Al N Shields . . . . .	65 272-5512
2	Joseph F Mauchan . . . . .	85 272-4087
	Richard McLaughlin . . . . .	62 272-4991
3	Irene Ultsch . . . . .	73 272-7104
4	Charles E Carnell . . . . .	86 273-4486
5	Michael Jay Shutan . . . . .	86 229-6277
7	Kenneth Canning Jr . . . . .	□ 272-3636
9	Albert Keavy . . . . .	84 272-5198
12	Douglas C Chapman . . . . .	62 272-9033
15	Stanley Gailus . . . . .	71 272-5847
19	21 . . . . .	NP
23	G Kraft . . . . .	80 273-2932
24	K J Munro . . . . .	76 273-1592
25	Alan Fairfax . . . . .	□ 273-4727
27	Robt C Gear . . . . .	87 272-8354
28	. . . . .	NP
32	K Yu . . . . .	83 272-7093
33	Wayne Hyam . . . . .	86 229-2102
34	Maynard M Lind . . . . .	71 272-0454
35	Maria H Grandi . . . . .	84 229-8949
37	Richard D Nichols . . . . .	74 272-6647
39	Conrad Fong . . . . .	84 229-6558
40	Eugene L Day . . . . .	78 272-7193
41	J J Chamberlain Jr . . . . .	79 272-6796
43	Edward Mullen . . . . .	74 272-8780
44	Hilbert E Fitch . . . . .	62 272-1904
45	Milton I Makris . . . . .	83 272-0943
46	Michael J McCarthy . . . . .	83 273-0176
47	Robert J Chiuve . . . . .	85 273-1198
48	C Caetano . . . . .	82 273-0725
49	H B Ross . . . . .	79 272-5563
51	Raymond Dirusso Jr . . . . .	85 229-0015
52	C Diana . . . . .	83 229-6343
55	David Levine . . . . .	87 229-6202
56	Tom F Johnson . . . . .	78 272-4197
58	J Curtice . . . . .	78 273-0248
	Scott Curtice . . . . .	□ 273-1303
62	Chander Patil . . . . .	87 229-8144
64	Jas Franey . . . . .	87 272-3099
	40 RESIDENCE	

## FOX HILL RD 1984

FOX HILL RD	BURLGTN
Begins Beaver Brook To Dead End	
.....	01803
<b>019310</b>	
177 I-Kang Huang . . . . .	.82 229-2045
178 S Beer . . . . .	.82 229-2320
179 Robert Calautti . . . . .	.79 273-3118
180 Paul Coughlin . . . . .	.68 272-0822
184 . . . . .	.NP
185 Joseph Pimentel Jr . . . . .	.79 272-4095
186 Ralph W Hosey . . . . .	.80 273-1492
187 Howard H Ma . . . . .	.80 273-1733
189 . . . . .	.NP
190 P Raghuraman . . . . .	.79 272-8059
191 Richard Simpson . . . . .	.80 272-6046
192 Alec A Vlahos Jr . . . . .	.78 272-4114
193 Lawrence I Rubin . . . . .	.79 272-1312
194 . . . . .	.NP
196 Bob Cohen . . . . .	.80 272-7442
202 Emanuel J Tucker . . . . .	.72 272-7294
204 John P Collins . . . . .	.62 272-0986
207 Deborah Ann Moore . . . . .	.80 273-3148
209 Albert J Dubois . . . . .	.80 272-2040
210 Lillian B Phillips . . . . .	.62 272-4148
212 Stanley L Spangler . . . . .	.70 272-5367
213 John Morris . . . . .	.68 272-0098
214 Paul M Cochran . . . . .	.62 272-5523
216 Richard Butler . . . . .	.66 272-3651
218 Donald J Shanley . . . . .	.62 272-2095
220 Robert E Swain . . . . .	.62 272-5374
222 Alan G Hirst . . . . .	.81 273-1523
224 Paul G Trabucco . . . . .	.62 272-1830
226 Robert A Carroll . . . . .	.66 272-4246
229 Richard E Soloski . . . . .	.69 272-4971
230 Albert J Schmider . . . . .	.65 272-9582
231 David Rud . . . . .	.78 273-0625
232 Andrew Johnson . . . . .	.72 272-7845
233 Thomas F Sheridan . . . . .	.62 272-5099
234 Ronald Lamb . . . . .	.65 272-5591
236 Edwin J Oley . . . . .	.65 272-1536
237 Michael Tenore . . . . .	.65 272-5466
238 Robert J MacDonald . . . . .	.65 272-0212
239 R F Perdichizzi . . . . .	.74 272-5942
241 . . . . .	.NP
246 Berj Zamanian . . . . .	.71 272-8159
247 Dennis Delorey . . . . .	.82 272-5342
248 Neil King . . . . .	.82 272-4696
249 A Mea . . . . .	.62 272-5494
M Mea . . . . .	.62 272-8347
250 Edward D Crosby . . . . .	.73 272-8827
No # John E Burgomaster . . . . .	272-5123
No # M G Geragosian . . . . .	.78 272-5117
No # Agostin R Gulla . . . . .	272-4896
No # Joseph F Hayes . . . . .	272-5061
No # William F McGarry . . . . .	272-5241
No # Richard J Phelan . . . . .	272-1627
52 Residence	

# WESTWOOD ST 1984

25 Robert B Bradbury .75 664-6327	51 . . . . .NP
26 Philip Maguire .76 664-2335	52 C Diana . . . . .a 229-6343
27 Anthony M Moretti .80 664-5243	56 Tom F Johnson .78 272-4197
28 William J Murphy .77 664-2851	58 J Curcio . . . . .78 273-0248
29 Angelo Petrosino .79 664-2030	62 V M Sacchetti .78 272-1713
31 Robert P Cuzzo .76 664-5183	64 Thomas J McGiynn .78 272-4191
32 Anthony Moda .76 664-4770	36 Residence
34 Michael W Forrest .76 664-6630	
38 Peter A Wheeler .79 664-5438	
40 Wesley F Ladd .78 664-3880	
No # D W Bergamasco .75 664-2251	
No # Richard A Trojano .75 664-4894	
30 Residence 2 Business	
<b>WESTWOOD RD MEDFORD</b>	
From 30 Sherwood	
Road To	
Massachusetts Ave	
. . . . . 02155	
1- 198 TZ3391 SA..	
054740	
18 J Harrington Jr .81 391-7976	
22 E A Scalzilli .63 395-6283	
26 Anthony F Mercurio .63 395-1006	
30 M J Harris .65 395-5386	
34 Anthony L Klempa .70 396-8118	
39 . . . . .NP	
40 Joseph A Finn .71 395-1637	
41 Samuel Alosso .76 396-6281	
50 . . . . .NP	
53 Gordon J Cocks .63 396-0291	
★J Gordon Cocks 391-6807	
Thomas Cocks . . . . .a 391-3055	
Mrs P Jos Corrigan .63 396-0291	
54 C E Lacouture .63 396-4186	
57 Peter L Kearn .76 391-1379	
61 L S Kloppenburg .63 396-4197	
65 Giro Tonzillo .76 395-6260	
68 G A Iannacone .72 391-9106	
71 Karl A Niemi .72 391-7493	
72 P Towne .74 391-6262	
76 James Gardner . . . . .a 396-1416	
Paul V Gardner .72 395-7734	
80 Robert F Frigan .63 396-0930	
81 W Alessandrini .63 391-2761	
85 Albert E Crease Jr .67 396-6473	
86 Joseph Ronchetti .63 396-1326	
92 Daniel Aureli .79 391-1694	
96 Jerry Citro .68 396-0756	
B Duncan . . . . .a 391-1507	
97 G Rudzinski .63 396-5897	
100 John F Diptero .78 391-5649	
106 Peter Hendrickson .80 396-5156	
116 Alfred Diptero .63 396-5311	
130 Charles P Landry .63 396-6033	
133 Anthony J Previli .63 396-3782	
139 Philip W Towne .74 395-5323	
143 Dennis F Lordan .75 396-8196	
146 Joseph Desimone .81 395-6126	
148 . . . . .NP	
152 A M Laporta .72 395-5023	
39 Residence 1 Business	
<b>WESTWOOD RD STONEHM</b>	
From 12 Governor	
Road To 9 Sherwood	
St . . . . . 02180	
1- 125 TZ3372 SA..	
054750	
19 James Reynolds Jr . . . . .a 438-5396	
25 . . . . .NP	
36 Patrick J Connolly .70 438-1181	
39 Stephen MacLeod .82 438-5510	
42 Francis T Demarcki .63 438-1626	
43 Raymond P Johnson .63 438-0310	
51 Eugene R Cremins .63 438-2615	
52 C Walter Scott .63 438-0462	
57 Francis J Burns .63 438-4143	
58 Frank J Bird Jr .63 438-3286	
63 Philip A Pantano .70 438-4055	
64 Bernard S Lebecki .63 438-1109	
67 Stephen T Burnham .80 438-3241	
70 Peter K Fong . . . . .a 438-6144	
73 James R Pallotta .68 438-9271	
78 Nicholas P Armato .65 438-1652	
79 Roy Phelps .76 438-6416	
84 Peter Nelson .82 438-4817	
Waldo Nelson .79 438-5325	
<b>NORTH GATE RD</b>	
89 Richard Kausian .81 438-1316	
92 C S Cleveland .81 438-3210	
94 William J Leonard .63 438-2939	
95 John J Santososso .63 438-0267	
106 George E Phelps .71 438-3198	
114 Robert H Bullen .79 438-4219	
115 George W Cushman .68 438-4199	
26 Residence	
<b>WESTWOOD ST BURLGTN</b>	
Off Wilmington	
Road To Dead End	
. . . . . 01803	
054760	
1 Al N Shields .65 272-5512	
2 Richard McLaughlin .62 272-4991	
3 Irene Ultsch .73 272-7104	
K E Ultsch .73 272-2499	
4 Arthur G Melinsh .65 272-0338	
5 John T Turner .79 272-2477	
12 Douglas C Chapman .62 272-9033	
15 Stanley Gailus .71 272-5847	
19 J G Walsh . . . . .a 272-2865	
21 M Gilbert Jr .80 272-5459	
23 G Kraft .80 273-2932	
24 K J Munro .76 273-1592	
25 John E Rice . . . . .a 273-4727	
27 . . . . .NP	
28 William E White .81 272-7641	
32 K Yu . . . . .a 272-7093	
33 . . . . .NP	
34 Maynard M Lind .71 272-0454	
35 . . . . .NP	
37 Richard D Nichols .74 272-6647	
39 Richard F Beckham .70 272-5358	
40 Eugene L Day .78 272-1933	
41 J J Chamberlain Jr .79 272-6796	
43 Edward B Mullen .74 272-8780	
44 Hilbert E Fitch .62 272-0699	
45 Milton I Makris . . . . .a 272-0943	
46 Michael J McCarthy .73 273-0176	
47 Philip Hsieh .79 273-4057	
48 C Casiano .82 273-0725	
49 H B Ross .79 272-5563	
<b>WHARTON PK WAKEFLD</b>	
Begins 509 Lowell	
St To 266 Salem	
Street . . . . . 01880	
99 TZ3353 SB..	
054770	
1 M I Leavitt Jr . . . . .70 245-9398	
5 John H Johnson .80 245-1448	
6 Harry C Pebley .74 245-7671	
Mark Pebley . . . . .82 246-0807	
11 James J Callanan . . . . .56 245-0400	
James J Callanan . . . . .246-0112	
13 Jean C Hartshorne .78 245-1920	
15 John F Magure Jr .56 245-5665	
17 Orlando J Fratto .71 245-5536	
18 John C Cornelio .63 245-3502	
19 Jas J Callanan Jr . . . . .a 246-4131	
21 Gaston E Loubris .56 245-3147	
24 Everett E Packard .56 245-0265	
30 John J Hurton Jr .72 245-1285	
35 Robert M Kimball .56 245-5430	
36 Robert R Jones .72 245-4078	
16 Residence	
<b>WHEATLAND ST BURLGTN</b>	
Off Wilmington	
Road To Dead End	
. . . . . 01803	
054780	
1 Ralph H Segel . . . . .73 272-1063	
4 W H Koutrouba .65 272-2148	
6 Robert Mottolo .72 272-8194	
9 Carole Scotto . . . . .a 229-6344	
12 Paul V Melle . . . . .82 272-6691	
11 John F Kenney .76 272-6581	
12 Frank J Melanson .62 272-0508	
13 Robert J Johnson .72 273-1047	
15 H Shannon . . . . .76 272-8292	
17 John E Gogolinski .68 272-1410	
18 Charles N Elliott .56 272-0148	
24 Jon Scanlon .78 272-4409	
25 . . . . .NP	
26 Mark Heminway . . . . .a 272-6351	
28 George A Skellton .70 272-6635	
29 Sudershan Taneja . . . . .a 272-4418	
33 Rakesh K Aggarwal . . . . .a 273-0203	
34 Chen Hsi Lin . . . . .82 273-0395	
35 Jamie Dostou . . . . .a 272-0232	
37 James P Dunphy . . . . .a 229-6633	
40 Nicholas Lanni Jr . . . . .a 229-2986	
No # John MacDonnell . . . . .a 229-2161	
22 Residence	
<b>WHEELER AVE MEDFORD</b>	
Begins 70 Medford	
St Stops 21 Bow	
Street . . . . . 02155	
1- 99 TZ3396 SD..	
054790	
7 Dennis P Creamer . . . . .68 395-3678	
Mrs Mary Harris . . . . .68 395-3678	
8 Shirley F Young . . . . .81 396-7920	
10 William P Todd . . . . .65 395-7644	
14 James Sicuso .71 395-8359	
15 D Leclerc . . . . .81 396-9367	
K Leonard . . . . .81 396-9367	
Tracy Richardson . . . . .a 396-7141	
M F Teahan . . . . .77 396-2166	
16 . . . . .NP	
17 Laura M Fasano . . . . .71 396-8159	
19 Cosmo Develis . . . . .73 391-7071	
20 Joseph Mazzola .63 395-6155	
Rev Joseph Mazzola .79 396-6491	
14 Residence	
<b>WHEELER AVE MELROSE</b>	
379 Swains Pond	
Ave Stops At Grove	
Street . . . . . 02176	
1- 199 TZ3363 SB..	
054800	
1 Kenneth W Ross Jr . . . . .78 665-9428	
7 Carl I Asplind . . . . .63 665-0332	
9 John R Sousa . . . . .72 662-7237	
17 W William Unger . . . . .63 665-4897	
21 . . . . .NP	
25 Roy H Davis . . . . .63 665-6948	
30 Nicholas Hamhoomis . . . . .77 665-8336	
32 Anthony Dambrosio . . . . .a 662-4834	
66★Dr Leslie S Radnay . . . . .665-6419	
67 Ted Distaso . . . . .63 662-9692	
70 George Tura . . . . .63 665-4355	
71 Charles A O'Dowd . . . . .82 665-6188	
76 James I Burke . . . . .73 665-4271	
80 . . . . .NP	
81 W M Puddster . . . . .79 662-9078	
87 Peter C Tura . . . . .78 665-5937	
90 L A Spence . . . . .78 665-5912	
91 Edward Priestley . . . . .79 665-3634	
94 Robert E Snow . . . . .63 665-2165	
95 Stephen G Leone . . . . .78 662-6387	
97 Paul B Delaney . . . . .63 665-4939	
98 Peter Mastangelo . . . . .70 662-9347	
103 Robert Bossio . . . . .78 665-4250	
110 Donato Ventresca . . . . .68 662-6883	
111 Albert Brandano . . . . .63 665-7456	
24 Residence 1 Business	
<b>WHEELER RD BURLGTN</b>	
From Blanchard	
Road Stops	
Lexington Line	
. . . . . 01803	
054810	
0 Brian E Smith . . . . .a 272-8065	
2 Karen Downer . . . . .79 272-4644	
★Frost & Higgins Co . . . . .272-4257	
Richard E Silvia . . . . .82 272-6368	
Michael Woodward . . . . .81 273-2534	
128★Dustin Engineering . . . . .273-4180	
★Shah Construction . . . . .273-5560	
160★US Windpower . . . . .273-4502	
★U S Windpower . . . . .273-4502	



## FOX HILL RD 1975

FOX HILL RD		BURLGTN
.....		
STARTS BEAVER BRK		
		01803
1-	END T 3321	\$A..E 3
158	PAULINE ARTHUR	9 2721365
	PERLEY J ARTHUR	9 2724470
160	BRUCE K BARNARD	8 2720143
163	LEONARD J EGAN	3 2731908
164	GEORGE W RYAN	8 2724333
165	ROGER J LAVOIE	2723389
170		NP
171	MICHAEL H BERLOW	2722625
	MICHAEL H BERLOW	2731192
172	BERNARD B HURWITCH	8 2722748
174		NP
175	THOMAS L GENTRY	-2726590
176	CARLOS R DOWNER	5 2725138
178	NEVILLE J BAIA	2725292
180	MARILYN COUGHLIN	8 2720822
182*	DR MUKTI DAS	2731808
202	EMANUEL J TUCKER	2 2727294
204	JOHN P COLLINS	2720986
206		NP
207		NP
209		NP
210	LILLIAN B PHILLIPS	2724148
211		NP
212	STANLEY L SPANGLER	0 2725367
213	JOHN MORRIS	8 2720098
214	PAUL M COCHRAN	2725523
216	RICHARD BUTLER	6 2723651
218	DONALD J SHANLEY	2722095
220	ROBERT E SWAIN	2725374
222	HANS P IKLER	2 2727274
	HANS P IKIER	2731909
224	PAUL G TRABUCCO	2721830
226	ROBERT A CARROLL	6 2724246
228		NP
229	JOHN R SOLOSKI	9 2724485
	RICHARD E SOLOSKI	2724971
230	ALBERT J SCHMIDERS	5 2729582
231	REV WARREN W WEST	3 2731625
232	ANDREW JOHNSON	2 2727845
	E ANDREW JOHNSON	1 2727845
233	THOMAS F SHERIDAN	2725099
234	RONALD LAMB	5 2725591
236	EDWIN J OLEY	5 2721536
237	MICHAEL TENORE	5 2725466



FOX HILL RD 1975

FOX HILL RD 1975 BOSTON

	.....		01803
238	ROBERT J MACDONALD		
		5	2720212
239	R F PERDICHIZZI		2725942
241	ROBERT L SULLIVAN	1	2725979
245		NP	
246	BERJ ZAMANIAN	1	2728159
247	MARTIN G STAUSS	8	2720068
248	GEORGE W SNELL		2721883
249	THOMAS E MEA		2725494
250	EDWARD D CROSBY	3	2728827
NO #	VITO ASARO	3	2725359
NO #	JOHN E BURGOMASTER		2725123
NO #	*FOX HILL SCHOOL		2726156
NO #	AGOSTIN R GULLA		2724896
NO #	JOSEPH F HAYES		2725061
NO #	B J MCGAFFIGAN JR		2721717
NO #	WILLIAM F MCGARRY		2725241
NO #	RICHARD J PHELAN		2721627
NO #	HENRY A SUBRIZIO		2725036
..	DEAD END		..
	60 RESIDENCE		2 BUSINESS

## WESTWOOD ST 1975

WESTWOOD ST BURLGTN

STARTS OFF WILMINGTON RD

..... 01803  
 ... 1- END T 3321 \$A..E 3  
 1 AL N SHIELDS 5 2725512  
 2 RICHARD MCLAUGHLIN 2724991  
 3 IRENE ULTSCH 3 2727104  
 9 WILLIAM A KINSLEY 3 2731845  
 11 NP  
 12 DOUGLAS C CHAPMAN 2729033  
 13 ALBERT T KEAVY 2722031  
 19 STANLEY GAILIUS 1 2725847  
 22 NP  
 23 B BALCHUNAS 2 2727778  
 24 RICHARD T HOLMES 3 2728451  
 25 CHARLES D NEVILLE 2 2727082  
 27 WILLIAM L GEAR 9 2726639  
 28 O J DEROSA 2720548  
 29 NP  
 32 NP  
 33 BARBARA A MCCLEERY-2730154  
 37 RICH D D NICHOLS JR-2726647  
 39 RICHARD F BECKHAM 0 2725358  
 40 CHARLES A ROSSIER 2 2720134  
 41 JOHN J CHAMBERLAIN 0 2726796  
 43 EDWARD B MULLEN 0 2728780  
 44 HILBERT E FITCH 2720699  
 46 JAMES MASCETTA 2723023  
 48 M GUNNING 9 2725792  
 CAPT B E JORDAN 5 2725792  
 NO # JOHN F GORMAN 2723359  
 NO # MAYNARD M LIND 2720454  
 NO # ARTHUR G MCINTOSH 2722038  
 .. DEAD END ..  
 29 RESIDENCE

FOX HILL RD 1970

83	N.T.I.A.	238	ROBERT J MACDONALD	5	2720212	
86	N.T.I.A.	239	LT CHAS N CALVANOT	7	2724522	
..	ENDS 237 RICE AV	245	ANTHONY R PATTI	5	2725896	
	25 RESIDENCE	246	N.T.I.A.			
FOWLER RD	BURLGTN	247	MARTIN G STAUSS	8	2720068	
STARTS 58		248	JOSEPH D MCGONAGLE	6	2725140	
TERRCE HL AV		249	THOMAS E MEA	6	2725494	
.....	01803	250	DAVID W BOHY	6	2725354	
....	1- END T 3323 \$B..G 2	NO #	MICHAEL H BERLOW		2722625	
4 A B FOWLER	2720442	NO #	JOHN E BURGOMASTER		2725123	
..	DEAD END	NO #	FOX HILL SCHOOL		2726156	
1 RESIDENCE		NO #	AGOSTIN R GULLA		2724896	
FOWLER TERR	BURLGTN	NO #	JOSEPH F HAYES		2725061	
STARTS		NO #	B J MCGAFFIGAN JR		2721717	
TERRACE HILL AVE		NO #	WILLIAM F MCGARRY		2725241	
.....	01803	NO #	RICHARD J PHELAN		2721627	
....	1- END T 3324 \$B..H 2	NO #	RICHARD E SOLOSKI		2724971	
1 N A CIRILLO JR	8	2723380	NO #	HENRY A SUBRIZIO	2725036	
3 WILLIAM H EDGAR	8	2721086	NO #	ROBERT L SULLIVAN	2725979	
4	N.T.I.A.	..	DEAD END			
5 DON HUMPHREY	2726844	..	55 RESIDENCE	1	BUSINESS	
6 MRS L E DONOVAN	8	2720039	FOX HUNT LN	WNCHSTR		
7 RONALD W DOIG	8	2725188	1 DAVID EWART	8	27298124	
8 JOHN DIFRANZA	8	2723124	1 RESIDENCE			
9 DANIEL A ALPERIN	8	2724689	FOX RD	WAKEFLD		
10 DAVID L SMITH	8	2726267	STARTS 14			
13 ROY H RENN	8	2722297	NEWELL RD			
..	DEAD END		.....	01880		
10 RESIDENCE			....	1- END T 3352 \$A..G 8		
FOXCROFT RD	WNCHSTR	1	MRS AGNES C CRONIN	8	2451756	
STARTS 41		7	FREDK J MERCURIO	8	2458137	
OXFORD ST		8	MRS P LARICCIA	8	2453328	
.....	01890	10	PAUL CAVALIERE	8	2451808	
....	1- END T 3383 \$A..J 5	11	JOHN F LEDOUX	8	2451254	
3 JACK SCHNEPS	8	27294559	SIDNEY S THOMPSON	8	2451254	
4 GEORGE A DEMARS	8	7293931	13 PAUL A RICHARD	8	2453714	
9 WILLIAM H FINCKE	8	7298947	15 MARION E WALKER	4	2453706	
15 ARTHUR T ROGGE	8	7292671	19 JAMES A FOX	8	2455205	
20 ANDRE W TERMEULEN	7	7297078	23 W H FAYLE	6	2453716	
21 CHARLES G GILL	8	7292407	27 GEORGE V ZAHAREAS	7	2456524	
..	YALE ST		28 DOMENICO A DEVITA	8	2454653	
25 CHAS F BUCKINGHAM	8	7293508	29 JOSEPH BOWEN	8	2451888	
G S PACETTI	8	7293508	30 JOHN S ADAMS	8	2452220	
..	WEDGEEMERE AV		33 JOSEPH BASILESCO	8	2453449	
32 DR GEORGE A MARKS	4	7292249	38 A J CICCARELLI	8	2454696	
..	SALISBURY ST		40 HENRY F DUNN	8	2450617	
35 P I BLUMBERG	8	7294075	41 VINCENT COLLINS	5	2455332	
36 JOHN J SHANAHAN	8	7293944	DENNIS HOGAN	5	2455332	
37 E OBER PRIDE	8	7291007	..	ENDS 45 JORDAN AV		
40 DR M J BUCKLEY	8	7297895	19 RESIDENCE			
41 BERRY L REECE JR	8	27298473	FRANCES RD	WOBURN		
43 WM B WOODBRIDGE	8	7295526	STARTS SENDRICK RD			
..	ENDS 141		.....	01801		
..	CAMBRIDGE ST		....	1- END T 3335 \$C..H 5		
15 RESIDENCE			2	LEONARD J PEARLESS	8	9352896
FOX HILL RD	BURLGTN	4	EDW W RICHARDSON	8	9332518	
STARTS BEAVER BRK		6	N.T.I.A.			
.....	01803	8	JOHN R MCLAUGHLIN	8	9351897	
....	1- END T 3321 \$B..E 3	9	WM G MCCLOSKEY	8	9334618	
158 PERLEY J ARTHUR	8	2724470	10	LOUIS C BUTLER JR	8	9353676
160 BRUCE K BARNARD	8	2720143	11	FRANCIS T CAHALAN	8	9350233
163 ROBERT R SNOOK	8	2723227	12	WALTER G JOHNSON	8	9351457
164 GEORGE W PYAN	8	2724333	13	DANIEL P PETINGE	8	9336680
165 ROGER J LAVOIE	8	2723389	14	CONRAD J GIROUARD	8	9332704
170	N.T.I.A.		15	MRS RUTH SPINNEY	8	9334993
172 BERNARD B HURWITCH	8	2722748	16	FRANCIS S NOLAN	8	9332269
174	N.T.I.A.		17	MERLE D COLLIER	8	9352679
175 JOHN K FLAHERTY	8	2726824	18	JOHN P BYKENS	8	9331153
176 CARLOS R DOWNER	5	2725138	19	THOMAS E ONEILL	8	9352037
178 NEVILLE J BAIA	8	2725292	20	RAYMOND P BELANGER	8	9337587
180 MARILYN COUGHLIN	8	2720822	21	E W RICHARDSON JR	4	9335605
202 FREDRICK A MOSELEY	8	2724841	22	N.T.I.A.		
204 JOHN P COLLINS	8	2720986	24	FRANK P CAMPBELL	8	9332979
206	N.T.I.A.		FRANK P CAPPELLO	8	9332979	
207	N.T.I.A.		M S CAPPELLO	8	9336885	
209	N.T.I.A.		..	ENDS ELLEN RD		
210 LILLIAN B PHILLIPS	8	2724148	21 RESIDENCE			
211	N.T.I.A.		FRANCES ST	MELROSE		
212	N.T.I.A.		STARTS 366			
213 JOHN MORRIS	8	2720098	PLEASANT ST			
214 PAUL M COCHRAN	8	2722080	.....	02176		
216 RICHARD BUTLER	6	2723651	....	1- END T 3364 \$B..J 9		
218 DONALD J SHANLEY	8	2722095	12	ANTONIO ANTONUCCI	8	6651838
220 ROBERT E SWAIN	8	2725374	13	DOMENIC DEANGELIS	8	6629516
222 JOHN P KEEFE JR	8	2729192	16	EARL R WELDON JR	6	6651304
224 PAUL G TRABUCCO	8	2721830	21	IRENE LEARY	8	6656628
226 ROBERT A CARROLL	6	2724246	22	N.T.I.A.		
228 ALEXANDER J GICHUN	8	2725725	30	MRS ELEANOR CLUKEY	8	6657754
229 JOHN R SOLOSKI	8	2724485	34	N.T.I.A.		
230 ALBERT J SCHMIDERS	5	2729582	35	LAWRENCE L SHEA	8	6659301
231	N.T.I.A.		LOUISE E SHEA	8	6629021	
232 ALLEN K STARK	5	2721807	..	BARTLETT ST		
233 THOMAS F SHERIDAN	8	2725099	38	JOSEPH A AMICONE	8	6629643
234 RONALD LAMB	5	2725591	42	ANDREW G SIMPSON	8	6656056
236 EDWIN J OLEY	5	2721536	45	GLADYS E OODGE	7	6653849
237 MICHAEL TENORE	5	2725466	WILLARD C DECKER	8	6651911	

WESTWOOD ST 1970

WESTWOOD ST

BURLGTN

STARTS OFF  
WILMINGTON RD

..... 01803

..... 1- END T 3321 58..E 3

- 1 AL N SHIELDS 5 2725512
- 2 RICHARD MCLAUGHLIN 2724991
- 3 FRANK J NEWARK 5 2725685
- 9 RUSSELL H CARLSON 2722044
- 11 GEORGE M RUZZO 2729316
- 12 DOUGLAS C CHAPMAN 2729033
- 13 ALBERT T KEAVY 2722031
- 22 MRS LOUISA BALDI 2720189



## WESTWOOD ST 1970

## WESTWOOD ST

24	LAWRENCE DRISCOLL	□	2726485
27	WILLIAM L GEAR	□	2726639
28	O J DEROSA		2720548
29	WALTER J PINGREE	7	2720505
32	KIN YU	□	2724369
37	MERRILL CRAMER	□	2724626
44	HILBERT E FITCH		2720699
46	JAMES MASCETTA		2723023
48	CAPT B E JORDAN	5	2725792
	M GUNNING	□	2725792
115	STANLEY GAILIUS	5	2725847
NO #	JOHN F GORMAN		2723359
NO #	MAYNARD M LIND		2720454
NO #	ARTHUR G MCINTOSH		2722038
..	DEAD END		..
	22 RESIDENCE		

FOX HILL RD 1968

Table listing street addresses and house numbers for FOX HILL RD and surrounding streets like FOWLER AVE, FOWLER RD, FOWLER TERR, FOXCROFT RD, FOX RD, and FRANCES RD. Includes details like 'STARTS', 'ENDS', and 'RESIDENCE'.

## WESTWOOD ST 1968


WESTWOOD ST

BURLGTN

STARTS OFF

WILMINGTON RD

	.....		01803
.....	1-	END T 3321	\$B..E 3
1	AL N SHIELDS	5	2725512
2	RICHARD MCLAUGHLIN		2724991
3	FRANK J NEWARK	5	2725685
9	RUSSELL H CARLSON		2722044
11	GEORGE M RUZZO		2729316
12	DOUGLAS C CHAPMAN		2729033
13	ALBERT T KEAVY		2722031
22	MRS LOUISA BALDI		2720189
24	N.T.I.A.		
27	HENRY A MARCHI	5	2722653
28	O J DEROSA		2720548
29	WALTER J PINGREE	7	2720505
44	HILBERT E FITCH		2720699
46	JAMES MASCETTA		2723023
48	CAPT B E JORDAN	5	2725792
115	STANLEY GAILIUS	5	2725847
NO #	JOHN F GORMAN		2723359
NO #	MAYNARD M LIND		2720454
NO #	L J MCCONNELL		2721089
NO #	ARTHUR G MCINTOSH		2722038
..	DEAD END		..
	20 RESIDENCE		



Fox Hill Elementary School  
252 Fox Hill Road  
Burlington, MA 01803

Inquiry Number: 7295798.3

March 31, 2023

## Certified Sanborn® Map Report



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)



# Certified Sanborn® Map Report

03/31/23

**Site Name:**

Fox Hill Elementary School  
252 Fox Hill Road  
Burlington, MA 01803  
EDR Inquiry # 7295798.3

**Client Name:**

ECMS, Inc.  
288 Grove Street #391  
Braintree, MA 02184  
Contact: Cheryl Cambria



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**Certification #** C85A-495F-B321  
**PO #** NA  
**Project** Fox Hill Elementary School

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Sanborn® Library search results

Certification #: C85A-495F-B321

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- University Publications of America
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Fox Hill Elementary School  
252 Fox Hill Road  
Burlington, MA 01803

Inquiry Number: 7295798.4

March 31, 2023

# EDR Historical Topo Map Report

with QuadMatch™



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# EDR Historical Topo Map Report

03/31/23

**Site Name:**

Fox Hill Elementary School  
252 Fox Hill Road  
Burlington, MA 01803  
EDR Inquiry # 7295798.4

**Client Name:**

ECMS, Inc.  
288 Grove Street #391  
Braintree, MA 02184  
Contact: Cheryl Cambria



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by ECMS, Inc. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

**Search Results:****Coordinates:**

<b>P.O.#</b>	NA	<b>Latitude:</b>	42.529052 42° 31' 45" North
<b>Project:</b>	Fox Hill Elementary School	<b>Longitude:</b>	-71.188461 -71° 11' 18" West
		<b>UTM Zone:</b>	Zone 19 North
		<b>UTM X Meters:</b>	320262.05
		<b>UTM Y Meters:</b>	4710839.90
		<b>Elevation:</b>	172.78' above sea level

**Maps Provided:**

2018	1947
2015	1944
2012	1943
1987	1918
1979	1915
1977	1893
1965	1888
1950	

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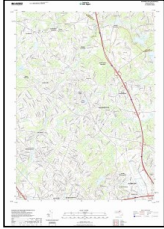
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## **Topo Sheet Key**

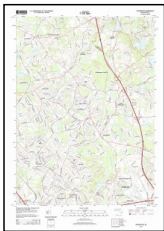
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### **2018 Source Sheets**



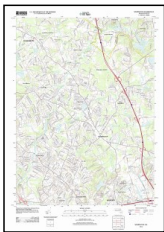
Wilmington  
2018  
7.5-minute, 24000

### **2015 Source Sheets**



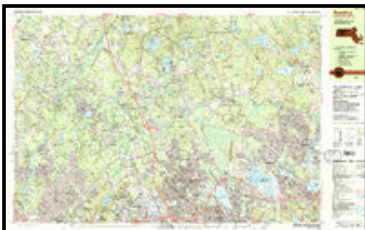
Wilmington  
2015  
7.5-minute, 24000

### **2012 Source Sheets**



Wilmington  
2012  
7.5-minute, 24000

### **1987 Source Sheets**



Reading  
1987  
7.5-minute, 25000  
Aerial Photo Revised 1978



## **Topo Sheet Key**

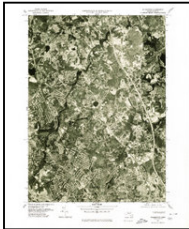
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### **1979 Source Sheets**



Wilmington  
1979  
7.5-minute, 25000  
Aerial Photo Revised 1977

### **1977 Source Sheets**



Wilmington  
1977  
7.5-minute, 25000  
Aerial Photo Revised 1977

### **1965 Source Sheets**



Wilmington  
1965  
7.5-minute, 24000  
Aerial Photo Revised 1939

### **1950 Source Sheets**

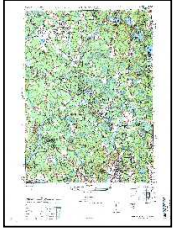


Wilmington  
1950  
7.5-minute, 24000

## **Topo Sheet Key**

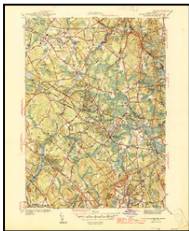
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### **1947 Source Sheets**



WILMINGTON  
1947  
7.5-minute, 25000

### **1944 Source Sheets**



Wilmington  
1944  
7.5-minute, 31680

### **1943 Source Sheets**



Lowell  
1943  
30-minute, 125000

### **1918 Source Sheets**

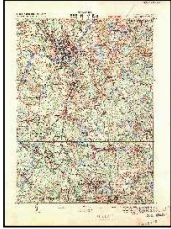


Lawrence  
1918  
15-minute, 62500

## **Topo Sheet Key**

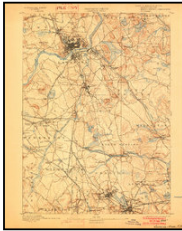
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### **1915 Source Sheets**



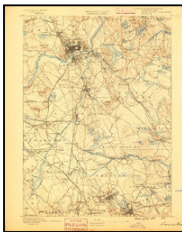
LAWRENCE  
1915  
15-minute, 62500

### **1893 Source Sheets**



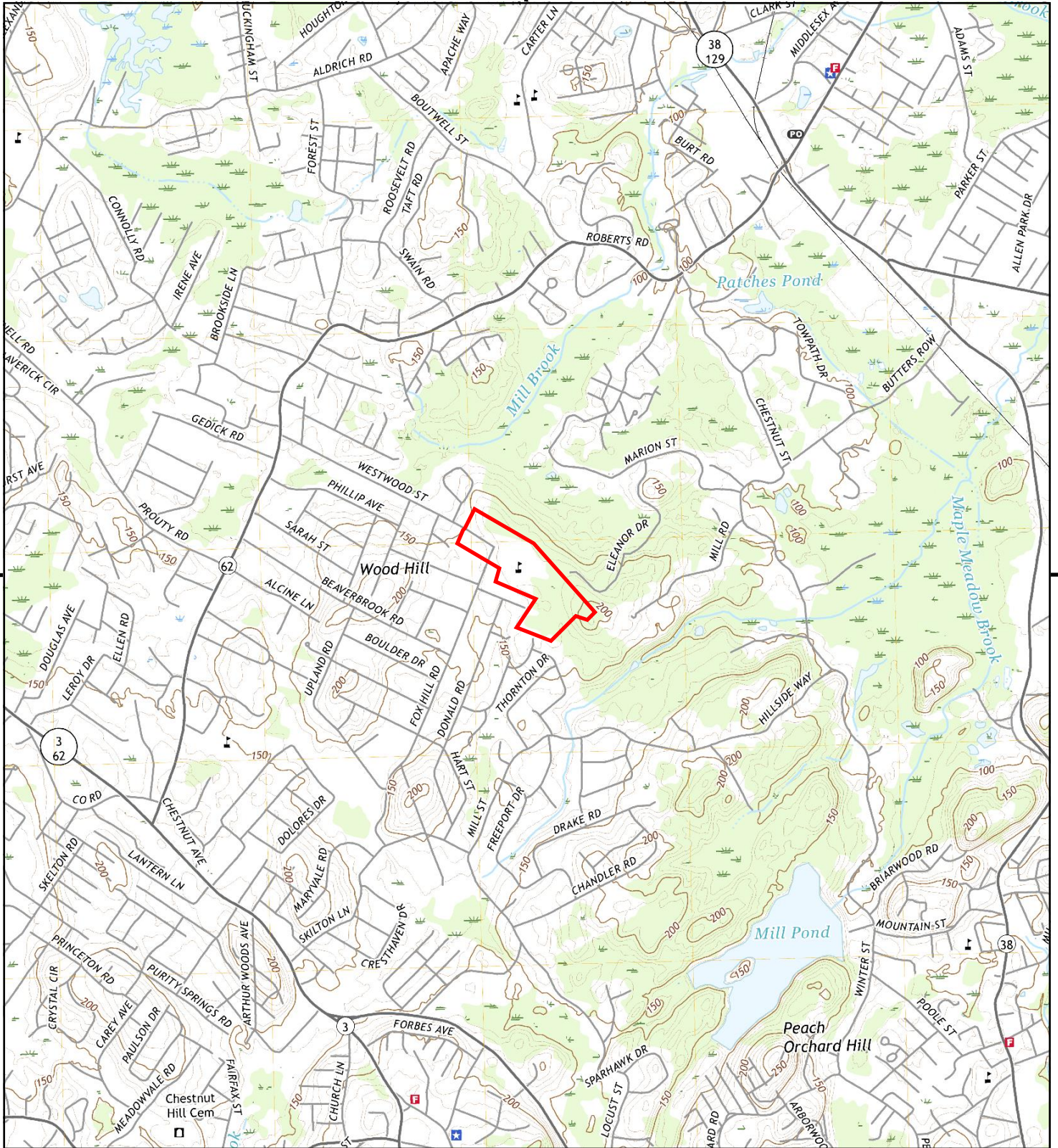
Lawrence  
1893  
15-minute, 62500

### **1888 Source Sheets**



Lawrence  
1888  
15-minute, 62500





This report includes information from the following map sheet(s).

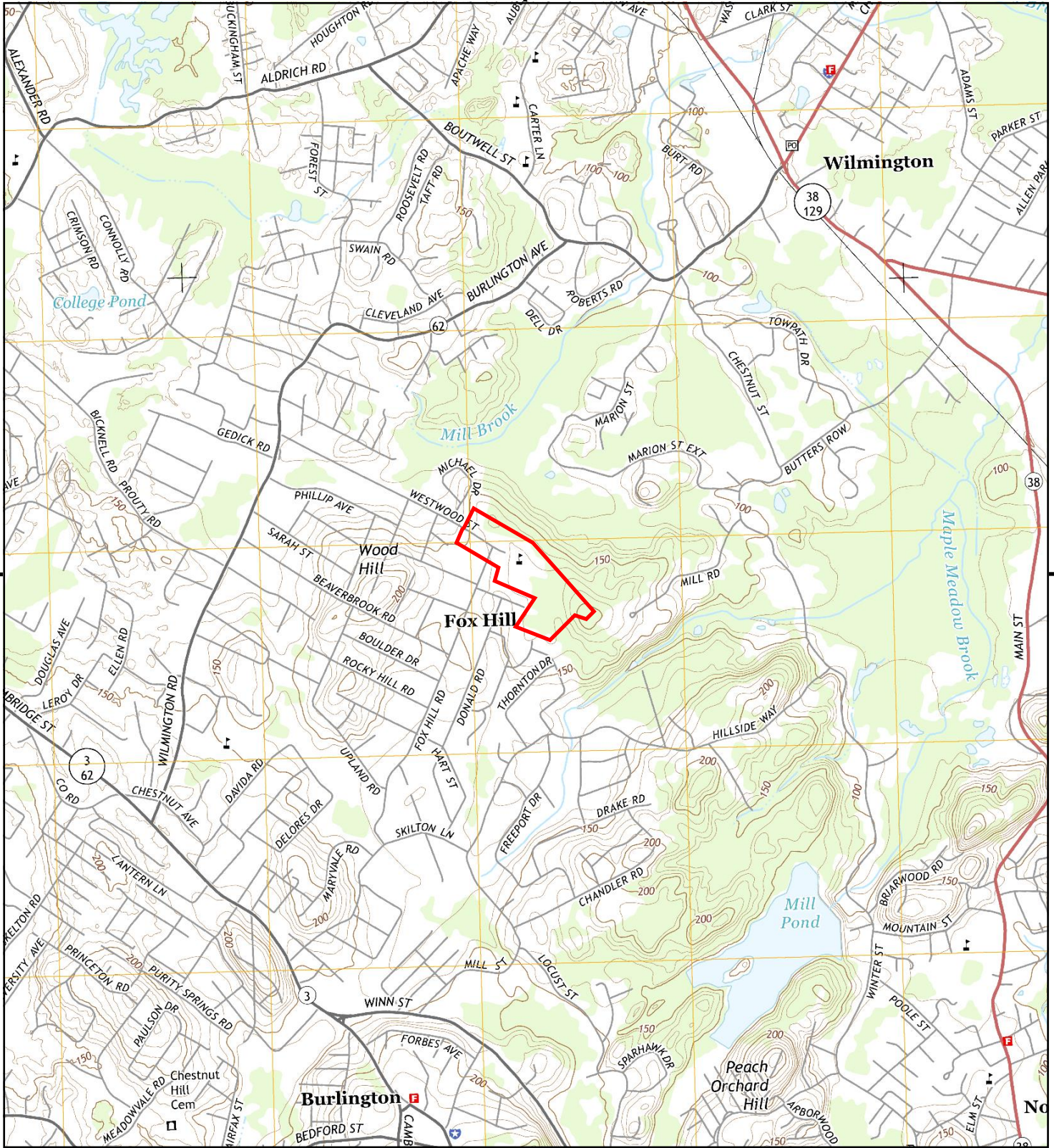


TP, Wilmington, 2018, 7.5-minute

**SITE NAME:** Fox Hill Elementary School  
**ADDRESS:** 252 Fox Hill Road  
 Burlington, MA 01803  
**CLIENT:** ECMS, Inc.







This report includes information from the following map sheet(s).

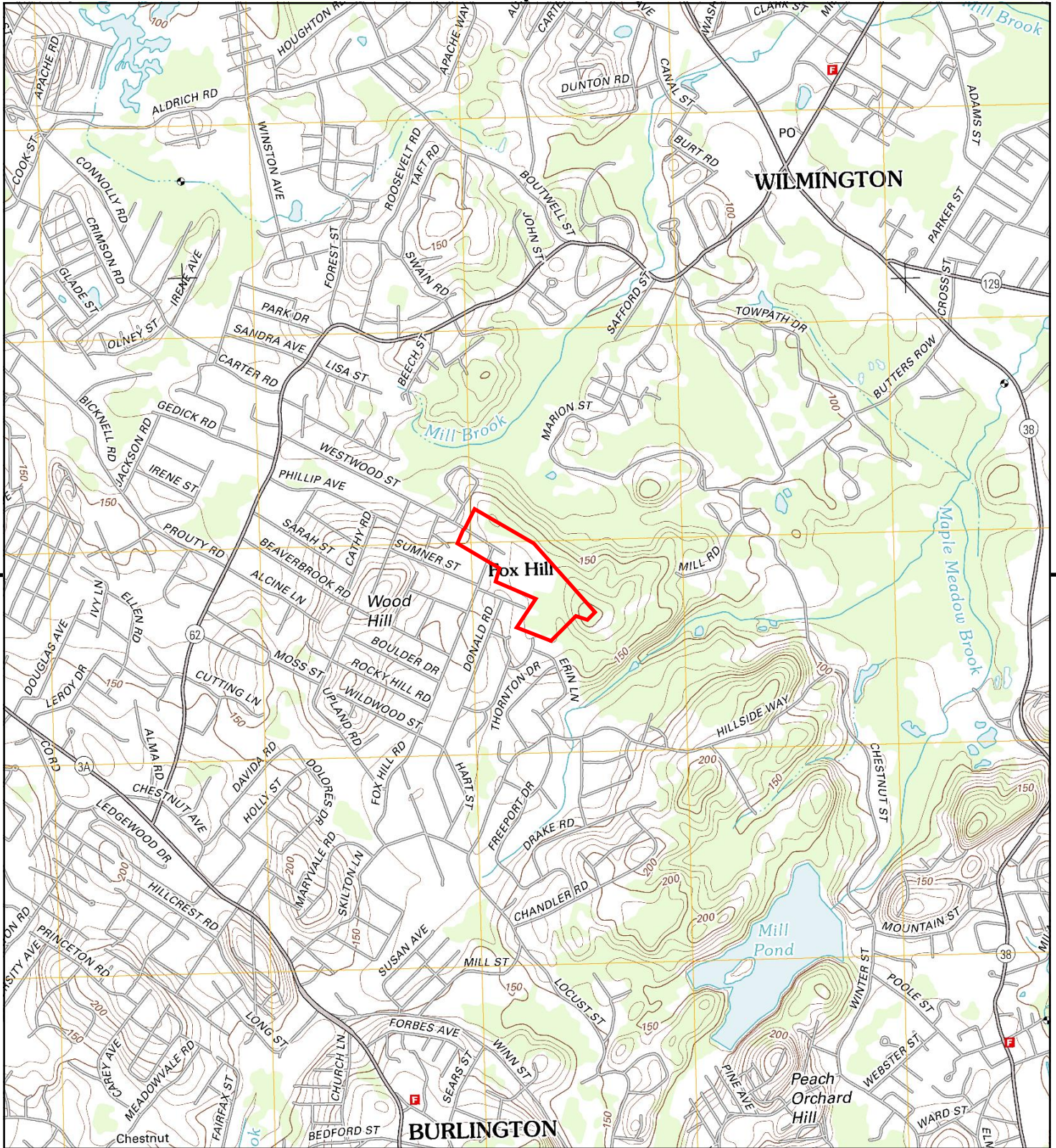


TP, Wilmington, 2015, 7.5-minute

**SITE NAME:** Fox Hill Elementary School  
**ADDRESS:** 252 Fox Hill Road  
 Burlington, MA 01803  
**CLIENT:** ECMS, Inc.







This report includes information from the following map sheet(s).

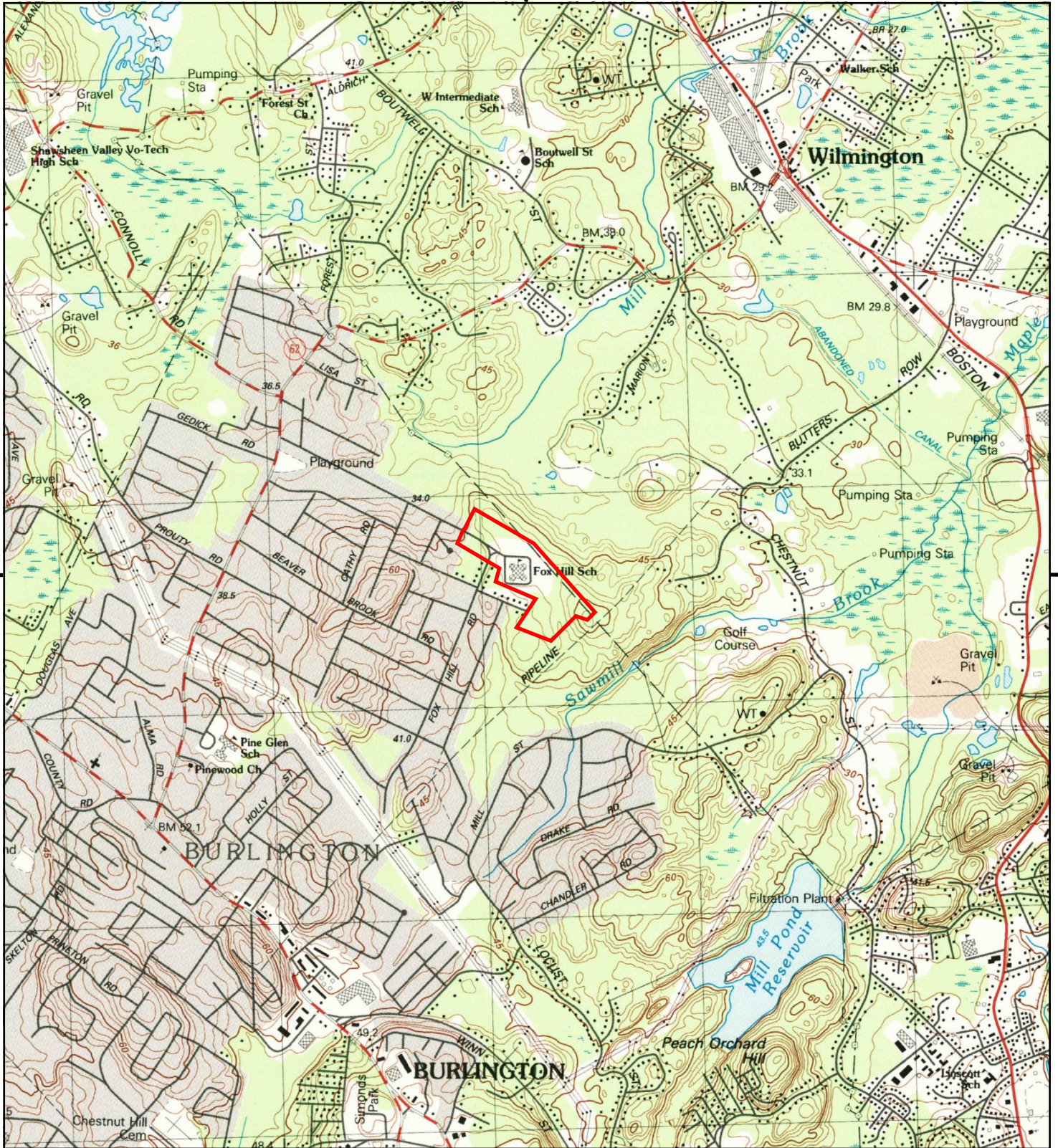


TP, Wilmington, 2012, 7.5-minute

**SITE NAME:** Fox Hill Elementary School  
**ADDRESS:** 252 Fox Hill Road  
 Burlington, MA 01803  
**CLIENT:** ECMS, Inc.







This report includes information from the following map sheet(s).

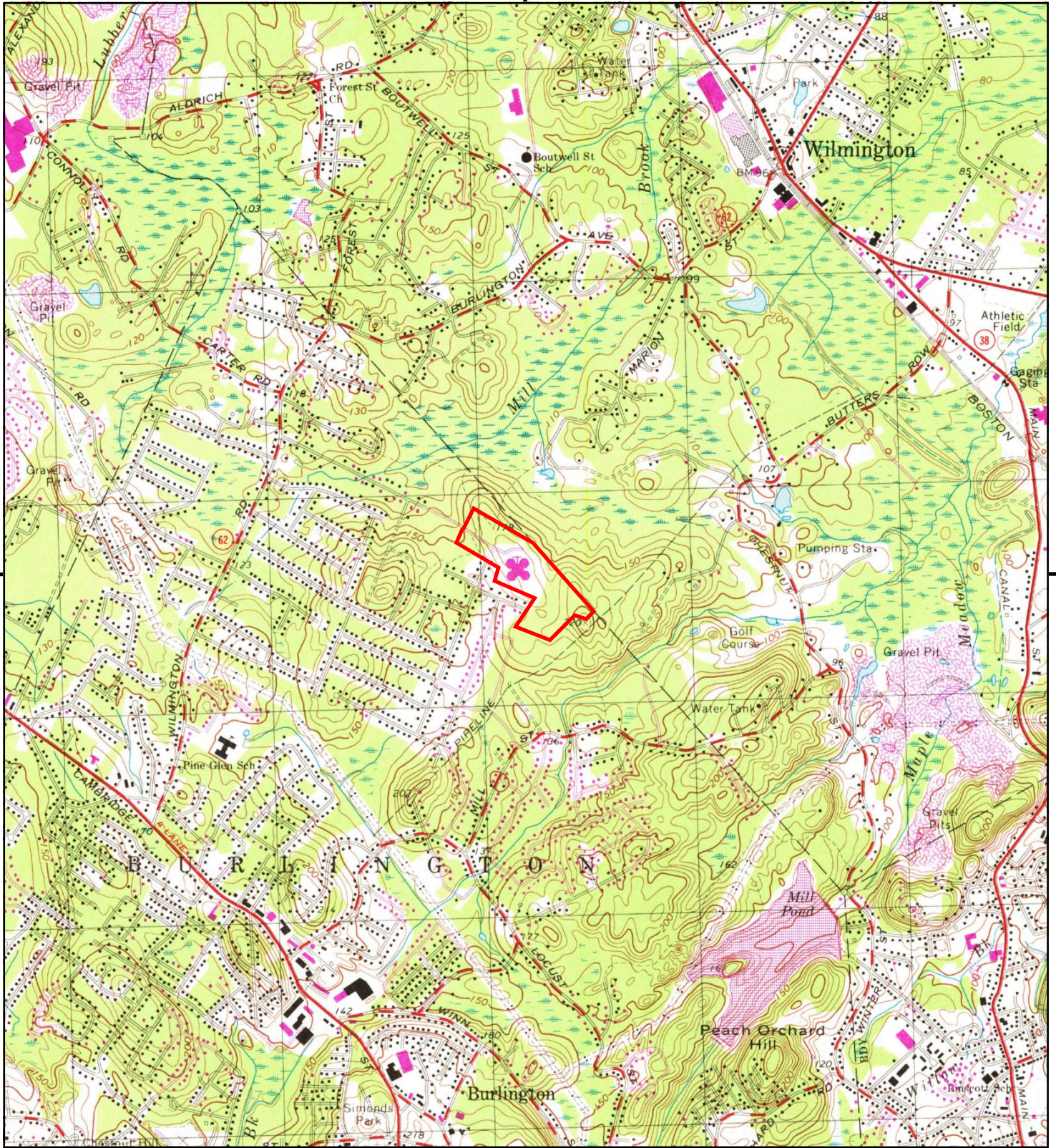


TP, Reading, 1987, 7.5-minute

**SITE NAME:** Fox Hill Elementary School  
**ADDRESS:** 252 Fox Hill Road  
 Burlington, MA 01803  
**CLIENT:** ECMS, Inc.







This report includes information from the following map sheet(s).



TP, Wilmington, 1979, 7.5-minute

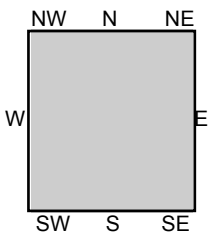
**SITE NAME:** Fox Hill Elementary School  
**ADDRESS:** 252 Fox Hill Road  
 Burlington, MA 01803  
**CLIENT:** ECMS, Inc.







This report includes information from the following map sheet(s).

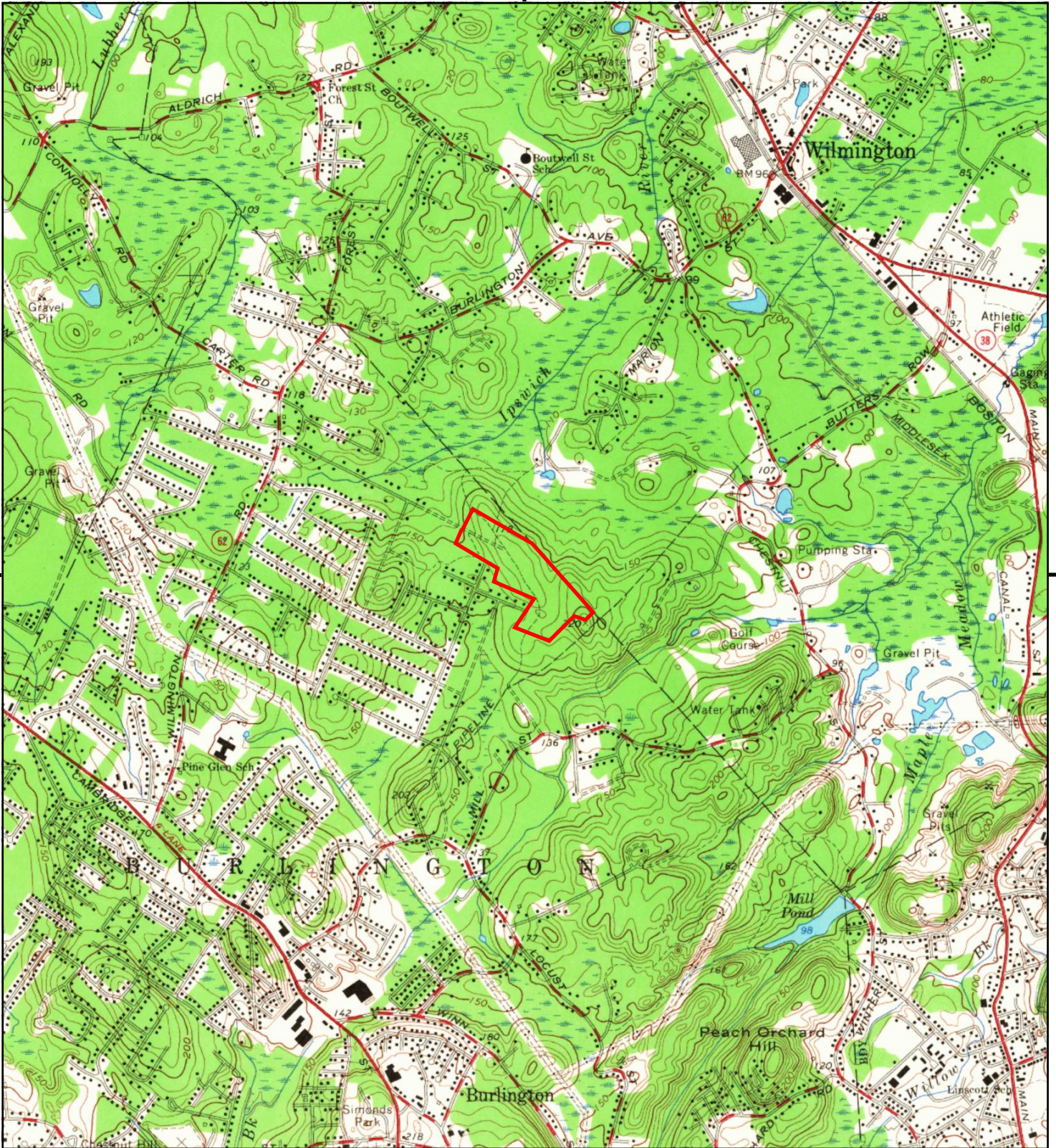


TP, Wilmington, 1977, 7.5-minute

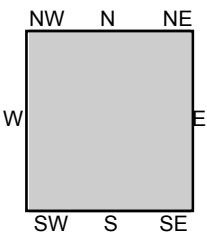
**SITE NAME:** Fox Hill Elementary School  
**ADDRESS:** 252 Fox Hill Road  
Burlington, MA 01803  
**CLIENT:** ECMS, Inc.







This report includes information from the following map sheet(s).

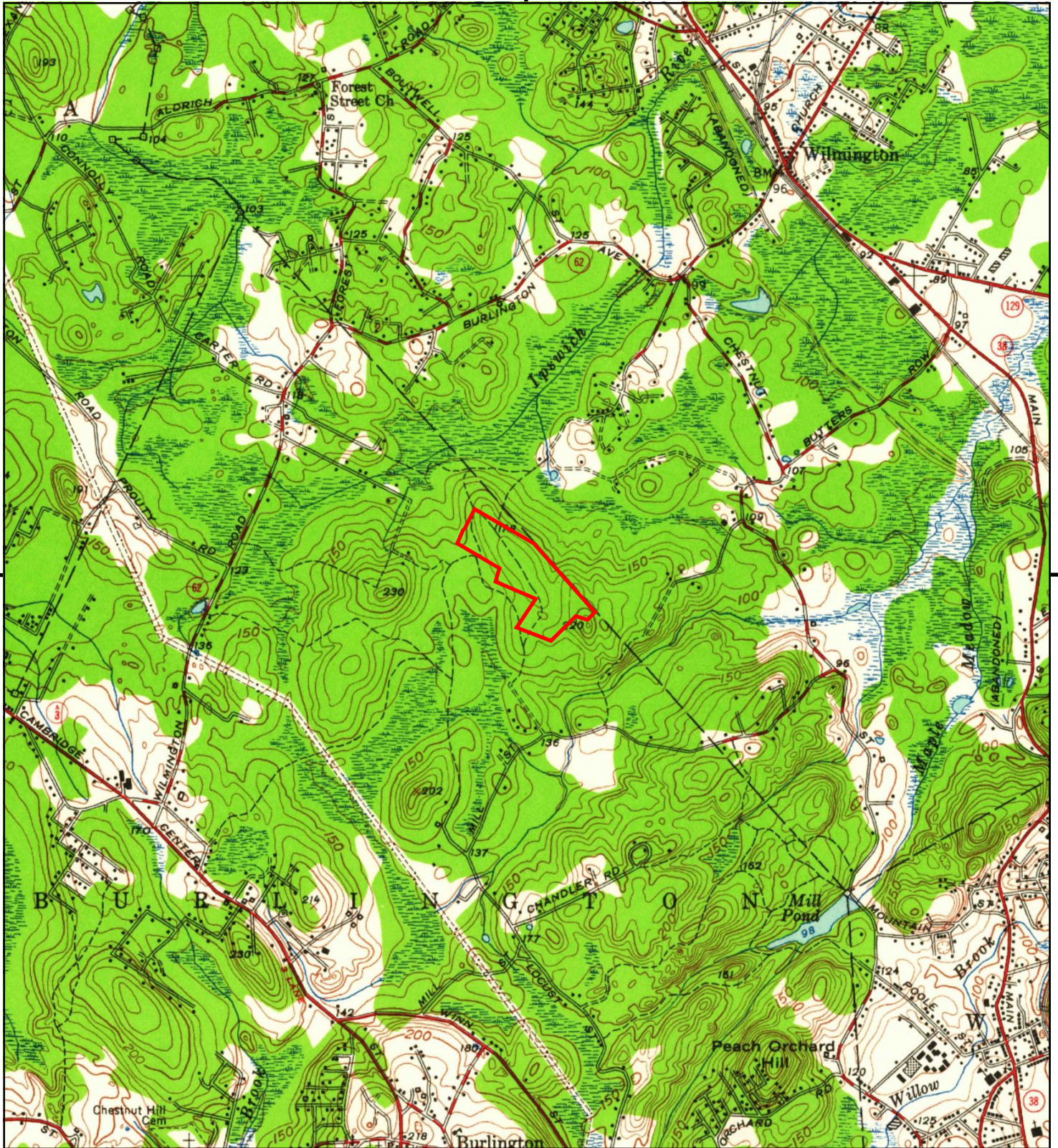


TP, Wilmington, 1965, 7.5-minute

**SITE NAME:** Fox Hill Elementary School  
**ADDRESS:** 252 Fox Hill Road  
 Burlington, MA 01803  
**CLIENT:** ECMS, Inc.







This report includes information from the following map sheet(s).

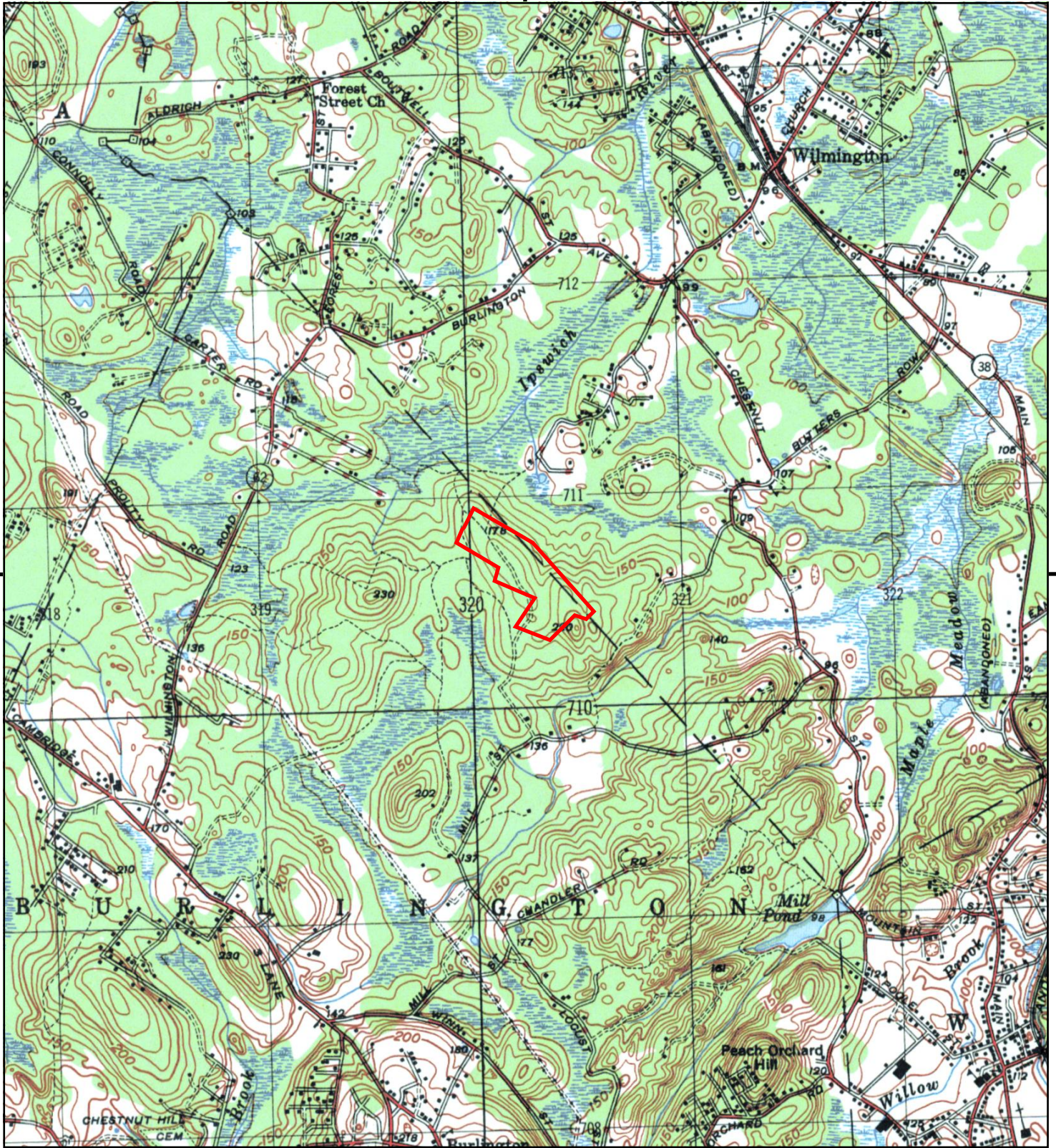


TP, Wilmington, 1950, 7.5-minute

**SITE NAME:** Fox Hill Elementary School  
**ADDRESS:** 252 Fox Hill Road  
 Burlington, MA 01803  
**CLIENT:** ECMS, Inc.







This report includes information from the following map sheet(s).

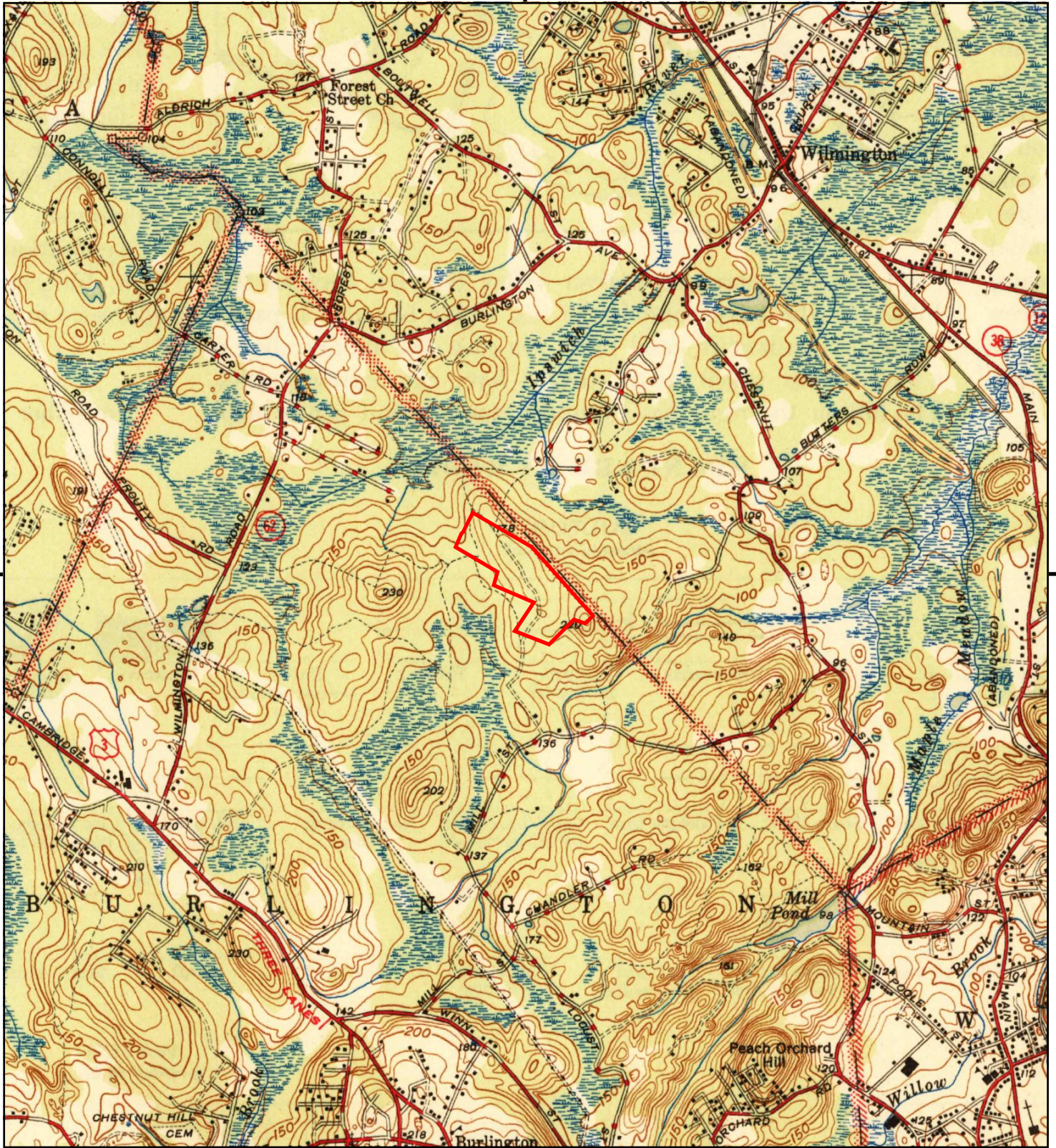


TP, WILMINGTON, 1947, 7.5-minute

SITE NAME: Fox Hill Elementary School  
 ADDRESS: 252 Fox Hill Road  
 Burlington, MA 01803  
 CLIENT: ECMS, Inc.







This report includes information from the following map sheet(s).

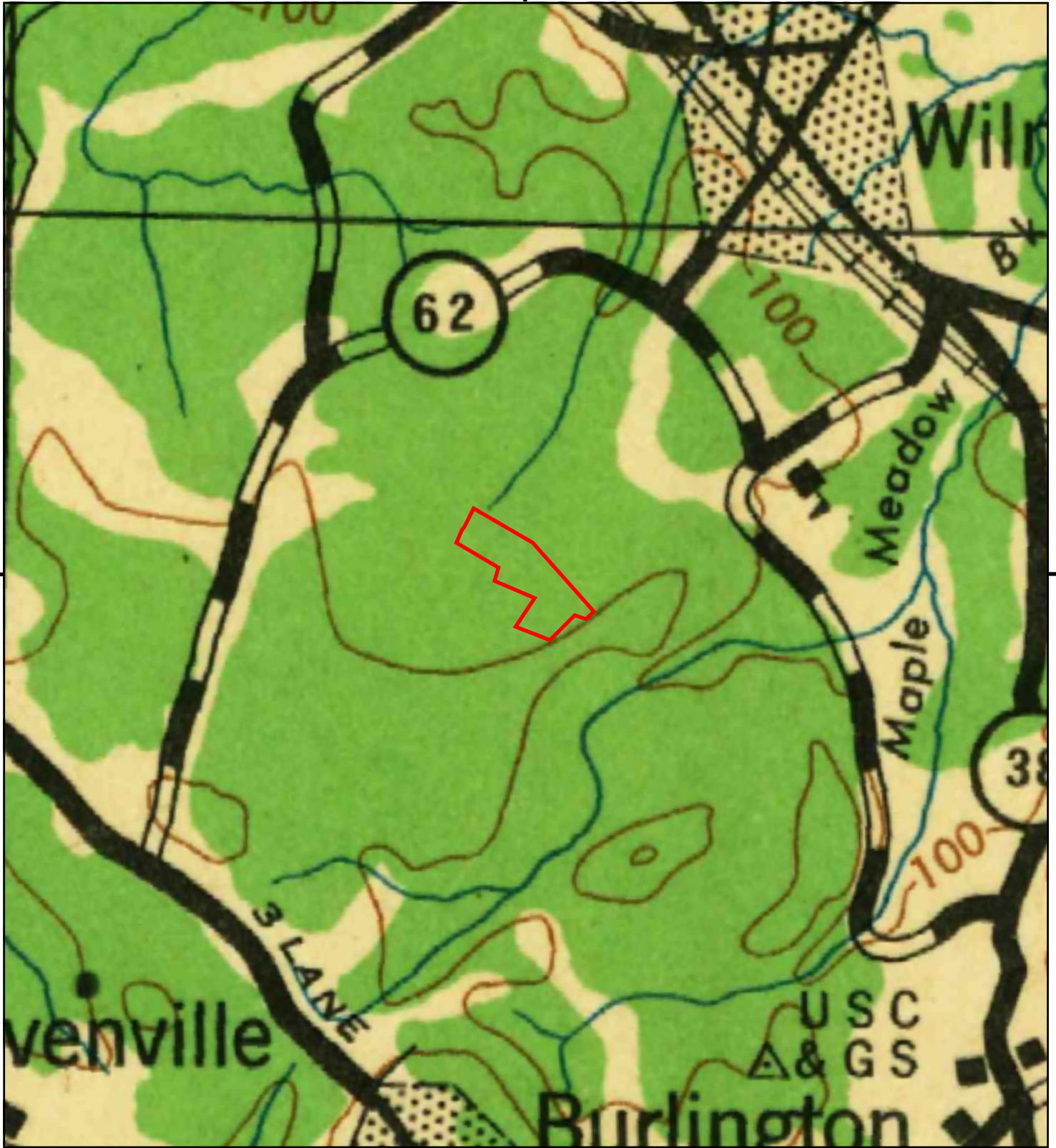


TP, Wilmington, 1944, 7.5-minute

SITE NAME: Fox Hill Elementary School  
 ADDRESS: 252 Fox Hill Road  
 Burlington, MA 01803  
 CLIENT: ECMS, Inc.







This report includes information from the following map sheet(s).

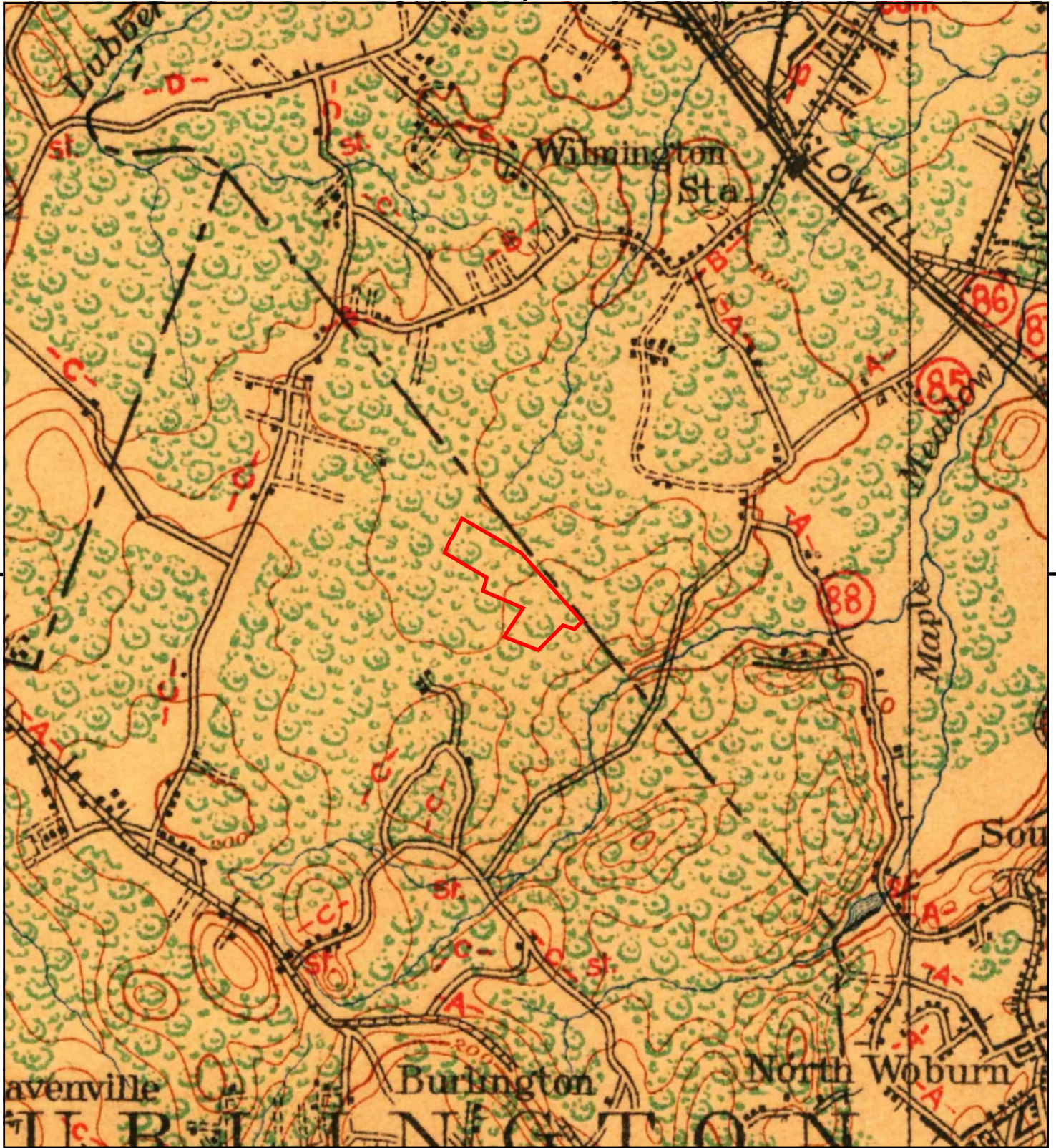


TP, Lowell, 1943, 30-minute

SITE NAME: Fox Hill Elementary School  
ADDRESS: 252 Fox Hill Road  
Burlington, MA 01803  
CLIENT: ECMS, Inc.







This report includes information from the following map sheet(s).

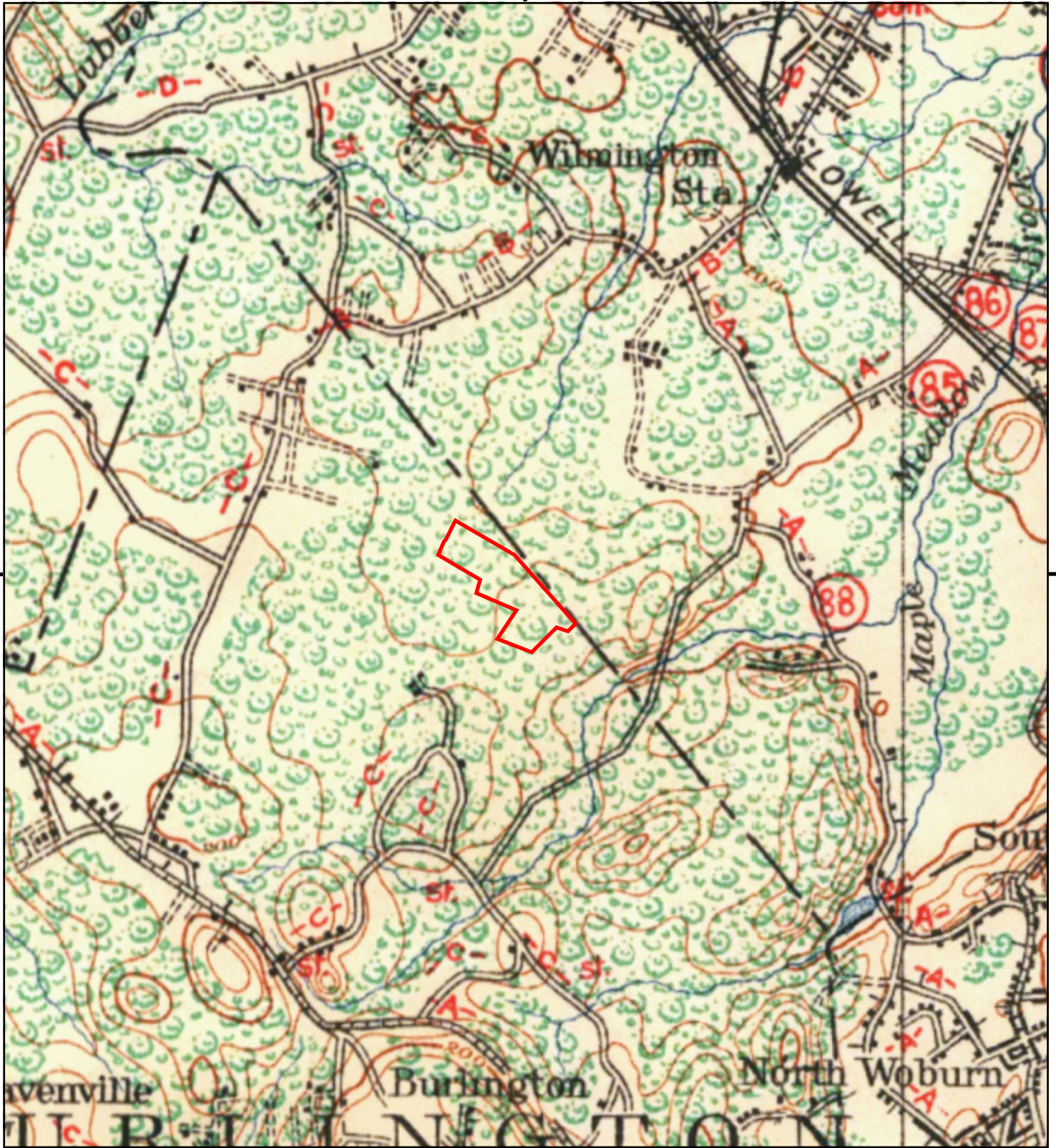


TP, Lawrence, 1918, 15-minute

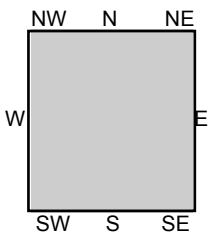
SITE NAME: Fox Hill Elementary School  
 ADDRESS: 252 Fox Hill Road  
 Burlington, MA 01803  
 CLIENT: ECMS, Inc.







This report includes information from the following map sheet(s).

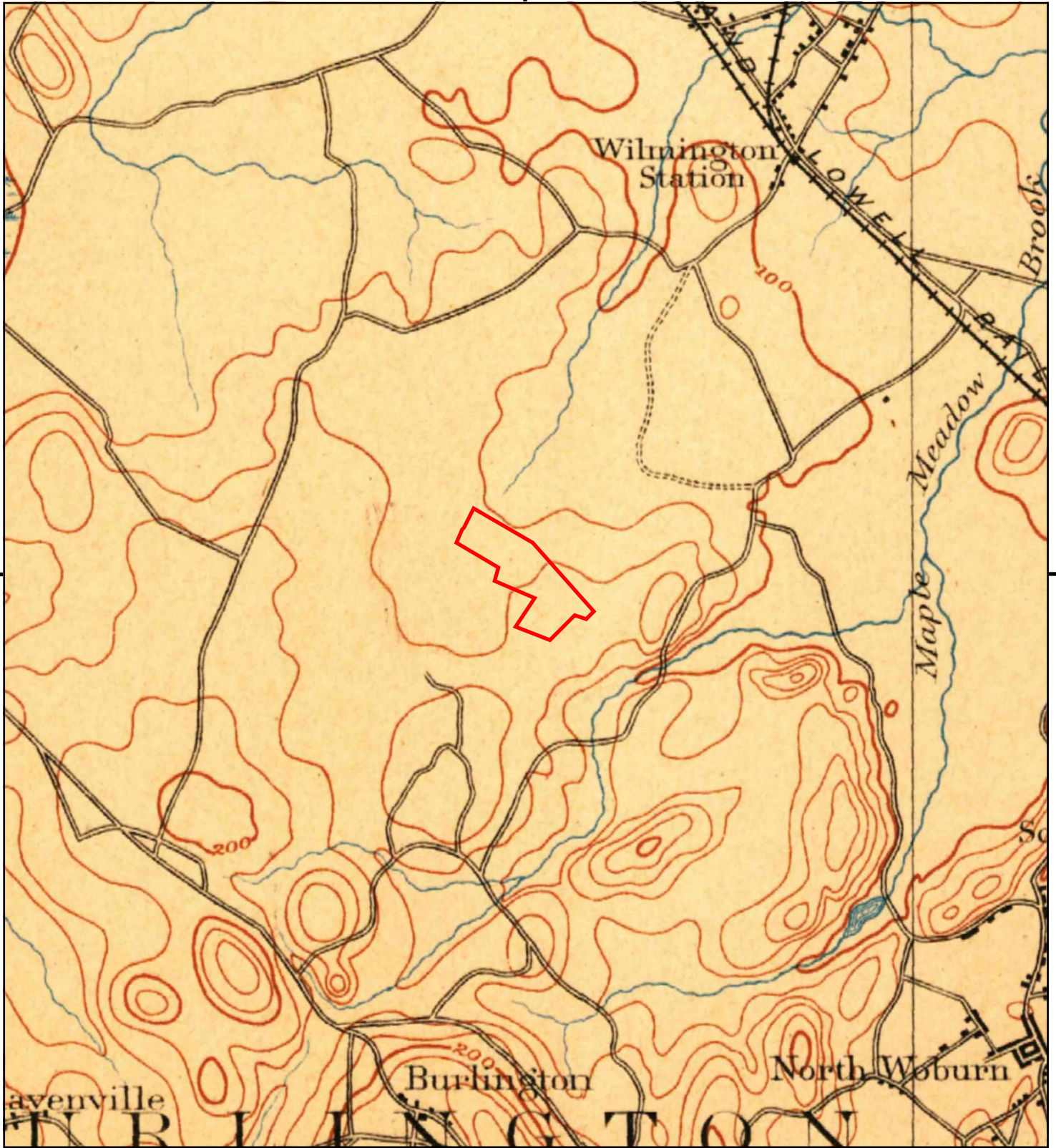


TP, LAWRENCE, 1915, 15-minute

SITE NAME: Fox Hill Elementary School  
 ADDRESS: 252 Fox Hill Road  
 Burlington, MA 01803  
 CLIENT: ECMS, Inc.







This report includes information from the following map sheet(s).

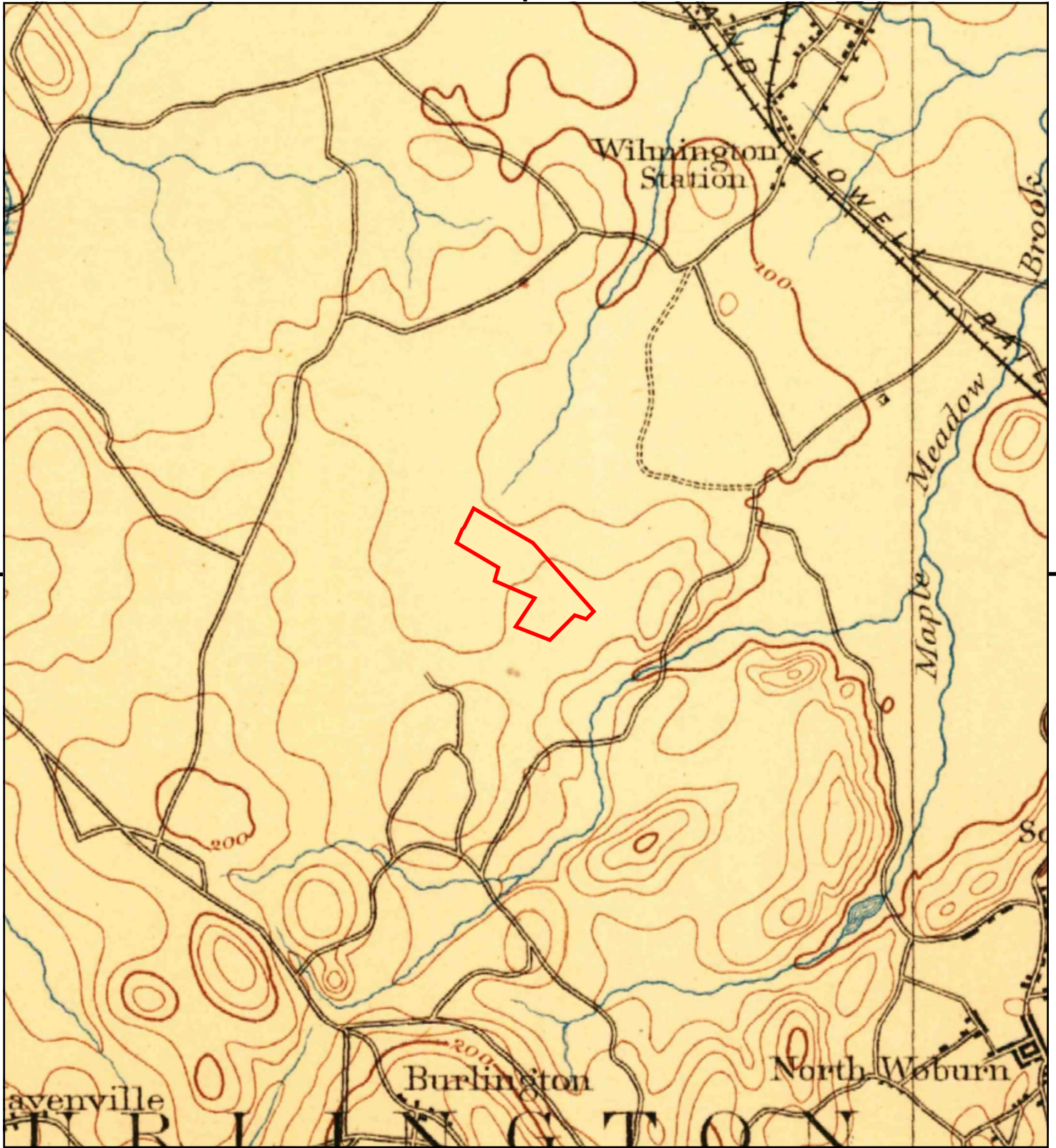


TP, Lawrence, 1893, 15-minute

SITE NAME: Fox Hill Elementary School  
 ADDRESS: 252 Fox Hill Road  
 Burlington, MA 01803  
 CLIENT: ECMS, Inc.







This report includes information from the following map sheet(s).



TP, Lawrence, 1888, 15-minute

SITE NAME: Fox Hill Elementary School  
 ADDRESS: 252 Fox Hill Road  
 Burlington, MA 01803  
 CLIENT: ECMS, Inc.





**Fox Hill Elementary School**

252 Fox Hill Road

Burlington, MA 01803

Inquiry Number: 7295798.8

March 31, 2023

# The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# EDR Aerial Photo Decade Package

03/31/23

**Site Name:**

Fox Hill Elementary School  
252 Fox Hill Road  
Burlington, MA 01803  
EDR Inquiry # 7295798.8

**Client Name:**

ECMS, Inc.  
288 Grove Street #391  
Braintree, MA 02184  
Contact: Cheryl Cambria



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**Search Results:**

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2018	1"=500'	Flight Year: 2018	USDA/NAIP
2014	1"=500'	Flight Year: 2014	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
1995	1"=500'	Acquisition Date: March 29, 1995	USGS/DOQQ
1986	1"=500'	Flight Date: March 30, 1986	USDA
1980	1"=500'	Flight Date: September 19, 1980	USDA
1978	1"=500'	Flight Date: April 23, 1978	USGS
1965	1"=500'	Flight Date: April 06, 1965	USGS
1963	1"=500'	Flight Date: April 27, 1963	USGS
1938	1"=500'	Flight Date: December 21, 1938	USGS

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INQUIRY #: 7295798.8

YEAR: 2018

— = 500'







INQUIRY #: 7295798.8

YEAR: 2014

— = 500'







INQUIRY #: 7295798.8

YEAR: 2010

 = 500'







INQUIRY #: 7295798.8

YEAR: 1995

— = 500'







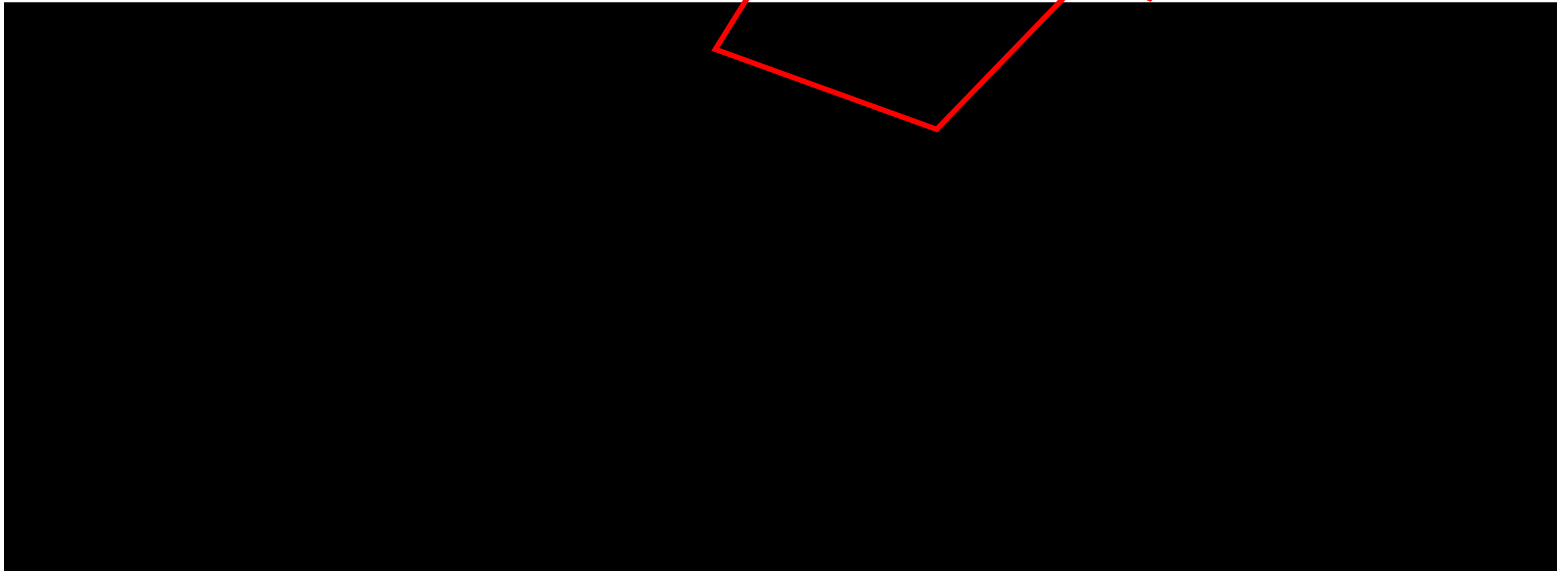
INQUIRY #: 7295798.8

YEAR: 1986

 = 500'









INQUIRY #: 7295798.8

YEAR: 1978

 = 500'







INQUIRY #: 7295798.8

YEAR: 1965

 = 500'







INQUIRY #: 7295798.8

YEAR: 1963

— = 500'







INQUIRY #: 7295798.8

YEAR: 1938

— = 500'





## **APPENDIX B**

### **QUALIFICATIONS/LIMITATIONS**

## QUALIFICATIONS/LIMITATIONS

*Environmental & Construction Management Services, Inc. (ECMS)* professional services have been performed, our findings obtained, and our recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. This warranty is in lieu of all other warranties either expressed or implied. *ECMS* is not responsible for the independent conclusions, opinions or recommendations made by others based on the records review, site inspection, field exploration, and laboratory test data presented in this report.

Factual information regarding on-site business operations, conditions, and historical data provided to *ECMS* is assumed to be correct and complete. *ECMS* assumes no responsibility for hidden or latent conditions or misrepresentation by the property owner, its representatives, public information officials or any authority consulted in connection with the compilation of this report.

The findings set forth in the attached Site assessment report are strictly limited in time and scope to the date of the evaluation(s). The conclusions presented in the Report are based solely on the services described therein, and not on scientific tasks or procedures beyond the scope of agreed upon services or the time and budgeting restraints imposed by the client.

The purpose of this report was to assess the physical characteristics of the subject Site with respect to the presence in the environment of hazardous material or oil. No specific attempt was made to check on the compliance of present or past owners or operators or of the Site with Federal, State or local laws and regulations, environmental, or otherwise.

Partial findings of this investigation are based on data provided by others. No warranty is expressed or implied with the usage of such data. Much of the information provided in this report is based upon personal interviews and research of all available documents, records and maps held by the appropriate government and private agencies. This is subject to the limitations of historical documentation, availability and accuracy of pertinent records, and the personal recollection of those persons contacted by *ECMS* personnel. *ECMS* is not a professional title insurance firm and makes no guarantee, explicit or implied that the listing, which was reviewed, represented a comprehensive delineation of past Site ownership or tenancy for legal purposes.

Observations were made of the Site and of structures on the Site as indicated within the Report. Where access to portions of the Site or to structures on the Site was unavailable or limited, *ECMS* is unable to render an opinion as to the presence of hazardous material or oil, or to the presence if indirect evidence relating to hazardous material or oil, in that portion of the Site or structure. In addition, *ECMS* renders no opinion as to the presence of hazardous material or oil, where direct observation of the interior walls, floor, or ceiling of a structure on a Site was obstructed by objects or coverings on or over these surfaces.

The initial site investigation took into account the natural and man-made features of the Site, including any unusual or suspect phenomenon. These factors combined with the Site's geology, hydrology, topography, and past and present land uses served as a basis for choosing a methodology and location for subsurface exploration as well as ground water and subsurface sampling, if done. The subsurface data, if provided, is meant as a representative overview of the Site.

The conclusions and recommendations contained in this report may be based in part upon various types of chemical data and are contingent upon their validity. As indicated within the Report, some



of these data are preliminary "screening" level data, and should be confirmed with quantitative analyses if more specific information is necessary. It should be noted that variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time, and other factors. Should additional data or variations of current data become available in the future, these data should be reviewed, and the conclusions and recommendations presented herein modified accordingly.

Chemical analyses may have been performed for specific parameters during the course of this Site assessment, as described in the text. However, it should be noted that additional chemical constituents not searched for during the current study might be present in soil and/or ground water at the Site.



## APPENDIX C

### QUALIFICATIONS OF THE ENVIRONMENTAL PROFESSIONALS

**CHERYL A. CAMBRIA**  
*Senior Environmental Geologist*

Cheryl has over 25 years of environmental site assessment experience. Responsibilities have included a wide variety of activities involving proposal generation, historical research, site visits, soil boring and monitoring well installation, soil screening and sampling, groundwater sampling, analysis of laboratory analytical results, and all aspects of report writing.

Cheryl served as staff environmental scientist for several New England environmental consulting firms including Hygienetics Environmental Services and Rizzo Associates, Inc.

Some highlights of Cheryl's experience include:

- Performed numerous environmental site assessments throughout New England, New York, New Jersey, Kentucky, Utah and Indiana. Properties investigated have included residential properties, office buildings, gasoline filling stations, chemical companies, and manufacturing facilities.
- Provided field support for large projects including the Massachusetts Turnpike Authority facilities throughout Massachusetts and the Central Artery Project in Charlestown, Massachusetts. Responsibilities included groundwater sampling and soil screening.
- Performed project managing of a quarterly sampling event at General Electric Silicone Products Division in Waterford, New York. Duties included project monitoring and organization, depths to groundwater measurements and the generation of groundwater contour maps, groundwater sampling, and analysis of laboratory results.
- Performed a soil vapor survey in a landfill at General Electric Silicone Products Division in Waterford, New York as part of an effort to determine health and safety measures for personnel conducting sampling activities at this landfill.
- Provided support for a hazardous materials survey as part of a Material Safety Data Sheet program at United States Postal Service facilities.

**Technical Specialties:**

Phase I & II Environmental Site Assessments

Detailed Historical Research Investigations

**Education:**

B.S., Geology and Natural Sciences, Castleton State College, 1988

**KEVIN J. KAVANAUGH, L.S.P., CHMM**  
*Principal Environmental Engineer*

Kevin has 37 years of engineering/hydrogeological consulting, environmental site assessment and site remediation experience. In addition to his fiscal and marketing duties as a Principal Environmental Engineer and Chief Executive Officer (CEO) at *Environmental & Construction Management Services, Inc. (ECMS)* for the last 20 years, he oversees the environmental staff, coordinates business and professional development of staff, provides technical QA/QC, and offers specialized corporate technical support in accordance with state and federal regulatory agencies.

Prior to co-founding *ECMS*, Kevin was the National Accounts Director for Hygienetics Environmental Services, Inc. (Hygienetics) in Boston, Massachusetts. As the National Account Director he managed the nationwide environmental due diligence and consulting services for Hygienetics National Accounts including GE Capital Real Estate, Archon Group LP, Finova Realty Capital, American General Realty Advisors, Metropolitan Life Insurance and State Teachers Retirement System of Ohio for all of Hygienetics 14 Offices throughout the Continental United States.

Kevin is a Massachusetts Licensed Site Professional (LSP) since May 1994 and Certified Hazardous Materials Manager (CHMM) since 1998 with extensive experience with preparation and submission of every aspect of the Massachusetts Contingency Plan (MCP) 310 CMR 40.0000 including; Phase I through Phase V reports, Downgradient Property Status (DPS), Activity and Use Limitations (AULs), Method 1 and 3 Risk Characterizations, Class A, B and C Response Action Outcome (RAO) and Permanent Solutions, Numerical Site Ranking, Immediate Response Action (IRA) Plans and Release Abatement Measure (RAM) Plans, status and completion reports, Tier I Permit Applications, Major Permit Modifications and vapor intrusion assessments. He also provided LSP technical report review and provided cost estimates for various lending institutions, insurance companies, law offices and other property acquisition/development corporations. In addition to his extensive experience in Massachusetts, he has personally performed either environmental site assessments and/or site remediation in New Hampshire, Georgia, Rhode Island, New Jersey, Texas, Kansas, California, Florida, Michigan and Pennsylvania.

Prior to joining Hygienetics in 1996, Kevin worked as a Site Operation's Manager/Senior Environmental Engineer responsible for all technical and business activities for a 13-person branch office for Groundwater & Environmental Services, Inc. (a full-service environmental consulting/remediation firm).

Some of his accomplishments include:

***Technical Specialties:***

Phase I and II Environmental Site Assessments

Soil and Groundwater Investigations

Risk-Based Closure Assessments

UST Management/Closure

Soil and Groundwater Remediation

***Education:***

B.S., Civil Engineering, University of Maine at Orono, 1985

***Certifications:***

Massachusetts Licensed Site Professional (LSP) License No. 7610

Certified Hazardous Materials Manager (CHMM) License No. 9287

OSHA Standard 29 CFR 1920 and SARA Section 126(d) (HAZWOPER)

***Professional Affiliations:***

Massachusetts Licensed Site Professionals Association (LSPA)



**KEVIN J. KAVANAUGH, L.S.P., CHMM**  
*Principal Environmental Engineer*

- National Account Director as the primary contact for the Hygienetics National Account's Program. A partial client list includes: GE Capital Real Estate, Archon Group LP, Finova Realty Capital, American General Realty Advisors, Storage USA, Metropolitan Life Insurance and State Teachers Retirement System of Ohio.
- Performed and/or supervised the performance of over 2,000 due diligence environmental assessment reports throughout the country. A partial list of local and nationwide client includes: Princeton Properties Management, Jones Lang LaSalle, John Hancock, Trammell Crow Company, Starwood Lodging, Equitable Real Estate, Northwestern Mutual Life Insurance, Insignia/ESG, Cornerstone Properties, Equity Office Properties, Prudential Real Estate and Marriott/Claris Corporation.
- Supervised a technical staff of 13 and was New England Regional Account Manager for a \$1 million/year major oil corporation client.
- Designed or redesigned and directed the installation of over 50 remedial treatment systems including dual phase extraction (high vacuum extraction), soil vacuum extraction, air sparging and product/groundwater recovery and treatment.
- Developed New England regional LSP risk-based closure program for existing client base.
- Performed all phases of environmental project development and management including: groundwater modeling, hydrogeologic studies, physical and chemical interpretation of field data, preparation and review of initial and complex site assessments, and remedial action reports in accordance with MGL21E, MCP, RCRA and other regulations.
- Performed other technical activities including a variety of pilot tests (aquifer, hydraulic conductivity, vacuum extraction and air sparging), the preparing of Wetlands Notice of Intents, air and groundwater discharge permitting and supervision of UST removals/closures.
- Directed the operation and maintenance of over 125 active soil and groundwater organic contamination recovery and treatment systems. Remedial treatment systems included soil vacuum extraction, air sparging, UV peroxidation, hydrogen peroxide Injection and product/groundwater recovery and treatment.
- Completed over 300 MCP Method 1, Method 2 and Method 3 Risk Characterizations and Class A, B and C Response Action Outcomes (RAOs)/Permanent Solutions (regulatory site closures).
- Managed and completed a 40 property real estate due diligence Phase I ESA nationwide portfolio for a large National Account Real Estate Client in an expedited timeframe.

***Technical Specialties:***

Phase I and II Environmental Site Assessments

Soil and Groundwater Investigations

Risk-Based Closure Assessments

UST Management/Closure

Soil and Groundwater Remediation

***Education:***

B.S., Civil Engineering, University of Maine at Orono, 1985

***Certifications:***

Massachusetts Licensed Site Professional (LSP) License No. 7610

Certified Hazardous Materials Manager (CHMM) License No. 9287

OSHA Standard 29 CFR 1920 and SARA Section 126(d) (HAZWOPER)

***Professional Affiliations:***

Massachusetts Licensed Site Professionals Association (LSPA)



*The Commonwealth of Massachusetts*

**BOARD OF REGISTRATION OF  
HAZARDOUS WASTE SITE CLEANUP PROFESSIONALS**

*This is to Certify That*

**Kevin J Kavanaugh**

*has been duly registered by this Board as a qualified Licensed Site Professional,  
as provided by the laws of the Commonwealth.*



*Boston, Massachusetts*      August 14, 2020

/s/ Millie Garcia-Serrano

*Chairperson of the Board*

7610      July 30, 2023

*License Number      Expiration Date*

## APPENDIX D

### ASSESSOR PROPERTY RECORD CARDS



# Unofficial Property Record Card - Burlington, MA

## General Property Data

Parcel ID <b>9-47-0</b> Prior Parcel ID <b>000009 --</b> Property Owner <b>TOWN OF BURLINGTON</b> <b>FOX HILL SCHOOL</b> Mailing Address <b>29 CENTER ST</b>  City <b>BURLINGTON</b> Mailing State <b>MA</b> Zip <b>01803</b> ParcelZoning <b>RO</b>	Account Number <b>0</b>  Property Location <b>252 FOX HILL RD</b> Property Use <b>Improved, Ed</b> Most Recent Sale Date <b>1/1/1955</b> Legal Reference <b>10963-296</b> Grantor Sale Price <b>0</b> Land Area <b>37.900 acres</b>
--	---

## Current Property Assessment

Card 1 Value	Building Value <b>8,237,200</b>	Xtra Features Value <b>49,100</b>	Land Value <b>2,810,900</b>	Total Value <b>11,097,200</b>
Total Parcel Value	Building Value <b>9,220,100</b>	Xtra Features Value <b>49,100</b>	Land Value <b>2,810,900</b>	Total Value <b>12,080,100</b>

## Building Description

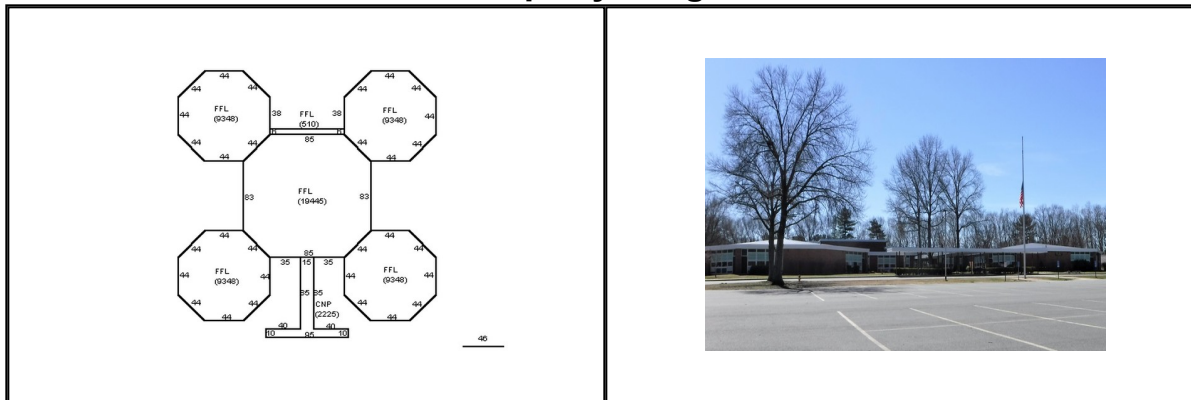
Building Style <b>School</b> # of Living Units <b>1</b> Year Built <b>1960</b> Building Grade <b>Good</b> Building Condition <b>Good</b> Finished Area (SF) <b>57347</b> Number Rooms <b>0</b> # of 3/4 Baths <b>0</b>	Foundation Type <b>Slab</b> Frame Type <b>Concrete</b> Roof Structure <b>Hip</b> Roof Cover <b>Membrane</b> Siding <b>Brick Veneer</b> Interior Walls <b>Minimal</b> # of Bedrooms <b>0</b> # of 1/2 Baths <b>0</b>	Flooring Type <b>Asphalt Tile</b> Basement Floor <b>N/A</b> Heating Type <b>Steam</b> Heating Fuel <b>Gas</b> Air Conditioning <b>0%</b> # of Bsmt Garages <b>0</b> # of Full Baths <b>0</b> # of Other Fixtures <b>86</b>
---	--	---

## Legal Description

## Narrative Description of Property

This property contains 37.900 acres of land mainly classified as Improved, Ed with a(n) School style building, built about 1960 , having Brick Veneer exterior and Membrane roof cover, with 1 unit(s), 0 room(s), 0 bedroom(s), 0 bath(s), 0 half bath(s).

## Property Images



Disclaimer: This information is believed to be correct but is subject to change and is not warranted.

# Unofficial Property Record Card - Burlington, MA

## General Property Data

Parcel ID <b>9-47-0</b>	Account Number <b>0</b>
Prior Parcel ID <b>000009 --</b>	Property Location <b>252 FOX HILL RD</b>
Property Owner <b>TOWN OF BURLINGTON</b> <b>FOX HILL SCHOOL</b>	Property Use <b>Improved, Ed</b>
Mailing Address <b>29 CENTER ST</b>	Most Recent Sale Date <b>1/1/1955</b>
City <b>BURLINGTON</b>	Legal Reference <b>10963-296</b>
Mailing State <b>MA</b> Zip <b>01803</b>	Grantor
ParcelZoning <b>RO</b>	Sale Price <b>0</b>
	Land Area <b>0.000 acres</b>

## Current Property Assessment

Card 2 Value	Building Value <b>982,900</b>	Xtra Features Value <b>0</b>	Land Value <b>0</b>	Total Value <b>982,900</b>
Total Parcel Value	Building Value <b>9,220,100</b>	Xtra Features Value <b>49,100</b>	Land Value <b>2,810,900</b>	Total Value <b>12,080,100</b>

## Building Description

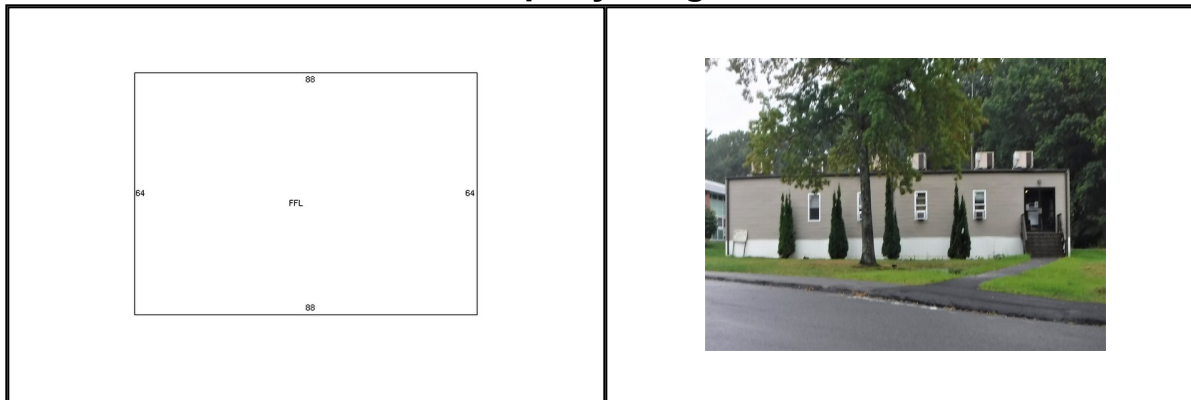
Building Style <b>School</b>	Foundation Type <b>Piers</b>	Flooring Type <b>Carpet</b>
# of Living Units <b>1</b>	Frame Type <b>Wood</b>	Basement Floor <b>N/A</b>
Year Built <b>2006</b>	Roof Structure <b>Flat</b>	Heating Type <b>Elec Base/B</b>
Building Grade <b>Average. (-)</b>	Roof Cover <b>Membrane</b>	Heating Fuel <b>Electric</b>
Building Condition <b>N/A</b>	Siding <b>Vinyl</b>	Air Conditioning <b>100%</b>
Finished Area (SF) <b>5632</b>	Interior Walls <b>Drywall</b>	# of Bsmt Garages <b>0</b>
Number Rooms <b>0</b>	# of Bedrooms <b>0</b>	# of Full Baths <b>0</b>
# of 3/4 Baths <b>0</b>	# of 1/2 Baths <b>0</b>	# of Other Fixtures <b>0</b>

## Legal Description

## Narrative Description of Property

This property contains 0.000 acres of land mainly classified as Improved, Ed with a(n) School style building, built about 2006 , having Vinyl exterior and Membrane roof cover, with 1 unit(s), 0 room(s), 0 bedroom(s), 0 bath(s), 0 half bath(s).

## Property Images



Disclaimer: This information is believed to be correct but is subject to change and is not warranted.

**APPENDIX E**

**SITE PHOTOGRAPHS**



**Fox Hill Elementary School, 252 Fox Hill Road, Burlington, Massachusetts**

Photo 1 – View of north side of Site building.



Photo 2 – View of west side of Site building.





**Fox Hill Elementary School, 252 Fox Hill Road, Burlington, Massachusetts**

Photo 3 – View of south side of Site building.



Photo 4 – View of east side of Site building, playground and athletic field.





**Fox Hill Elementary School, 252 Fox Hill Road, Burlington, Massachusetts**

Photo 5 – View of wooded area in southeastern portion of Site.



Photo 6 – View of pad-mounted transformer.





**Fox Hill Elementary School, 252 Fox Hill Road, Burlington, Massachusetts**

Photo 7 – View of modular addition at west side of Site building.



Photo 8 – View of entrance and lobby.



**Fox Hill Elementary School, 252 Fox Hill Road, Burlington, Massachusetts**

Photo 9 – View of typical hallway.

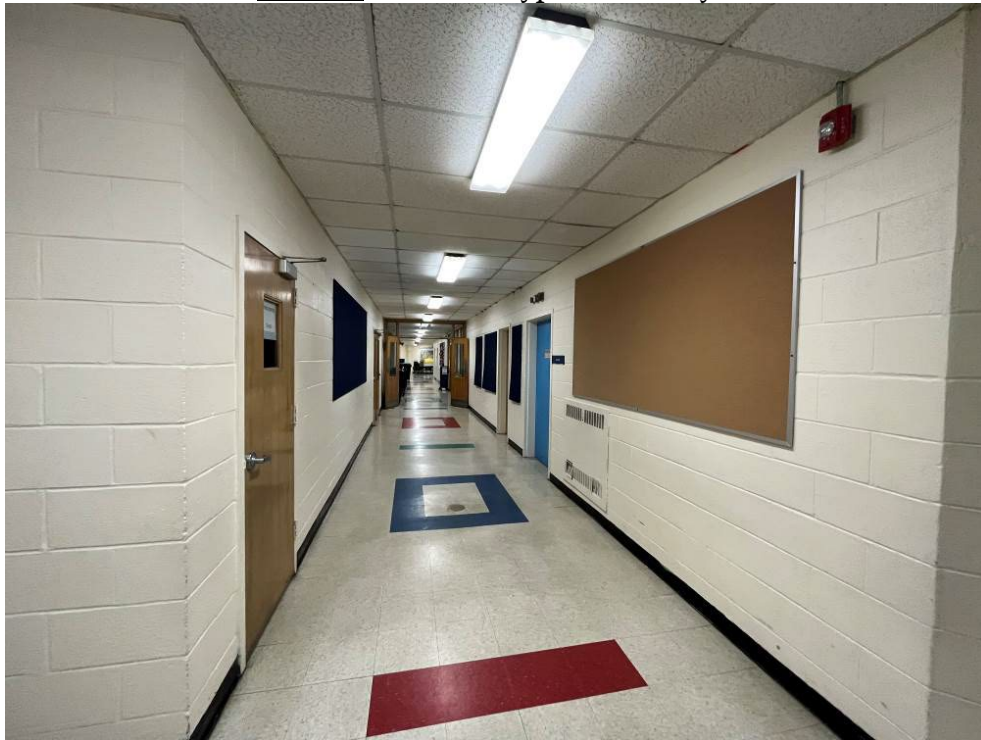


Photo 10 – View of typical classroom.





**Fox Hill Elementary School, 252 Fox Hill Road, Burlington, Massachusetts**

Photo 11 – View of natural gas-fired emergency generator.



Photo 12 – View of teachers lounge.





**Fox Hill Elementary School, 252 Fox Hill Road, Burlington, Massachusetts**

Photo 13 – View of kitchen area.



Photo 14 – View of grease trap location in kitchen.



**Fox Hill Elementary School, 252 Fox Hill Road, Burlington, Massachusetts**

Photo 15 – View of cleaning supply storage.



Photo 16 – View of boilers.





**Fox Hill Elementary School, 252 Fox Hill Road, Burlington, Massachusetts**

Photo 17 – View of hot water heater and ACM labeled pipes.



Photo 18 – View of west adjacent residential properties.





**Fox Hill Elementary School, 252 Fox Hill Road, Burlington, Massachusetts**

Photo 19 – View of north adjacent residential properties.



Photo 20 – View of north adjacent residential properties.



**APPENDIX F**

**ENVIRONMENTAL DATA RESOURCES, INC. (EDR) RADIUS MAP REPORT WITH  
GEOCHECK DATED MARCH 31, 2023**

**Fox Hill Elementary School**

252 Fox Hill Road

Burlington, MA 01803

Inquiry Number: 7295798.2s

March 31, 2023

# The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)



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

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

252 FOX HILL ROAD  
BURLINGTON, MA 01803

#### COORDINATES

Latitude (North): 42.5290520 - 42° 31' 44.58"  
Longitude (West): 71.1884610 - 71° 11' 18.45"  
Universal Transverse Mercator: Zone 19  
UTM X (Meters): 320257.0  
UTM Y (Meters): 4710625.5  
Elevation: 173 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 11762185 WILMINGTON, MA  
Version Date: 2018

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20140712  
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:  
 252 FOX HILL ROAD  
 BURLINGTON, MA 01803

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">A1</a>	FOX HILL ELEMENTARY	FOX HILL RD.	MA ASBESTOS		TP
<a href="#">A2</a>	FOX HILL SCHOOL	250 FOX HILL ROAD	MA ASBESTOS		TP
<a href="#">A3</a>	FOX HILL SCHOOL	250 FOX HILL ROAD	MA ASBESTOS		TP
<a href="#">A4</a>	FOX HILL SCHOOL	250 FOX HILL ROAD	MA ASBESTOS		TP
<a href="#">Reg</a>	OLIN CHEMICAL	51 EAMES ST	NPL, SEMS, MA SHWS, MA SWF/LF, MA BROWNFIELDS, MA.	Same	3108, 0.589, East
<a href="#">5</a>	NO LOCATION AID	25 ROCKY HILL RD	MA SHWS, MA RELEASE	Lower	2098, 0.397, SW
<a href="#">6</a>	RESIDENCE	120 WILMINGTON ROAD	MA SHWS, MA LUST, MA RELEASE, MA ASBESTOS, MA ENF	Lower	3270, 0.619, WNW
<a href="#">7</a>	NO LOCATION AID	96 CHESTNUT ST	MA SHWS, MA RELEASE	Lower	3907, 0.740, ENE
<a href="#">8</a>	SCHILL RESIDENCE	15 CUTTING LANE	MA SHWS, MA RELEASE	Lower	4204, 0.796, WSW
<a href="#">9</a>	WILMINGTON GEO RES A		FUDS	Lower	4253, 0.805, NE
<a href="#">B10</a>	RESIDENTIAL PROPERTY	19 SKILTON LN	MA SHWS, MA LUST, MA RELEASE, MA ENF	Lower	4868, 0.922, SSW
<a href="#">11</a>	CORNER OF CLINTON AN	2 CLINTON ST	MA SHWS, MA RELEASE	Lower	4992, 0.945, NNW
<a href="#">B12</a>	NO LOCATION AID	4 BROOKFIELD RD	MA SHWS, MA RELEASE	Lower	5072, 0.961, SSW



# EXECUTIVE SUMMARY

## **TARGET PROPERTY SEARCH RESULTS**

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

<u>Site</u>	<u>Database(s)</u>	<u>EPA ID</u>
FOX HILL ELEMENTARY FOX HILL RD. BURLINGTON, MA	MA ASBESTOS	N/A
FOX HILL SCHOOL 250 FOX HILL ROAD BURLINGTON, MA	MA ASBESTOS	N/A
FOX HILL SCHOOL 250 FOX HILL ROAD BURLINGTON, MA	MA ASBESTOS	N/A
FOX HILL SCHOOL 250 FOX HILL ROAD BURLINGTON, MA 01803	MA ASBESTOS	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:

## **STANDARD ENVIRONMENTAL RECORDS**

### ***Lists of Federal NPL (Superfund) sites***

Proposed NPL..... Proposed National Priority List Sites  
NPL LIENS..... Federal Superfund Liens

### ***Lists of Federal Delisted NPL sites***

Delisted NPL..... National Priority List Deletions

### ***Lists of Federal sites subject to CERCLA removals and CERCLA orders***

FEDERAL FACILITY..... Federal Facility Site Information listing

### ***Lists of Federal CERCLA sites with NFRAP***

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

## EXECUTIVE SUMMARY

### ***Lists of Federal RCRA facilities undergoing Corrective Action***

CORRACTS..... Corrective Action Report

### ***Lists of Federal RCRA TSD facilities***

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

### ***Lists of Federal RCRA generators***

RCRA-LQG..... RCRA - Large Quantity Generators

RCRA-SQG..... RCRA - Small Quantity Generators

RCRA-VSQG..... RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

### ***Federal institutional controls / engineering controls registries***

LUCIS..... Land Use Control Information System

US ENG CONTROLS..... Engineering Controls Sites List

US INST CONTROLS..... Institutional Controls Sites List

### ***Federal ERNS list***

ERNS..... Emergency Response Notification System

### ***Lists of state and tribal leaking storage tanks***

MA LAST..... Leaking Aboveground Storage Tank Sites

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

### ***Lists of state and tribal registered storage tanks***

FEMA UST..... Underground Storage Tank Listing

MA UST..... Summary Listing of all the Tanks Registered in the State of Massachusetts

MA AST..... Aboveground Storage Tank Database

INDIAN UST..... Underground Storage Tanks on Indian Land

### ***State and tribal institutional control / engineering control registries***

MA INST CONTROL..... Sites With Activity and Use Limitation

### ***Lists of state and tribal voluntary cleanup sites***

INDIAN VCP..... Voluntary Cleanup Priority Listing

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### ***Local Brownfield lists***

US BROWNFIELDS..... A Listing of Brownfields Sites

#### ***Local Lists of Landfill / Solid Waste Disposal Sites***

INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

## EXECUTIVE SUMMARY

ODI..... Open Dump Inventory  
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations  
IHS OPEN DUMPS..... Open Dumps on Indian Land

### **Local Lists of Hazardous waste / Contaminated Sites**

US HIST CDL..... Delisted National Clandestine Laboratory Register  
US CDL..... National Clandestine Laboratory Register

### **Local Land Records**

MA LIENS..... Liens Information Listing  
LIENS 2..... CERCLA Lien Information

### **Records of Emergency Release Reports**

HMIRS..... Hazardous Materials Information Reporting System  
MA SPILLS 90..... SPILLS 90 data from FirstSearch  
MA SPILLS 80..... SPILLS 80 data from FirstSearch

### **Other Ascertainable Records**

RCRA NonGen / NLR..... RCRA - Non Generators / No Longer Regulated  
DOD..... Department of Defense Sites  
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing  
US FIN ASSUR..... Financial Assurance Information  
EPA WATCH LIST..... EPA WATCH LIST  
2020 COR ACTION..... 2020 Corrective Action Program List  
TSCA..... Toxic Substances Control Act  
TRIS..... Toxic Chemical Release Inventory System  
SSTS..... Section 7 Tracking Systems  
RMP..... Risk Management Plans  
RAATS..... RCRA Administrative Action Tracking System  
PADS..... PCB Activity Database System  
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)  
MLTS..... Material Licensing Tracking System  
COAL ASH DOE..... Steam-Electric Plant Operation Data  
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List  
PCB TRANSFORMER..... PCB Transformer Registration Database  
RADINFO..... Radiation Information Database  
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing  
DOT OPS..... Incident and Accident Data  
CONSENT..... Superfund (CERCLA) Consent Decrees  
INDIAN RESERV..... Indian Reservations  
FUSRAP..... Formerly Utilized Sites Remedial Action Program  
UMTRA..... Uranium Mill Tailings Sites  
LEAD SMELTERS..... Lead Smelter Sites  
US AIRS..... Aerometric Information Retrieval System Facility Subsystem  
US MINES..... Mines Master Index File  
ABANDONED MINES..... Abandoned Mines  
DOCKET HWC..... Hazardous Waste Compliance Docket Listing  
UXO..... Unexploded Ordnance Sites  
FUELS PROGRAM..... EPA Fuels Program Registered Listing  
PFAS FEDERAL SITES..... Federal Sites PFAS Information



## EXECUTIVE SUMMARY

PFAS TSCA.....	PFAS Manufacture and Imports Information
PFAS RCRA MANIFEST.....	PFAS Transfers Identified In the RCRA Database Listing
PFAS ATSDR.....	PFAS Contamination Site Location Listing
PFAS WQP.....	Ambient Environmental Sampling for PFAS
PFAS NPDES.....	Clean Water Act Discharge Monitoring Information
PFAS ECHO.....	Facilities in Industries that May Be Handling PFAS Listing
PFAS ECHO FIRE TRAINING.....	Facilities in Industries that May Be Handling PFAS Listing
PFAS PART 139 AIRPORT.....	All Certified Part 139 Airports PFAS Information Listing
AQUEOUS FOAM NRC.....	Aqueous Foam Related Incidents Listing
MA PFAS.....	PFAS Contaminated Sites Listing
MA AIRS.....	Permitted Facilities Listing
MA DRYCLEANERS.....	Regulated Drycleaning Facilities
MA GWDP.....	Ground Water Discharge Permits
MA MERCURY.....	Mercury Product Recycling Drop-Off Locations Listing
MA NPDES.....	NPDES Permit Listing
MA TIER 2.....	Tier 2 Information Listing
MA TSD.....	TSD Facility
MA UIC.....	Underground Injection Control Listing
MINES MRDS.....	Mineral Resources Data System
PFAS TRIS.....	List of PFAS Added to the TRI

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto.....	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner.....	EDR Exclusive Historical Cleaners

### EDR RECOVERED GOVERNMENT ARCHIVES

#### ***Exclusive Recovered Govt. Archives***

MA RGA HWS.....	Recovered Government Archive State Hazardous Waste Facilities List
MA RGA LUST.....	Recovered Government Archive Leaking Underground Storage Tank

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

# EXECUTIVE SUMMARY

## STANDARD ENVIRONMENTAL RECORDS

### ***Lists of Federal NPL (Superfund) sites***

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 01/25/2023 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>OLIN CHEMICAL</b> Cerclis ID:: 100438 EPA Id: MAD001403104	<b>51 EAMES ST</b>	<b>E 1/2 - 1 (0.589 mi.)</b>	<b>0</b>	<b>12</b>

### ***Lists of state- and tribal hazardous waste facilities***

MA SHWS: Contains information on releases of oil and hazardous materials that have been reported to DEP.

A review of the MA SHWS list, as provided by EDR, and dated 01/08/2023 has revealed that there are 8 MA SHWS sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>OLIN CHEMICAL</b> Release Tracking Number: 3-0011816 Release Tracking Number: 3-0000471 Current Status: RAONR Current Status: ADQREG	<b>51 EAMES ST</b>	<b>E 1/2 - 1 (0.589 mi.)</b>	<b>0</b>	<b>12</b>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>NO LOCATION AID</b> Release Tracking Number: 3-0021081 Current Status: RAO	<b>25 ROCKY HILL RD</b>	<b>SW 1/4 - 1/2 (0.397 mi.)</b>	<b>5</b>	<b>57</b>
<b>RESIDENCE</b> Release Tracking Number: 3-0031611 Current Status: RAO	<b>120 WILMINGTON ROAD</b>	<b>WNW 1/2 - 1 (0.619 mi.)</b>	<b>6</b>	<b>59</b>
<b>NO LOCATION AID</b> Release Tracking Number: 3-0019045 Current Status: RAO	<b>96 CHESTNUT ST</b>	<b>ENE 1/2 - 1 (0.740 mi.)</b>	<b>7</b>	<b>65</b>
<b>SCHILL RESIDENCE</b> Release Tracking Number: 3-0031971 Current Status: RAO	<b>15 CUTTING LANE</b>	<b>WSW 1/2 - 1 (0.796 mi.)</b>	<b>8</b>	<b>67</b>
<b>RESIDENTIAL PROPERTY</b> Release Tracking Number: 3-0025779 Current Status: RAO	<b>19 SKILTON LN</b>	<b>SSW 1/2 - 1 (0.922 mi.)</b>	<b>B10</b>	<b>69</b>
<b>CORNER OF CLINTON AN</b>	<b>2 CLINTON ST</b>	<b>NNW 1/2 - 1 (0.945 mi.)</b>	<b>11</b>	<b>78</b>

## EXECUTIVE SUMMARY

Release Tracking Number: 3-0023625  
Current Status: RAO

**NO LOCATION AID**

Release Tracking Number: 3-0011228  
Current Status: RAO

**4 BROOKFIELD RD**

**SSW 1/2 - 1 (0.961 mi.)**

**B12**

**81**

### ADDITIONAL ENVIRONMENTAL RECORDS

#### ***Other Ascertainable Records***

FUDS: 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.

A review of the FUDS list, as provided by EDR, and dated 11/01/2022 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
WILMINGTON GEO RES A		NE 1/2 - 1 (0.805 mi.)	9	69

ROD: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, and dated 01/25/2023 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>OLIN CHEMICAL</b>	<b>51 EAMES ST</b>	<b>E 1/2 - 1 (0.589 mi.)</b>	<b>0</b>	<b>12</b>

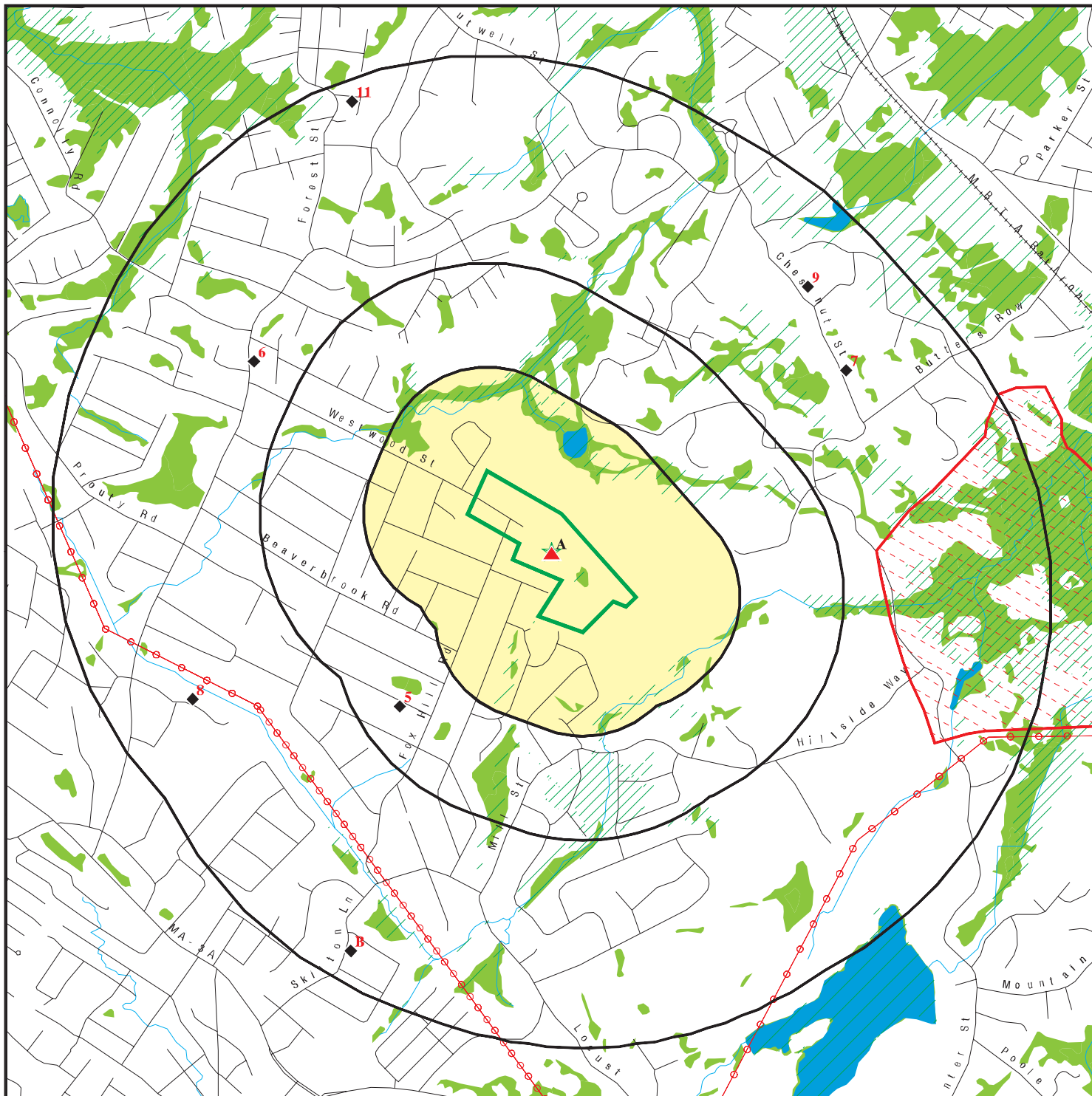















## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 3 records.

<u>Site Name</u>	<u>Database(s)</u>
7 NEW ENGLAND EXECUTIVE PARK	MA SHWS, MA RELEASE
SUMNER STREET @ FOXHILL ROAD	MA SHWS, MA RELEASE
COMMUTER RAILROAD LINE	MA SHWS, MA RELEASE

# OVERVIEW MAP - 7295798.2S



-  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
-  Dept. Defense Sites
-  Indian Reservations BIA
-  Power transmission lines
-  Special Flood Hazard Area (1%)
-  0.2% Annual Chance Flood Hazard
-  National Wetland Inventory
-  State Wetlands
-  Areas of Critical Environmental Concern








This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

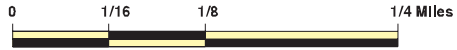
SITE NAME: Fox Hill Elementary School  
 ADDRESS: 252 Fox Hill Road  
 Burlington MA 01803  
 LAT/LONG: 42.529052 / 71.188461







CLIENT: ECMS, Inc.  
 CONTACT: Cheryl Cambria  
 INQUIRY #: 7295798.2s  
 DATE: March 31, 2023 2:57 pm

# DETAIL MAP - 7295798.2S



-  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
-  Dept. Defense Sites



-  Indian Reservations BIA
-  Special Flood Hazard Area (1%)
-  0.2% Annual Chance Flood Hazard
-  National Wetland Inventory
-  State Wetlands
-  Areas of Critical Environmental Concern

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: Fox Hill Elementary School  
 ADDRESS: 252 Fox Hill Road  
 Burlington MA 01803  
 LAT/LONG: 42.529052 / 71.188461

CLIENT: ECMS, Inc.  
 CONTACT: Cheryl Cambria  
 INQUIRY #: 7295798.2s  
 DATE: March 31, 2023 2:57 pm



## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Lists of Federal NPL (Superfund) sites</i></b>								
NPL	1.000		0	0	0	1	NR	1
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
<b><i>Lists of Federal Delisted NPL sites</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Lists of Federal sites subject to CERCLA removals and CERCLA orders</i></b>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<b><i>Lists of Federal CERCLA sites with NFRAP</i></b>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<b><i>Lists of Federal RCRA facilities undergoing Corrective Action</i></b>								
CORRACTS	1.000		0	0	0	0	NR	0
<b><i>Lists of Federal RCRA TSD facilities</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b><i>Lists of Federal RCRA generators</i></b>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
<b><i>Federal institutional controls / engineering controls registries</i></b>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS	TP		NR	NR	NR	NR	NR	0
<b><i>Lists of state- and tribal hazardous waste facilities</i></b>								
MA SHWS	1.000		0	0	1	7	NR	8
<b><i>Lists of state and tribal landfills and solid waste disposal facilities</i></b>								
MA SWF/LF	0.500		0	0	0	NR	NR	0
<b><i>Lists of state and tribal leaking storage tanks</i></b>								
MA LUST	0.500		0	0	0	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
MA LAST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
<b><i>Lists of state and tribal registered storage tanks</i></b>								
FEMA UST	0.250		0	0	NR	NR	NR	0
MA UST	0.250		0	0	NR	NR	NR	0
MA AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
<b><i>State and tribal institutional control / engineering control registries</i></b>								
MA INST CONTROL	0.500		0	0	0	NR	NR	0
<b><i>Lists of state and tribal voluntary cleanup sites</i></b>								
INDIAN VCP	0.500		0	0	0	NR	NR	0
<b><i>Lists of state and tribal brownfield sites</i></b>								
MA BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b><u>ADDITIONAL ENVIRONMENTAL RECORDS</u></b>								
<b><i>Local Brownfield lists</i></b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b><i>Local Lists of Landfill / Solid Waste Disposal Sites</i></b>								
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<b><i>Local Lists of Hazardous waste / Contaminated Sites</i></b>								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
<b><i>Local Land Records</i></b>								
MA LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
<b><i>Records of Emergency Release Reports</i></b>								
HMIRS	TP		NR	NR	NR	NR	NR	0
MA SPILLS	TP		NR	NR	NR	NR	NR	0
MA RELEASE	TP		NR	NR	NR	NR	NR	0
MA SPILLS 90	TP		NR	NR	NR	NR	NR	0
MA SPILLS 80	TP		NR	NR	NR	NR	NR	0
<b><i>Other Ascertainable Records</i></b>								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	1	NR	1

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	1	NR	1
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		0	0	NR	NR	NR	0
PFAS ECHO FIRE TRAINING	0.250		0	0	NR	NR	NR	0
PFAS PART 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
MA PFAS	0.250		0	0	NR	NR	NR	0
MA AIRS	TP		NR	NR	NR	NR	NR	0
MA ASBESTOS	TP	4	NR	NR	NR	NR	NR	4
MA DRYCLEANERS	0.250		0	0	NR	NR	NR	0
MA ENF	TP		NR	NR	NR	NR	NR	0





MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**A1**      **FOX HILL ELEMENTARY SCHOOL**  
**Target**    **FOX HILL RD.**  
**Property**   **BURLINGTON, MA**

**MA ASBESTOS**    **S119882427**  
    **N/A**

**Site 1 of 4 in cluster A**

**Actual:**  
**173 ft.**

**ASBESTOS:**

Name:	FOX HILL ELEMENTARY SCHOOL
Address:	FOX HILL RD.
City,State,Zip:	BURLINGTON, MA
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	07/24/2013
End Date:	07/26/2013
Date Entered:	Not reported
Entry Date:	07/20/2013
Quantity Material Removed SF:	600.00
Quantity Material Removed LF:	.00
Project Description:	Trns
AR Tracking ID:	176384
Super Lic Number:	AS001587
Monitor Lic Number:	AA000177
Lab Lic Number:	Not reported
Year:	2013
Sticker Number:	100181814
Form Type:	ANF-001
Fee Status:	Exempt
Facility Phone:	7812701791
Sub Town:	Not reported
Worksite:	THROUGHOUT
Occupied:	0
Contractor:	AC000669
Contract Type:	VERBAL
Hours:	Week days: 7AM-5:30PM Week end: N/A
Project Type:	Renv
Abatement Process:	Fcontain
Location:	Indoors
Decon Process:	3 CHAMBER DECON
Disposal Methods:	WET REMOVAL,DOUBLE BAG,FIBER DRUMS
Facility Usage:	EDUCATIONAL
Waiver Given:	Not reported
DEP Waiver Number:	1307925
DLWD Waiver Number:	7008-2013
Small Owner Occ:	5
Owner Name:	BURLINGTON PUBLIC SCHOOLS
Owner Address:	123 CAMBRIDGE ST
Owner City:	BURLINGTON
Owner State:	MA
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	PREMIER ABATEMENT & LABOR SERVICES
Transporter Address:	10 FALCON ST
Transporter City:	METHUEN
Transporter State:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**FOX HILL ELEMENTARY SCHOOL (Continued)**

**S119882427**

Final Site: 39  
 Certified Name: RAMON TEJADA  
 Cert Sign Date: 07/20/2013  
 Certified Company: PREMIER ABATEMENT  
 Certified Phone: 9782087163  
 Entered\_by: Not reported

**A2  
 Target  
 Property**

**FOX HILL SCHOOL  
 250 FOX HILL ROAD  
 BURLINGTON, MA**

**MA ASBESTOS**

**S122914096  
 N/A**

**Site 2 of 4 in cluster A**

**Actual:  
 173 ft.**

**ASBESTOS:**

Name: FOX HILL SCHOOL  
 Address: 250 FOX HILL ROAD  
 City,State,Zip: BURLINGTON, MA  
 Notification: Not reported  
 DEP Region: Not reported  
 Notifiers Name: Not reported  
 Start Date: 04/19/2016  
 End Date: 04/19/2016  
 Date Entered: Not reported  
 Entry Date: 03/23/2016  
 Quantity Material Removed SF: 10.00  
 Quantity Material Removed LF: .00  
 Project Description: BOILER  
 AR Tracking ID: 234524  
 Super Lic Number: AS033140  
 Monitor Lic Number: AA000007  
 Lab Lic Number: AA000007  
 Year: 2016  
 Sticker Number: 100239242R  
 Form Type: ANF-001  
 Fee Status: EXEMPT  
 Facility Phone: 7812701791  
 Sub Town: Not reported  
 Worksite: BOILER ROOM  
 Occupied: -1  
 Contractor: AC000319  
 Contract Type: WRITTEN  
 Hours: 7AM-4PM  
 Project Type: Renv  
 Abatement Process: Fcontain  
 Location: INDOORS  
 Decon Process: THREE CHAMBER DECONTAMINATION CHAMBER WITH SHOWER  
 Disposal Methods: ALL MATERIAL WILL BE WETTED THOROUGHLY, DOUBLE BAGGED AND LABELED  
 Facility Usage: SCHOOL  
 Waiver Given: Not reported  
 DEP Waiver Number: Not reported  
 DLWD Waiver Number: Not reported  
 Small Owner Occ: 0  
 Owner Name: SUPERINTENDENT OF SCHOOLS  
 Owner Address: 123 CAMBRIDGE STREET  
 Owner City: BURLINGTON  
 Owner State: MA  
 On Site Manager Name: ROD BUTCHER  
 On Site Manager Phone: 6173206876



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**FOX HILL SCHOOL (Continued)**

**S122914096**

Ins Comp: GREAT DIVIDE  
 Policy Number: WCA200774210  
 EXP Date: 8/1/2016  
 Facility Size: 150000  
 Transporter Name: ABS,INC  
 Transporter Address: PO BOX 9  
 Transporter City: SALEM  
 Transporter State: NH  
 Final Site: Not reported  
 Certified Name: WILLIAM SHEA  
 Cert Sign Date: 03/23/2016  
 Certified Company: ABS,INC  
 Certified Phone: 6038930380  
 Entered\_by: ABS,INC.

**A3  
 Target  
 Property**

**FOX HILL SCHOOL  
 250 FOX HILL ROAD  
 BURLINGTON, MA**

**MA ASBESTOS S119923019  
 N/A**

**Site 3 of 4 in cluster A**

**Actual:  
 173 ft.**

**ASBESTOS:**  
 Name: FOX HILL SCHOOL  
 Address: 250 FOX HILL ROAD  
 City,State,Zip: BURLINGTON, MA  
 Notification: Not reported  
 DEP Region: Not reported  
 Notifiers Name: Not reported  
 Start Date: 04/20/2016  
 End Date: 04/20/2016  
 Date Entered: Not reported  
 Entry Date: 03/17/2016  
 Quantity Material Removed SF: 10.00  
 Quantity Material Removed LF: .00  
 Project Description: BOILER  
 AR Tracking ID: 234156  
 Super Lic Number: AS033140  
 Monitor Lic Number: AA000007  
 Lab Lic Number: AA000007  
 Year: 2016  
 Sticker Number: 100239242  
 Form Type: ANF-001  
 Fee Status: EXEMPT  
 Facility Phone: 7812701791  
 Sub Town: Not reported  
 Worksite: BOILER ROOM  
 Occupied: -1  
 Contractor: AC000319  
 Contract Type: WRITTEN  
 Hours: 7AM-4PM  
 Project Type: Renv  
 Abatement Process: Fcontain  
 Location: INDOORS  
 Decon Process: THREE CHAMBER DECONTAMINATION CHAMBER WITH SHOWER  
 Disposal Methods: ALL MATERIAL WILL BE WETTED THOROUGHLY, DOUBLE BAGGED AND LABELED  
 Facility Usage: SCHOOL  
 Waiver Given: Not reported  
 DEP Waiver Number: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FOX HILL SCHOOL (Continued)**

**S119923019**

DLWD Waiver Number: Not reported  
Small Owner Occ: 0  
Owner Name: SUPERINTENDENT OF SCHOOLS  
Owner Address: 123 CAMBRIDGE STREET  
Owner City: BURLINGTON  
Owner State: MA  
On Site Manager Name: ROD BUTCHER  
On Site Manager Phone: 6173206876  
Ins Comp: GREAT DIVIDE  
Policy Number: WCA200774210  
EXP Date: 8/1/2016  
Facility Size: 150000  
Transporter Name: ABS,INC  
Transporter Address: PO BOX 9  
Transporter City: SALEM  
Transporter State: NH  
Final Site: Not reported  
Certified Name: WILLIAM SHEA  
Cert Sign Date: 03/17/2016  
Certified Company: ABS,INC  
Certified Phone: 6038930380  
Entered\_by: ABS,INC.

**A4  
Target  
Property**

**FOX HILL SCHOOL  
250 FOX HILL ROAD  
BURLINGTON, MA 01803**

**MA ASBESTOS S119923020  
N/A**

**Site 4 of 4 in cluster A**

**Actual:  
173 ft.**

**ASBESTOS:**  
Name: FOX HILL SCHOOL  
Address: 250 FOX HILL ROAD  
City,State,Zip: BURLINGTON, MA 01803  
Notification: 100239242R1  
DEP Region: NE  
Notifiers Name: ADVANCED BUILDING SYSTEMS INC  
Start Date: 04/19/2016  
End Date: 04/19/2016  
Date Entered: 23/03/2016  
Entry Date: 03/23/2016  
Quantity Material Removed SF: 10  
Quantity Material Removed LF: 0  
Project Description: BOILER  
AR Tracking ID: Not reported  
Super Lic Number: Not reported  
Monitor Lic Number: Not reported  
Lab Lic Number: Not reported  
Year: 2016  
Sticker Number: Not reported  
Form Type: Not reported  
Fee Status: Not reported  
Facility Phone: Not reported  
Sub Town: Not reported  
Worksite: Not reported  
Occupied: Not reported  
Contractor: Not reported  
Contract Type: Not reported  
Hours: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**FOX HILL SCHOOL (Continued)**

**S119923020**

Project Type:	Not reported
Abatement Process:	Not reported
Location:	Not reported
Decon Process:	Not reported
Disposal Methods:	Not reported
Facility Usage:	Not reported
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City:	Not reported
Owner State:	Not reported
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	Not reported
Transporter Address:	Not reported
Transporter City:	Not reported
Transporter State:	Not reported
Final Site:	Not reported
Certified Name:	Not reported
Cert Sign Date:	Not reported
Certified Company:	Not reported
Certified Phone:	Not reported
Entered_by:	Not reported

**NPL**  
**Region**  
**East**  
**1/2-1**  
**3108 ft.**

**OLIN CHEMICAL**  
**51 EAMES ST**  
**WILMINGTON, MA 01887**

**NPL** 1000304514  
**SEMS** MAD001403104  
**MA SHWS**  
**MA SWF/LF**  
**MA BROWNFIELDS**  
**MA RELEASE**  
**MA SPILLS**  
**ROD**  
**PRP**  
**ICIS**  
**FINDS**  
**ECHO**  
**PFAS NPL**  
**MA ASBESTOS**  
**MA Financial Assurance**  
**MA HW GEN**  
**PA MANIFEST**

**NPL:**  
 EPA Region: 1  
 EPA ID: MAD001403104  
 Site ID: 100438  
 Name: OLIN CHEMICAL  
 Address: 51 EAMES ST  
 City,State,Zip: WILMINGTON, MA 01887  
 Federal: N  
 Final Date: 2006-04-19 00:00:00



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Latitude: 42.528056  
Longitude: -71.153889  
Site Score: 50  
NAI: Not reported  
Native American Entity: Not reported  
Substance as of 08/2019:  
NPL Status: Currently on the Final NPL  
Substance ID: Not reported  
CAS Number: Not reported  
Substance: Not reported  
Pathway: Not reported  
Scoring: Not reported

Site as of 08/2019:  
EPA Region: 01  
Site ID: 0100438  
Site Status: F  
Federal Site: N  
Date Deleted: Not reported  
Date Finalized: 04/19/06  
Date Proposed: 09/14/05

Narr:  
Site Name: Olin Chemical  
Site EPA ID: MAD001403104  
Listing Date: 4/19/2006  
Site Score: 50  
Federal Facility Indicator: No  
Site List URL: <https://semspub.epa.gov/src/document/01/75001025>  
Site Progress URL: <https://cumulis.epa.gov/supercpad/cursites/csitinfo.cfm?id=0100438>  
Federal Register URL: <http://www.gpo.gov/fdsys/pkg/FR-2006-04-19/pdf/06-3666.pdf>  
Site Location URL: [https://epa.maps.arcgis.com/apps/webappviewer/index.html?id=33cebcdfdd1b4c3a8b51d416956c41f1&query=Superfund\\_National\\_Priorities\\_List\\_\\_NPL\\_\\_Sites\\_with\\_Status\\_Information\\_7557,SITE\\_EPA\\_ID=%27MAD001403104%27](https://epa.maps.arcgis.com/apps/webappviewer/index.html?id=33cebcdfdd1b4c3a8b51d416956c41f1&query=Superfund_National_Priorities_List__NPL__Sites_with_Status_Information_7557,SITE_EPA_ID=%27MAD001403104%27)

SEMS:  
Site ID: 0100438  
EPA ID: MAD001403104  
Name: OLIN CHEMICAL  
Address: 51 EAMES ST  
Address 2: Not reported  
City,State,Zip: WILMINGTON, MA 01887  
Cong District: 06  
FIPS Code: 25017  
Latitude: +42.528056  
Longitude: -071.153889  
FF: N  
NPL: Currently on the Final NPL  
Non NPL Status: Not reported

SEMS Detail:  
Region: 01  
Site ID: 0100438  
EPA ID: MAD001403104

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Site Name: OLIN CHEMICAL  
NPL: F  
FF: N  
OU: 00  
Action Code: NP  
Action Name: PROPOSED  
SEQ: 1  
Start Date: 2005-09-14 04:00:00  
Finish Date: 2005-09-14 04:00:00  
Qual: Not reported  
Current Action Lead: EPA Perf

Region: 01  
Site ID: 0100438  
EPA ID: MAD001403104  
Site Name: OLIN CHEMICAL  
NPL: F  
FF: N  
OU: 00  
Action Code: HR  
Action Name: HAZRANK  
SEQ: 1  
Start Date: 2004-08-23 04:00:00  
Finish Date: 2005-09-01 04:00:00  
Qual: O  
Current Action Lead: EPA Perf

Region: 01  
Site ID: 0100438  
EPA ID: MAD001403104  
Site Name: OLIN CHEMICAL  
NPL: F  
FF: N  
OU: 00  
Action Code: NF  
Action Name: NPL FINL  
SEQ: 1  
Start Date: 2006-04-19 04:00:00  
Finish Date: 2006-04-19 04:00:00  
Qual: Not reported  
Current Action Lead: EPA Perf

Region: 01  
Site ID: 0100438  
EPA ID: MAD001403104  
Site Name: OLIN CHEMICAL  
NPL: F  
FF: N  
OU: 00  
Action Code: SI  
Action Name: SI  
SEQ: 1  
Start Date: 1981-10-01 04:00:00  
Finish Date: 1981-10-01 04:00:00  
Qual: L  
Current Action Lead: EPA Perf

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Region: 01  
Site ID: 0100438  
EPA ID: MAD001403104  
Site Name: OLIN CHEMICAL  
NPL: F  
FF: N  
OU: 00  
Action Code: DS  
Action Name: DISCVRY  
SEQ: 1  
Start Date: 1980-06-01 04:00:00  
Finish Date: 1980-06-01 04:00:00  
Qual: Not reported  
Current Action Lead: EPA Perf

Region: 01  
Site ID: 0100438  
EPA ID: MAD001403104  
Site Name: OLIN CHEMICAL  
NPL: F  
FF: N  
OU: 00  
Action Code: TG  
Action Name: TA GRANT  
SEQ: 1  
Start Date: 2008-01-08 05:00:00  
Finish Date: Not reported  
Qual: Not reported  
Current Action Lead: EPA Perf

Region: 01  
Site ID: 0100438  
EPA ID: MAD001403104  
Site Name: OLIN CHEMICAL  
NPL: F  
FF: N  
OU: 01  
Action Code: RO  
Action Name: ROD  
SEQ: 1  
Start Date: 2021-03-30 05:00:00  
Finish Date: 2021-03-30 05:00:00  
Qual: Not reported  
Current Action Lead: EPA Perf

Region: 01  
Site ID: 0100438  
EPA ID: MAD001403104  
Site Name: OLIN CHEMICAL  
NPL: F  
FF: N  
OU: 03  
Action Code: AR  
Action Name: ADMIN REC  
SEQ: 1  
Start Date: 2011-06-06 05:00:00  
Finish Date: 2011-06-10 05:00:00



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Qual: V  
Current Action Lead: EPA Perf  
  
Region: 01  
Site ID: 0100438  
EPA ID: MAD001403104  
Site Name: OLIN CHEMICAL  
NPL: F  
FF: N  
OU: 00  
Action Code: AS  
Action Name: AIR SRVY  
SEQ: 1  
Start Date: 2009-02-26 05:00:00  
Finish Date: 2009-09-30 04:00:00  
Qual: Not reported  
Current Action Lead: EPA Perf

Region: 01  
Site ID: 0100438  
EPA ID: MAD001403104  
Site Name: OLIN CHEMICAL  
NPL: F  
FF: N  
OU: 00  
Action Code: CR  
Action Name: CI  
SEQ: 1  
Start Date: 2007-07-18 04:00:00  
Finish Date: Not reported  
Qual: Not reported  
Current Action Lead: EPA Perf

Region: 01  
Site ID: 0100438  
EPA ID: MAD001403104  
Site Name: OLIN CHEMICAL  
NPL: F  
FF: N  
OU: 00  
Action Code: AR  
Action Name: ADMIN REC  
SEQ: 3  
Start Date: 2020-08-10 05:00:00  
Finish Date: 2020-08-10 05:00:00  
Qual: Not reported  
Current Action Lead: EPA Perf

Region: 01  
Site ID: 0100438  
EPA ID: MAD001403104  
Site Name: OLIN CHEMICAL  
NPL: F  
FF: N  
OU: 00  
Action Code: MA  
Action Name: ST COOP

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

SEQ: 1  
Start Date: 2005-08-22 04:00:00  
Finish Date: Not reported  
Qual: Not reported  
Current Action Lead: EPA Perf

Region: 01  
Site ID: 0100438  
EPA ID: MAD001403104  
Site Name: OLIN CHEMICAL  
NPL: F  
FF: N  
OU: 00  
Action Code: AR  
Action Name: ADMIN REC  
SEQ: 4  
Start Date: 2021-04-01 05:00:00  
Finish Date: 2021-04-01 05:00:00  
Qual: Not reported  
Current Action Lead: EPA Perf

Region: 01  
Site ID: 0100438  
EPA ID: MAD001403104  
Site Name: OLIN CHEMICAL  
NPL: F  
FF: N  
OU: 00  
Action Code: AR  
Action Name: ADMIN REC  
SEQ: 5  
Start Date: 2021-03-25 05:00:00  
Finish Date: 2021-03-25 05:00:00  
Qual: Not reported  
Current Action Lead: EPA Perf

Region: 01  
Site ID: 0100438  
EPA ID: MAD001403104  
Site Name: OLIN CHEMICAL  
NPL: F  
FF: N  
OU: 00  
Action Code: PA  
Action Name: PA  
SEQ: 1  
Start Date: 1980-10-01 04:00:00  
Finish Date: 1980-10-01 04:00:00  
Qual: H  
Current Action Lead: Other

Region: 01  
Site ID: 0100438  
EPA ID: MAD001403104  
Site Name: OLIN CHEMICAL  
NPL: F  
FF: N

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

OU: 00  
Action Code: VA  
Action Name: OTHR CLEANUP  
SEQ: 1  
Start Date: 2000-10-25 04:00:00  
Finish Date: 2004-08-23 04:00:00  
Qual: H  
Current Action Lead: St Ovrsght

Region: 01  
Site ID: 0100438  
EPA ID: MAD001403104  
Site Name: OLIN CHEMICAL  
NPL: F  
FF: N  
OU: 01  
Action Code: BD  
Action Name: PRP RI/FS  
SEQ: 1  
Start Date: 2007-06-28 04:00:00  
Finish Date: 2021-03-30 05:00:00  
Qual: Not reported  
Current Action Lead: EPA Ovrsght

Region: 01  
Site ID: 0100438  
EPA ID: MAD001403104  
Site Name: OLIN CHEMICAL  
NPL: F  
FF: N  
OU: 02  
Action Code: BD  
Action Name: PRP RI/FS  
SEQ: 2  
Start Date: 2007-06-28 04:00:00  
Finish Date: 2021-03-30 05:00:00  
Qual: Not reported  
Current Action Lead: EPA Ovrsght

Region: 01  
Site ID: 0100438  
EPA ID: MAD001403104  
Site Name: OLIN CHEMICAL  
NPL: F  
FF: N  
OU: 03  
Action Code: BD  
Action Name: PRP RI/FS  
SEQ: 3  
Start Date: 2007-06-28 04:00:00  
Finish Date: 2021-03-30 05:00:00  
Qual: Not reported  
Current Action Lead: EPA Ovrsght

Region: 01  
Site ID: 0100438  
EPA ID: MAD001403104



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Site Name: OLIN CHEMICAL  
NPL: F  
FF: N  
OU: 03  
Action Code: BD  
Action Name: PRP RI/FS  
SEQ: 4  
Start Date: 2020-03-12 05:00:00  
Finish Date: Not reported  
Qual: Not reported  
Current Action Lead: EPA Ovrsght

**SHWS:**

Name: NO LOCATION AID  
Address: 51 EAMES ST  
City,State,Zip: WILMINGTON, MA 018870000  
Facility ID: 3-0011816  
Source Type: DRUMS  
Release Town: WILMINGTON  
Notification Date: 11/03/1994  
Category: TWO HR  
Associated ID: Not reported  
Current Status: RAONR  
Status Date: 10/27/1995  
Phase: Not reported  
Response Action Outcome: Not reported  
Oil Or Haz Material: Hazardous Material

Name: OLIN CORPORATION FACILITY  
Address: 51 EAMES ST  
City,State,Zip: WILMINGTON, MA 018870000  
Facility ID: 3-0000471  
Source Type: LAGOON  
Release Town: WILMINGTON  
Notification Date: 01/15/1987  
Category: NONE  
Associated ID: 3-0000471  
Current Status: ADQREG  
Status Date: 04/18/2006  
Phase: PHASE IV  
Response Action Outcome: Not reported  
Oil Or Haz Material: Oil

Name: OLIN CORPORATION FACILITY  
Address: 51 EAMES ST  
City,State,Zip: WILMINGTON, MA 018870000  
Facility ID: 3-0000471  
Source Type: UNCONTAIN  
Release Town: WILMINGTON  
Notification Date: 01/15/1987  
Category: NONE  
Associated ID: 3-0000471  
Current Status: ADQREG  
Status Date: 04/18/2006  
Phase: PHASE IV  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Oil Or Haz Material: Oil

LF:

Name: OLIN CORP  
Address: 51 EAMES ST  
City,State,Zip: WILMINGTON, MA 01887  
Facility Phone: (781)933-4240  
Annual Tons for 1995: Not reported  
Annual Tons for 1996: Not reported  
Annual Tons for 1997: Not reported  
Annual Tons for 1998: Not reported  
Annual Tons for 1999: Not reported  
Annual Tons for 2000: Not reported  
Annual Tons for 2001: Not reported  
Annual Tons for 2002: Not reported  
Annual Tons for 2003: Not reported  
Annual Tons for 2004: Not reported  
Annual Tons for 2005: Not reported  
Annual Tons for 2006: Not reported  
Annual Tons for 2007: Not reported  
Annual Tons for 2008: Not reported  
Annual Tons for 2009: Not reported  
Annual Tons for 2010: Not reported  
Annual Tons for 2011: Not reported  
Annual Tons for 2012: Not reported  
Annual Tons for 2013: Not reported  
Annual Tons for 2014: Not reported  
Annual Tons for 2015: Not reported  
Reg Obj Acct ID Num For Each Solid Waste Operation: 313063  
Days of Operation: Not reported  
Note On The Physical Location Of The Site: Not reported  
Acres: Not reported  
Active Year: 1975  
Classification Group: Land Disposal  
Current Or Most Recent Closed Classification: CLF  
Description Of The Last Classification: Closed Landfill with Env Monitoring Required  
Close Year: 1998  
Name Of The Organization: OLIN CHEMICAL  
Contacts Organization Type: Private  
Contact Persons Name And Title: DAVID VAUGHN, REG.ENVIRO. MAN.  
Contact Phone Including Extension: Not reported  
Contact Mailing Street Address: PO BOX 248  
Contacts Mailing City, State, Zip: CHARLESTOWN, TN 37310  
Inactive Year: 1988  
Land Disposal Closure Status: Capped  
Land Disposal Only, Category Waste Disposed: SLUDGE  
Landfills Liner: Not Lined  
Municipality That The Operation Is Located In: WILMINGTON  
Alpha-Numeric Identification Code: SL0342.004  
Numeric-Only Portion Of The Identification Code: 0342.004  
Region: Northeast (Wilmington)  
Org That Pays Any Annual Compliance Fee And/Or Permittee:OLIN CORPORATION  
Responsible Party Organization Type: Private  
Responsible Party Mailing Street Address Line 1: 51 EAMES ST  
Responsible Party Mailing Street Address Line 2: Not reported  
Responsible Party Mailing City, State, Zip: NORTH BILLERICA, MA 01862  
Responsible Party Telephone Inc Extension: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Maximum Permitted Tons Per Day: Not reported  
Current Operational Status: Closed

**LF PROFILES:**

Site Type Code: SLUDGE  
Site Type Desc: Residual from treatment of gasses or fluids, includes industrial & water treatment sludges  
Status: Closed  
Owner Type: Private  
Stat Active Yr: 0:00  
Stat Inactive Yr: 1988  
Stat Close Yr: 11/13/1998  
Lined?: Not Lined  
Cap Status: Capped  
Cap Cert Date: Not reported  
Post Closure Permit: Not reported  
Post Closure Use: Not reported  
LF Gas Energy: Not reported  
Acres: 2.15  
Acres Doc: UNK  
Acres Doc Desc: Unknown  
Electrical Provider: Municipal  
Dist To Trans Miles: 0.14  
Wind Speed 30m: 4.7567  
Wind Speed 50m: 5.3089  
Wind Speed 100m: 6.2033  
Wind Speed 70m: 5.7048  
Mass DEP FMF DB Id: 315269

**BROWNFIELDS 2:**

Name: OLIN CORPORATION FACILITY  
Address: 51 EAMES ST  
City,State,Zip: WILMINGTON, MA  
RTN: 3-0000471  
RAO Class: Not reported  
Other RTNs: 3-0011816  
Current Owner: Olin Chemicals and Alkali Inc  
MCP Status: ADEQUATE REG  
AUL: No  
COCs: Waste Water Discharge  
Former Use: Manufacture  
Current Use: Manufacture  
Total Acreage: 49.78  
Fact Sheet: Not reported

**Release:**

Name: OLIN CORPORATION FACILITY  
Address: 51 EAMES ST  
City,State,Zip: WILMINGTON, MA 018870000  
Release Tracking Number/Current Status: 3-0000471 / ADQREG  
Primary ID: 3-0000471  
Official City: WILMINGTON  
Notification: 01/15/1987  
Category: NONE  
Status Date: 04/18/2006  
Phase: PHASE IV  
Response Action Outcome: -



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

Actions:

Action Type: Compliance and Enforcement Action  
Action Status: Interim Deadline Letter Issued  
Action Date: 1/10/2003  
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action  
Action Status: Interim Deadline Letter Issued  
Action Date: 1/13/2006  
Response Action Outcome: Not reported

Action Type: Release Disposition  
Action Status: Valid Transition Site  
Action Date: 1/15/1987  
Response Action Outcome: Not reported

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 1/16/2002  
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action  
Action Status: Interim Deadline Letter Issued  
Action Date: 1/16/2003  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Status: Status or Interim Report Received  
Action Date: 1/17/2006  
Response Action Outcome: Not reported

Action Type: Phase 2  
Action Status: Status or Interim Report Received  
Action Date: 1/20/2005  
Response Action Outcome: Not reported

Action Type: Phase 2  
Action Status: Revised Statement or Transmittal Received  
Action Date: 1/22/1999  
Response Action Outcome: Not reported

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 1/22/2004  
Response Action Outcome: Not reported

Action Type: Immediate Response Action  
Action Status: Imminent Hazard Evaluation Received  
Action Date: 1/22/2004  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Status: Written Plan Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Action Date:	1/27/2000
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	1/31/2003
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	1/31/2003
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	1/5/2000
Response Action Outcome:	Not reported
Action Type:	RLFA
Action Status:	FLDRUN
Action Date:	1/7/1998
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Revised Statement or Transmittal Received
Action Date:	1/7/2004
Response Action Outcome:	Not reported
Action Type:	RLFA
Action Status:	FLDRUN
Action Date:	1/8/1998
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	1/9/1997
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	1/9/2001
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Revised Statement or Transmittal Received
Action Date:	10/1/1998
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	10/1/2003
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Imminent Hazard Evaluation Received
Action Date:	10/1/2003
Response Action Outcome:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Action Type: Phase 2  
Action Status: Revised Statement or Transmittal Received  
Action Date: 10/10/2000  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Status: Modified Revised or Updated Plan Received  
Action Date: 10/10/2001  
Response Action Outcome: Not reported

Action Type: RLFA  
Action Status: FLDRUN  
Action Date: 10/11/1996  
Response Action Outcome: Not reported

Action Type: Phase 2  
Action Status: Status or Interim Report Received  
Action Date: 10/11/2005  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Status: Permit Effective Date  
Action Date: 10/12/1999  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Status: Revised Statement or Transmittal Received  
Action Date: 10/12/1999  
Response Action Outcome: Not reported

Action Type: Phase 2  
Action Status: Completion Statement Received  
Action Date: 10/12/2001  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Status: Status or Interim Report Received  
Action Date: 10/12/2001  
Response Action Outcome: Not reported

Action Type: Phase 2  
Action Status: Scope of Work Received  
Action Date: 10/12/2001  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Status: Permit Extension Received  
Action Date: 10/12/2003  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Status: Permit Extension Received  
Action Date: 10/13/2003  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Status: Completion Statement Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Action Date:	10/13/2004
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	10/13/2004
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	RFI
Action Date:	10/14/1994
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	10/15/2003
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	RFI
Action Date:	10/17/1994
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	RFI
Action Date:	10/18/2002
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	10/18/2002
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Status or Interim Report Received
Action Date:	10/18/2005
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Modified Revised or Updated Plan Received
Action Date:	10/24/2005
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Status or Interim Report Received
Action Date:	10/25/2005
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via Tier Classification Submittal
Action Date:	10/27/1995
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	10/28/2002
Response Action Outcome:	Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Action Type:	Immediate Response Action
Action Status:	Modified Revised or Updated Plan Received
Action Date:	10/28/2004
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	10/30/1998
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Written Approval of Plan
Action Date:	10/5/2001
Response Action Outcome:	Not reported
Action Type:	Phase 3
Action Status:	Notice of Delay in Meeting RA Deadline Received
Action Date:	10/7/2002
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	10/8/2003
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Revised Statement or Transmittal Received
Action Date:	11/12/1998
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	11/13/2003
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Written Plan Received
Action Date:	11/15/2001
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Modified Revised or Updated Plan Received
Action Date:	11/18/2002
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Completion Statement Received
Action Date:	11/18/2002
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	11/18/2002
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Written Plan Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Action Date:	11/19/2004
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Written Approval of Plan
Action Date:	11/2/2000
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	11/22/2002
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Written Approval of Plan
Action Date:	11/23/2001
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	11/24/2003
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	11/29/1996
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	11/3/2004
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Status or Interim Report Received
Action Date:	11/3/2005
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	11/6/1997
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	11/7/2003
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Written Approval of Plan
Action Date:	11/9/2000
Response Action Outcome:	Not reported
Action Type:	RLFA
Action Status:	FLDRUN
Action Date:	12/1/1997
Response Action Outcome:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	12/1/2005
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Written Plan Received
Action Date:	12/10/2002
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	12/12/2003
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	12/15/2003
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	12/17/2002
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Completion Statement Received
Action Date:	12/2/2002
Response Action Outcome:	Not reported
Action Type:	Phase 3
Action Status:	Completion Statement Received
Action Date:	12/2/2002
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Revised Statement or Transmittal Received
Action Date:	12/21/1998
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	12/22/1998
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	12/22/2003
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	12/22/2004
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Written Plan Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Action Date:	12/28/1998
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Modified Revised or Updated Plan Received
Action Date:	12/28/1999
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	12/29/2004
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	12/29/2004
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	12/31/2002
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	12/5/2003
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	12/6/2001
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	12/6/2001
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	12/7/2001
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	2/1/2005
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Modified Revised or Updated Plan Received
Action Date:	2/10/2005
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	2/14/2002
Response Action Outcome:	Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Action Type:	Phase 2
Action Status:	Status or Interim Report Received
Action Date:	2/14/2006
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Revised Statement or Transmittal Received
Action Date:	2/17/1999
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Tier 1A or Priority Submittal Approved
Action Date:	2/19/1999
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Completion Statement Received
Action Date:	2/19/2002
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Revised Statement or Transmittal Received
Action Date:	2/20/2004
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Status or Interim Report Received
Action Date:	2/22/2005
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Completion Statement Received
Action Date:	2/23/2006
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	2/24/2005
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	2/26/2004
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Completion Statement Received
Action Date:	2/27/2002
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	2/27/2003
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received

Map ID  
Direction  
Distance  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Action Date:	2/27/2004
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Revised Statement or Transmittal Received
Action Date:	2/3/1998
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Written Approval of Plan
Action Date:	2/4/2002
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Delay in Meeting RA Deadline Ordered or Approved
Action Date:	2/5/2004
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	2/5/2004
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Written Approval of Plan
Action Date:	2/7/2002
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Tier 1A or Priority Submittal Approved
Action Date:	2/8/1999
Response Action Outcome:	Not reported
Action Type:	TREGS
Action Status:	WAVREC
Action Date:	3/1/1989
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	3/1/1999
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Modified Revised or Updated Plan Received
Action Date:	3/1/1999
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Revised Statement or Transmittal Received
Action Date:	3/1/1999
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	3/10/1994
Response Action Outcome:	Not reported

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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	3/10/1994
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	3/16/1998
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	3/16/1999
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	3/2/2006
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Status or Interim Report Received
Action Date:	3/2/2006
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	3/22/1996
Response Action Outcome:	Not reported
Action Type:	Phase 3
Action Status:	Completion Statement Received
Action Date:	3/25/2004
Response Action Outcome:	Not reported
Action Type:	RLFA
Action Status:	FLDRUN
Action Date:	3/27/1996
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Written Plan Received
Action Date:	3/28/2003
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Completion Statement Received
Action Date:	3/28/2003
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	3/3/2004
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received

Map ID  
Direction  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Action Date:	3/3/2005
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date:	3/31/1994
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	3/31/1994
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	3/31/2005
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	3/4/1998
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	4/10/2001
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	4/11/2001
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	4/11/2002
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	4/11/2003
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date:	4/12/1994
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	4/12/1994
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	4/16/1996
Response Action Outcome:	Not reported



Map ID  
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**OLIN CHEMICAL (Continued)**

**1000304514**

Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	4/18/2006
Response Action Outcome:	Not reported
Action Type:	RAO Not Required
Action Status:	Adequately Regulated
Action Date:	4/18/2006
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Written Approval of Plan
Action Date:	4/22/2003
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Modified Revised or Updated Plan Received
Action Date:	4/23/2001
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	4/25/2005
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	4/26/2002
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	4/5/2002
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Written Plan Received
Action Date:	4/6/2000
Response Action Outcome:	Not reported
Action Type:	Phase 3
Action Status:	Completion Statement Received
Action Date:	5/10/2002
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Written Plan Received
Action Date:	5/13/2004
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Modified Revised or Updated Plan Received
Action Date:	5/14/2001
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received

Map ID  
Direction  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Action Date:	5/15/2001
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	5/16/2005
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Completion Statement Received
Action Date:	5/17/2002
Response Action Outcome:	Not reported
Action Type:	Phase 3
Action Status:	Notice of Delay in Meeting RA Deadline Received
Action Date:	5/19/2003
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Modified Revised or Updated Plan Received
Action Date:	5/2/2001
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Completion Statement Received
Action Date:	5/2/2003
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	5/2/2005
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Status or Interim Report Received
Action Date:	5/20/2004
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	5/24/1994
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	5/28/1999
Response Action Outcome:	Not reported
Action Type:	RLFA
Action Status:	FLDRUN
Action Date:	5/3/1996
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Completion Statement Received
Action Date:	5/31/2002
Response Action Outcome:	Not reported

Map ID  
Direction  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	5/6/2005
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Completion Statement Received
Action Date:	5/8/2001
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	5/8/2001
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Completion Statement Received
Action Date:	5/9/2002
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Status or Interim Report Received
Action Date:	5/9/2003
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	6/1/1998
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	6/1/2005
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Modified Revised or Updated Plan Received
Action Date:	6/13/2001
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Status or Interim Report Received
Action Date:	6/15/2005
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	6/16/2004
Response Action Outcome:	Not reported
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	6/16/2009
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Status or Interim Report Received

Map ID  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Action Date:	6/18/2004
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Notice of Delay in Meeting RA Deadline Received
Action Date:	6/21/2001
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Completion Statement Received
Action Date:	6/21/2002
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	6/22/2004
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Completion Statement Received
Action Date:	6/23/1997
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Tier 1A or Priority Submittal Approved
Action Date:	6/23/1998
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Permit Extension Received
Action Date:	6/23/1999
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Tier 1A or Priority Submittal Approved
Action Date:	6/24/1999
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Written Approval of Plan
Action Date:	6/26/2000
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Written Plan Received
Action Date:	6/26/2008
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	6/28/1996
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Status or Interim Report Received
Action Date:	6/28/2005
Response Action Outcome:	Not reported



Map ID  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
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**OLIN CHEMICAL (Continued)**

**1000304514**

Action Type: Release Abatement Measure  
Action Status: Modified Revised or Updated Plan Received  
Action Date: 6/6/2002  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Status: Status or Interim Report Received  
Action Date: 6/6/2002  
Response Action Outcome: Not reported

Action Type: Immediate Response Action  
Action Status: Written Approval of Plan  
Action Date: 6/8/2001  
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action  
Action Status: Interim Deadline Letter Issued  
Action Date: 6/8/2004  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Status: Written Approval of Plan  
Action Date: 7/12/1999  
Response Action Outcome: Not reported

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 7/13/2001  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Status: Completion Statement Received  
Action Date: 7/13/2001  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Status: Status or Interim Report Received  
Action Date: 7/13/2001  
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action  
Action Status: Interim Deadline Letter Issued  
Action Date: 7/15/2002  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Status: Status or Interim Report Received  
Action Date: 7/17/2002  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Status: Modified Revised or Updated Plan Received  
Action Date: 7/17/2002  
Response Action Outcome: Not reported

Action Type: Phase 2  
Action Status: Completion Statement Received

Map ID  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Action Date:	7/2/2002
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	7/2/2003
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Written Plan Received
Action Date:	7/2/2004
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	7/20/2004
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	7/25/2005
Response Action Outcome:	Not reported
Action Type:	TREGS
Action Status:	WAVSIG
Action Date:	7/26/1989
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	7/28/2005
Response Action Outcome:	Not reported
Action Type:	TREGS
Action Status:	WAVACC
Action Date:	7/31/1989
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Revised Statement or Transmittal Received
Action Date:	7/31/1998
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	7/31/2002
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Completion Statement Received
Action Date:	7/5/2005
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	7/9/2001
Response Action Outcome:	Not reported

Map ID  
Direction  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Action Type:	Phase 2
Action Status:	Status or Interim Report Received
Action Date:	8/11/2005
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	8/13/2004
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Status or Interim Report Received
Action Date:	8/16/2005
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	8/17/2005
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	8/20/2004
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Written Plan Received
Action Date:	8/20/2004
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Completion Statement Received
Action Date:	8/26/2002
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	8/26/2003
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Status or Interim Report Received
Action Date:	8/26/2003
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	8/28/1996
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	8/29/2001
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received

Map ID  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Action Date:	8/29/2001
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Modified Revised or Updated Plan Received
Action Date:	8/29/2003
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	8/29/2003
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	8/30/1996
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	8/31/2005
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	8/5/2002
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	8/5/2003
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Status or Interim Report Received
Action Date:	8/5/2005
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Imminent Hazard Evaluation Received
Action Date:	8/6/2004
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	8/6/2004
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Written Approval of Plan
Action Date:	8/9/2000
Response Action Outcome:	Not reported
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	9/11/2003
Response Action Outcome:	Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	9/15/2003
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Tier 1A or Priority Submittal Approved
Action Date:	9/16/1996
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	9/18/1997
Response Action Outcome:	Not reported
Action Type:	PIP
Action Status:	Public Involvement Petition Received
Action Date:	9/18/2002
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Completion Statement Received
Action Date:	9/19/2002
Response Action Outcome:	Not reported
Action Type:	TREGS
Action Status:	BWSC04
Action Date:	9/20/1994
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 1A Classification
Action Date:	9/20/1994
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Permit Effective Date
Action Date:	9/20/1994
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	9/20/1994
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Tier 1A or Priority Submittal Approved
Action Date:	9/23/1996
Response Action Outcome:	Not reported
Action Type:	Phase 2
Action Status:	Completion Statement Received
Action Date:	9/24/2002
Response Action Outcome:	Not reported
Action Type:	Release Abatement Measure
Action Status:	Written Approval of Plan

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Action Date: 9/28/2000  
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action  
Action Status: Interim Deadline Letter Issued  
Action Date: 9/5/2002  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Status: Status or Interim Report Received  
Action Date: 9/7/2004  
Response Action Outcome: Not reported

Action Type: Phase 2  
Action Status: Status or Interim Report Received  
Action Date: 9/7/2005  
Response Action Outcome: Not reported

Action Type: Release Abatement Measure  
Action Status: Written Approval of Plan  
Action Date: 9/8/1999  
Response Action Outcome: Not reported

Action Type: Phase 2  
Action Status: Scope of Work Received  
Action Date: 9/9/2004  
Response Action Outcome: Not reported

Action Type: BWS20  
Action Status: APPROV  
Action Date: Not reported  
Response Action Outcome: Not reported

Chemicals:  
Chemical: UNKNOWN  
Quantity: Not reported  
Chemical: WASTEWATER DISCHARGE  
Quantity: Not reported  
Location Type: MANUFACT  
Location Type: WASTE TRMT  
Source: LAGOON  
Source: UNCONTAIN

Name: NO LOCATION AID  
Address: 51 EAMES ST  
City,State,Zip: WILMINGTON, MA 018870000  
Release Tracking Number/Current Status: 3-0011816 / RAONR  
Primary ID: Not reported  
Official City: WILMINGTON  
Notification: 11/03/1994  
Category: TWO HR  
Status Date: 10/27/1995  
Phase: Not reported  
Response Action Outcome: -  
Oil / Haz Material Type: Hazardous Material

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

[Click here to access the MA DEP site for this facility:](#)

**Actions:**

Action Type: Immediate Response Action  
Action Status: Written Approval of Plan  
Action Date: 1/17/1995  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Status: Revised Statement or Transmittal Received  
Action Date: 10/12/1999  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Status: Permit Effective Date  
Action Date: 10/12/1999  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Status: Permit Extension Received  
Action Date: 10/12/2003  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Status: Permit Extension Received  
Action Date: 10/13/2003  
Response Action Outcome: Not reported

Action Type: RAO Not Required  
Action Status: Linked to a Tier Classified Site  
Action Date: 10/27/1995  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Status: RTN Linked to TCLASS Via Tier Classification Submittal  
Action Date: 10/27/1995  
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 11/17/1994  
Response Action Outcome: Not reported

Action Type: Immediate Response Action  
Action Status: IRA Assessment Only  
Action Date: 11/3/1994  
Response Action Outcome: Not reported

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 11/3/1994  
Response Action Outcome: Not reported

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 12/15/1995  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Action Type: Immediate Response Action  
Action Status: Written Plan Received  
Action Date: 12/29/1994  
Response Action Outcome: Not reported

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 12/29/1994  
Response Action Outcome: Not reported

Action Type: Compliance and Enforcement Action  
Action Status: Interim Deadline Letter Issued  
Action Date: 12/7/1994  
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 12/7/1994  
Response Action Outcome: Not reported

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 5/1/1995  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Status: Permit Extension Received  
Action Date: 6/23/1999  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Status: Permit Effective Date  
Action Date: 9/20/1994  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Status: Tier 1A Classification  
Action Date: 9/20/1994  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 9/20/1994  
Response Action Outcome: Not reported

Chemicals:  
Chemical: UNKNOWN CHEMICAL OF TYPE - HAZARDOUS MATERIAL  
Quantity: Not reported  
Location Type: INDUSTRIAL  
Source: DRUMS

MA Spills:  
Facility ID: 3-0471  
Staff Lead: FONKEM, V  
Last Entered: 19930825  
Spill Date: 19910502  
Spill ID: N91-0595  
Date Entered: 19911001  
First Response: 19910502  
Spill Time: Not reported



Map ID  
Direction  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Report Date:	19910502	Report Time:	03:30PM
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	VIRGIN	Contam Soil:	Not reported
Env Impact:	-----	Other Impact:	Not reported
Material:	#2 FUEL OIL	Other Material:	Not reported
Qty Reported:	UNKNOWN	Qty Actual:	-----
Qty Reported:	-----	Qty Actual:	-----
CAS No:	Not reported	PCB Lev (ppm):	-----
Source:	U.S.T.	Other Source:	Not reported
Incident:	TANK REMOVAL	Other Incdnt:	Not reported
Cleanup Type:	---	Contractor:	NOT USED
Referral:	SA	LUST Elig:	---
Report Prep:	Not reported	Category:	2
Notifier:	C NELSON/OLIN CHEMICAL CORP		
Notif Tel:	Not reported		
Days/Close:	0		

ROD:  
No Details: No Details

PRP:  
PRP Name: 4TH WATCH LLC  
AMERICAN BILTRITE INC.  
AMERICAN BILTRITE INC.  
AMERICAN BILTRITE INC.  
AMERICAN BILTRITE INC.  
BILTRITE CORP  
BILTRITE CORP  
BILTRITE CORP  
FISONS LIMITED  
FISONS LIMITED  
NOR-AM AGRO LLC  
NOR-AM AGRO LLC  
OLIN CORPORATION  
OLIN CORPORATION  
OLIN CORPORATION  
OLIN CORPORATION  
STEPAN CHEMICAL CORP.  
STEPAN CHEMICAL CORP.  
STEPAN CHEMICAL CORP.  
STEPAN CHEMICAL CORP.

[Click this hyperlink](#) while viewing on your computer to access additional PRP: detail in the EDR Site Report.

ICIS:  
Enforcement Action ID: 01-N00000283  
FRS ID: 110000759796  
Action Name: OLIN CORPORATION (Permit MA0005304) Qncr Comment  
Facility Name: OLIN CORPORATION  
Facility Address: 51 EAMES ST  
WILMINGTON, MA 01887  
Enforcement Action Type: Under Review  
Facility County: MIDDLESEX  
Program System Acronym: NPDES  
Enforcement Action Forum Desc: Administrative - Informal  
EA Type Code: UNDREV  
Facility SIC Code: 2869

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Federal Facility ID: Not reported  
Latitude in Decimal Degrees: 42.528611  
Longitude in Decimal Degrees: -71.153611  
Permit Type Desc: NPDES Individual Permit  
Program System Acronym: MA0005304  
Facility NAICS Code: Not reported  
Tribal Land Code: Not reported

Enforcement Action ID: 01-N00000248  
FRS ID: 110000759796  
Action Name: OLIN CORPORATION (Permit MA0005304) Qncr Comment  
Facility Name: OLIN CORPORATION  
Facility Address: 51 EAMES ST  
WILMINGTON, MA 01887

Enforcement Action Type: Under Review  
Facility County: MIDDLESEX  
Program System Acronym: NPDES  
Enforcement Action Forum Desc: Administrative - Informal  
EA Type Code: UNDREV  
Facility SIC Code: 2869  
Federal Facility ID: Not reported  
Latitude in Decimal Degrees: 42.528611  
Longitude in Decimal Degrees: -71.153611  
Permit Type Desc: NPDES Individual Permit  
Program System Acronym: MA0005304  
Facility NAICS Code: Not reported  
Tribal Land Code: Not reported

Enforcement Action ID: 01-2015-0006  
FRS ID: 110000759796  
Action Name: OLIN CHEMICAL SUPERFUND SITE  
Facility Name: OLIN CHEMICAL SITE  
Facility Address: 51 EAMES ST  
WILMINGTON, MA 01887

Enforcement Action Type: CERCLA 107L Filing Of Lien  
Facility County: MIDDLESEX  
Program System Acronym: CERCLIS  
Enforcement Action Forum Desc: Administrative - Formal  
EA Type Code: 107L  
Facility SIC Code: Not reported  
Federal Facility ID: Not reported  
Latitude in Decimal Degrees: 42.528056  
Longitude in Decimal Degrees: -71.153889  
Permit Type Desc: Not reported  
Program System Acronym: MAD001403104  
Facility NAICS Code: Not reported  
Tribal Land Code: Not reported

Enforcement Action ID: 01-2007-0003  
FRS ID: 110000759796  
Action Name: OLIN CORP  
Facility Name: OLIN CHEMICAL SITE  
Facility Address: 51 EAMES ST  
WILMINGTON, MA 01887  
Enforcement Action Type: CERCLA 122A/104A Agrmt For RI/FS  
Facility County: MIDDLESEX  
Program System Acronym: CERCLIS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Enforcement Action Forum Desc: Administrative - Formal  
EA Type Code: 122/104  
Facility SIC Code: Not reported  
Federal Facility ID: Not reported  
Latitude in Decimal Degrees: 42.528056  
Longitude in Decimal Degrees: -71.153889  
Permit Type Desc: Not reported  
Program System Acronym: MAD001403104  
Facility NAICS Code: Not reported  
Tribal Land Code: Not reported

Enforcement Action ID: 01-2004-9038  
FRS ID: 110000759796  
Action Name: OLIN CORPORATION  
Facility Name: OLIN CORPORATION  
Facility Address: 51 EAMES ST  
WILMINGTON, MA 01887

Enforcement Action Type: CWA 309G2A AO For Class I Penalties  
Facility County: MIDDLESEX  
Program System Acronym: NPDES  
Enforcement Action Forum Desc: Administrative - Formal  
EA Type Code: 309G2A  
Facility SIC Code: 2869  
Federal Facility ID: Not reported  
Latitude in Decimal Degrees: 42.528611  
Longitude in Decimal Degrees: -71.153611  
Permit Type Desc: NPDES Individual Permit  
Program System Acronym: MA0005304  
Facility NAICS Code: Not reported  
Tribal Land Code: Not reported

Facility Name: OLIN CHEMICAL SITE  
Address: 51 EAMES ST  
Tribal Indicator: N  
Fed Facility: No  
NAIC Code: Not reported  
SIC Code: Not reported

Facility Name: OLIN CHEMICAL SITE  
Address: 51 EAMES ST  
Tribal Indicator: N  
Fed Facility: No  
NAIC Code: Not reported  
SIC Code: Not reported

Facility Name: OLIN CHEMICAL SITE  
Address: 51 EAMES ST  
Tribal Indicator: N  
Fed Facility: No  
NAIC Code: Not reported  
SIC Code: Not reported

Facility Name: OLIN CHEMICAL SITE  
Address: 51 EAMES ST  
Tribal Indicator: N  
Fed Facility: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

NAIC Code:	Not reported
SIC Code:	Not reported
Facility Name:	OLIN CHEMICAL SITE
Address:	51 EAMES ST
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported
Facility Name:	OLIN CHEMICAL SITE
Address:	51 EAMES ST
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported
Facility Name:	OLIN CHEMICAL SITE
Address:	51 EAMES ST
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported
Facility Name:	OLIN CHEMICAL SITE
Address:	51 EAMES ST
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported
Facility Name:	OLIN CHEMICAL SITE
Address:	51 EAMES ST
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	2869
Facility Name:	OLIN CHEMICAL SITE
Address:	51 EAMES ST
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	2869
Facility Name:	OLIN CHEMICAL SITE
Address:	51 EAMES ST
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	2869
Facility Name:	OLIN CHEMICAL SITE
Address:	51 EAMES ST
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported



Map ID  
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Distance  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

SIC Code: 2869

Facility Name: OLIN CHEMICAL SITE  
Address: 51 EAMES ST  
Tribal Indicator: N  
Fed Facility: No  
NAIC Code: Not reported  
SIC Code: 2869

Facility Name: OLIN CHEMICAL SITE  
Address: 51 EAMES ST  
Tribal Indicator: N  
Fed Facility: No  
NAIC Code: Not reported  
SIC Code: 2869

Facility Name: OLIN CHEMICAL SITE  
Address: 51 EAMES ST  
Tribal Indicator: N  
Fed Facility: No  
NAIC Code: Not reported  
SIC Code: 2869

Facility Name: OLIN CHEMICAL SITE  
Address: 51 EAMES ST  
Tribal Indicator: N  
Fed Facility: No  
NAIC Code: Not reported  
SIC Code: 2869

**FINDS:**

Registry ID: 110000759796

[Click Here for FRS Facility Detail Report:](#)

**Environmental Interest/Information System:**

AIR EMISSIONS CLASSIFICATION UNKNOWN  
SUPERFUND NPL

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.

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

HAZARDOUS WASTE BIENNIAL REPORTER  
MA-EPICS - Massachusetts Environmental Protection Integrated Computer System

Map ID  
Direction  
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

**ECHO:**

Envid: 1000304514  
Registry ID: 110000759796  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110000759796>  
Name: OLIN CHEMICAL SITE  
Address: 51 EAMES ST  
City,State,Zip: WILMINGTON, MA 01887

**PFAS NPL:**

EPA Region: 01  
Name: OLIN CHEMICAL  
Address: 51 EAMES ST  
City,State,Zip: WILMINGTON, MA 01887  
EPAID: MAD001403104  
Superfund Link: <https://cumulis.epa.gov/supercpad/cursites/csitinfo.cfm?id=0100438&mssp=med>  
Data Systems: SEMS  
Last Updated: 2020-06-08 00:00:00  
Programs: Superfund  
Location Type: Private  
NPL Site: Y  
NPL Status: Final  
Media Detected: GW  
Health Advisory: N  
DW Response: -  
Latitude: 42.528056  
Longitude: -71.153889  
EJSCREEN Report: [https://ejscreen.epa.gov/mapper/mobile/EJSCREEN\\_mobile.aspx?geometry=%7B%22x%22:-71.153889,%22y%22:42.528056,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1](https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%7B%22x%22:-71.153889,%22y%22:42.528056,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1)

**ASBESTOS:**

Name: OLIN CORPORATION  
Address: 51 EAMES STREET  
City,State,Zip: WILMINGTON, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 10/14/2014  
End Date: 10/24/2014  
Date Entered: Not reported  
Entry Date: 09/26/2014  
Quantity Material Removed SF: 2400.00  
Quantity Material Removed LF: .00  
Project Description: Trwl  
AR Tracking ID: 198986  
Super Lic Number: AS032488  
Monitor Lic Number: Not reported  
Lab Lic Number: AA000145  
Year: 2014  
Sticker Number: 100208395  
Form Type: ANF-001

Map ID  
Direction  
Distance  
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MAP FINDINGS

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Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Fee Status: HUNDRED  
Facility Phone: 9786586121  
Sub Town: Not reported  
Worksite: EXTERIOR TANK  
Occupied: -1  
Contractor: AC000392  
Contract Type: WRITTEN  
Hours: 7AM-3PM  
Project Type: Renv  
Abatement Process: Fcontain  
Location: OUTDOORS  
Decon Process: 3 STAGE DECON WITH SHOWER STATION.  
Disposal Methods: DOUBLE BAGGED AND/OR FIBER DRUM; CONSOLIDATED AT PREMISES, FINAL DISPOSAL.  
Facility Usage: MANUFACTURING  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: 0  
Owner Name: OLIN CORPORATION  
Owner Address: 3855 NORTH OCOEE STREET  
Owner City: CLEVELAND  
Owner State: MA  
On Site Manager Name: BRIAN GUICHARD  
On Site Manager Phone: 9786586121  
Ins Comp: CHARTIS  
Policy Number: WC06771270  
EXP Date: 7/1/2015  
Facility Size: 0  
Transporter Name: NORTHEAST REMEDIATION  
Transporter Address: 25 STOREY AVENUE # 256  
Transporter City: NEWBURYPORT  
Transporter State: MA  
Final Site: Not reported  
Certified Name: WENDY CARIAS  
Cert Sign Date: 09/26/2014  
Certified Company: NER  
Certified Phone: 6173899188  
Entered\_by: NORTHEAST

**Financial Assurance 3:**

Name: OLIN CORP  
Address: 51 EAMES ST  
City, State, Zip: WILMINGTON, MA  
Facility ID: 131605  
Region: 3  
Region Area: NE  
Facility Name: OLIN CORP  
FAM Infomation: Not reported  
FAM Information Note: Not reported  
Class Type: CLF  
Class Description: Closed Landfill with Env Monitoring Required  
ACF Amount: 1400  
Exempt: N  
RO #: 313063

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**OLIN CHEMICAL (Continued)**

**1000304514**

HW GEN:

Name: OLIN CHEMICAL SUPERFUND SITE  
Address: 51 EAMES ST  
City,State,Zip: WILMINGTON, MA 01887  
EPA Id: MAD001403104  
RCRA Generator Status: LQG  
State Generator Status: VQG-MA

Manifest Details:

Year: 2008  
Manifest Number: 002762846JJK  
Manifest Type: TSD Copy  
Generator EPA Id: MAD001403104  
Generator Date: 01/08/2008  
Mailing Address: Not reported  
Mailing City,St,Zip: Not reported  
Contact Name: Not reported  
Contact Phone: 508-658-6121  
TSD EPA Id: PAD000736942  
TSD Date: Not reported  
TSD Facility Name: CALGON CARBON CORP  
TSD Facility Address: 200 NEVILLE ROAD  
TSD Facility City: NEVILLE ISLAND  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 1  
Waste Number: U028  
Container Number: 1  
Container Type: Portable tanks  
Waste Quantity: 4000  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: Not reported  
Date TSP Sig: Not reported

Year: 2008  
Manifest Number: 002762849JJK  
Manifest Type: TSD Copy  
Generator EPA Id: MAD001403104  
Generator Date: 11/12/2008  
Mailing Address: Not reported  
Mailing City,St,Zip: Not reported  
Contact Name: Not reported  
Contact Phone: 508-658-6121  
TSD EPA Id: PAD000736942  
TSD Date: Not reported  
TSD Facility Name: CALGON CARBON CORP  
TSD Facility Address: 200 NEVILLE ROAD  
TSD Facility City: NEVILLE ISLAND  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 1  
Waste Number: U028  
Container Number: 1



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MAP FINDINGS

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Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Container Type: Portable tanks  
Waste Quantity: 4000  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: Not reported  
Date TSP Sig: Not reported

Year: 2006  
Manifest Number: PAG454455  
Manifest Type: TSD Copy  
Generator EPA Id: MAD001403104  
Generator Date: 04/25/2006  
Mailing Address: Not reported  
Mailing City,St,Zip: Not reported  
Contact Name: Not reported  
Contact Phone: Not reported  
TSD EPA Id: PAD000736942  
TSD Date: Not reported  
TSD Facility Name: CALGON CARBON CORP  
TSD Facility Address: 200 NEVILLE ROAD  
TSD Facility City: NEVILLE ISLAND  
TSD Facility State: PA  
Facility Telephone: 508-658-6121  
Page Number: 1  
Line Number: 1  
Waste Number: U028  
Container Number: 1  
Container Type: Portable tanks  
Waste Quantity: 4000  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: Not reported  
Date TSP Sig: Not reported

Year: 2006  
Manifest Number: PAG454445  
Manifest Type: TSD Copy  
Generator EPA Id: MAD001403104  
Generator Date: 06/21/2006  
Mailing Address: Not reported  
Mailing City,St,Zip: Not reported  
Contact Name: Not reported  
Contact Phone: Not reported  
TSD EPA Id: PAD000736942  
TSD Date: Not reported  
TSD Facility Name: CALGON CARBON CORP  
TSD Facility Address: 200 NEVILLE ROAD  
TSD Facility City: NEVILLE ISLAND  
TSD Facility State: PA  
Facility Telephone: 508-658-6121  
Page Number: 1  
Line Number: 1  
Waste Number: U028  
Container Number: 1  
Container Type: Portable tanks  
Waste Quantity: 4000  
Unit: Pounds

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Handling Code: Not reported  
TSP EPA Id: Not reported  
Date TSP Sig: Not reported

Year: 2006  
Manifest Number: PAG454444  
Manifest Type: TSD Copy  
Generator EPA Id: MAD001403104  
Generator Date: 01/31/2006  
Mailing Address: Not reported  
Mailing City,St,Zip: Not reported  
Contact Name: Not reported  
Contact Phone: Not reported  
TSD EPA Id: PAD000736942  
TSD Date: Not reported  
TSD Facility Name: CALGON CARBON CORP  
TSD Facility Address: 200 NEVILLE ROAD  
TSD Facility City: NEVILLE ISLAND  
TSD Facility State: PA  
Facility Telephone: 508-658-6121  
Page Number: 1  
Line Number: 1  
Waste Number: U028  
Container Number: 1  
Container Type: Portable tanks  
Waste Quantity: 4000  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: Not reported  
Date TSP Sig: Not reported

Year: 2006  
Manifest Number: PAG454448  
Manifest Type: TSD Copy  
Generator EPA Id: MAD001403104  
Generator Date: 08/22/2006  
Mailing Address: Not reported  
Mailing City,St,Zip: Not reported  
Contact Name: Not reported  
Contact Phone: Not reported  
TSD EPA Id: PAD000736942  
TSD Date: Not reported  
TSD Facility Name: CALGON CARBON CORP  
TSD Facility Address: 200 NEVILLE ROAD  
TSD Facility City: NEVILLE ISLAND  
TSD Facility State: PA  
Facility Telephone: 508-658-6121  
Page Number: 1  
Line Number: 1  
Waste Number: U028  
Container Number: 1  
Container Type: Portable tanks  
Waste Quantity: 4000  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: Not reported  
Date TSP Sig: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLIN CHEMICAL (Continued)**

**1000304514**

Year: 2005  
Manifest Number: PAG454457  
Manifest Type: TSD Copy  
Generator EPA Id: MAD001403104  
Generator Date: 03/11/2005  
Mailing Address: 51 EAMES ST  
Mailing City,St,Zip: WILMINGTON, MA 01887  
Contact Name: DONALD W CAMERON  
Contact Phone: 508-658-6121  
TSD EPA Id: PAD000736942  
TSD Date: 03/15/2005  
TSD Facility Name: CALGON CARBON CORP  
TSD Facility Address: 200 NEVILLE RD  
TSD Facility City: NEVILLE ISLAND  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 1  
Waste Number: U028  
Container Number: 1  
Container Type: Portable tanks  
Waste Quantity: 4000  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: NYD980769947  
Date TSP Sig: 03/11/2005

Year: 2005  
Manifest Number: PAG454458  
Manifest Type: TSD Copy  
Generator EPA Id: MAD001403104  
Generator Date: 01/10/2005  
Mailing Address: 51 EAMES ST  
Mailing City,St,Zip: WILMINGTON, MA 01887  
Contact Name: DONALD W CAMERON  
Contact Phone: 508-658-6121  
TSD EPA Id: PAD000736942  
TSD Date: 01/12/2005  
TSD Facility Name: CALGON CARBON CORP  
TSD Facility Address: 200 NEVILLE RD  
TSD Facility City: NEVILLE ISLAND  
TSD Facility State: PA  
Facility Telephone: Not reported  
Page Number: 1  
Line Number: 1  
Waste Number: U028  
Container Number: 1  
Container Type: Portable tanks  
Waste Quantity: 4000  
Unit: Pounds  
Handling Code: Not reported  
TSP EPA Id: NYD980769947  
Date TSP Sig: 01/10/2005

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

5  
SW  
1/4-1/2  
0.397 mi.  
2098 ft.

**NO LOCATION AID**  
**25 ROCKY HILL RD**  
**BURLINGTON, MA 01803**

**MA SHWS** **S105200029**  
**MA RELEASE** **N/A**

**Relative:**  
**Lower**  
**Actual:**  
**135 ft.**

**SHWS:**  
Name: NO LOCATION AID  
Address: 25 ROCKY HILL RD  
City,State,Zip: BURLINGTON, MA 018030000  
Facility ID: 3-0021081  
Source Type: CONTAINERS  
Release Town: BURLINGTON  
Notification Date: 09/13/2001  
Category: TWO HR  
Associated ID: Not reported  
Current Status: RAO  
Status Date: 01/11/2002  
Phase: Not reported  
Response Action Outcome: A1  
Oil Or Haz Material: Hazardous Material

**Release:**  
Name: NO LOCATION AID  
Address: 25 ROCKY HILL RD  
City,State,Zip: BURLINGTON, MA 018030000  
Release Tracking Number/Current Status: 3-0021081 / RAO  
Primary ID: Not reported  
Official City: BURLINGTON  
Notification: 09/13/2001  
Category: TWO HR  
Status Date: 01/11/2002  
Phase: Not reported  
Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.  
Oil / Haz Material Type: Hazardous Material

Click here to access the MA DEP site for this facility:

**Actions:**  
Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 1/11/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.  
  
Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 1/11/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.  
  
Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 1/11/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S105200029**

Action Type: Immediate Response Action  
Action Status: Imminent Hazard Evaluation Received  
Action Date: 1/11/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 11/13/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 11/13/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 11/6/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action  
Action Status: IRA Conducted Prior to Notification  
Action Date: 9/13/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 9/13/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 9/14/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemicals:  
Chemical: SODIUM HYPOCHLORITE  
Quantity: 50 pounds  
Chemical: CALCIUM HYPOCHLORITE  
Quantity: 9 pounds  
Location Type: COMMERCIAL  
Location Type: MUNICIPAL  
Source: CONTAINERS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

6  
WNW  
1/2-1  
0.619 mi.  
3270 ft.

**RESIDENCE**  
**120 WILMINGTON ROAD**  
**BURLINGTON, MA 01803**

**MA SHWS** S113805117  
**MA LUST** N/A  
**MA RELEASE**  
**MA ASBESTOS**  
**MA ENF**

**Relative:**  
**Lower**

SHWS:

**Actual:**  
**114 ft.**

Name: RESIDENCE  
Address: 120 WILMINGTON ROAD  
City,State,Zip: BURLINGTON, MA 018030000  
Facility ID: 3-0031611  
Source Type: TANK  
Release Town: BURLINGTON  
Notification Date: 06/27/2013  
Category: 72 HR  
Associated ID: Not reported  
Current Status: RAO  
Status Date: 09/17/2013  
Phase: Not reported  
Response Action Outcome: B1  
Oil Or Haz Material: Oil

LUST:

Facility:

Name: RESIDENCE  
Address: 120 WILMINGTON ROAD  
City,State,Zip: BURLINGTON, MA 018030000  
**Current Status: Response Action Outcome**  
Release Tracking Number/Current Status: 3-0031611 / RAO  
Status Date: 09/17/2013  
Source Type: UST  
Release Town: BURLINGTON  
Notification Date: 06/27/2013  
Category: 72 HR  
Associated ID: Not reported  
Phase: Not reported  
Response Action Outcome: B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.  
Oil Or Haz Material: Oil  
  
Location Type: RESIDENTIAL  
Source: TANK  
Source: UST

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical: GASOLINE  
Quantity: 1207 parts per million

Actions:

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 6/27/2013  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RESIDENCE (Continued)**

**S113805117**

Action Type: Immediate Response Action  
Action Status: IRA Assessment Only  
Action Date: 6/27/2013  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 7/11/2013  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Compliance and Enforcement Action  
Action Status: Interim Deadline Letter Issued  
Action Date: 7/11/2013  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 9/17/2013  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 9/4/2013  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNFE  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 9/4/2013  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Release:  
Name: RESIDENCE  
Address: 120 WILMINGTON ROAD  
City, State, Zip: BURLINGTON, MA 018030000  
Release Tracking Number/Current Status: 3-0031611 / RAO  
Primary ID: Not reported  
Official City: BURLINGTON  
Notification: 06/27/2013  
Category: 72 HR  
Status Date: 09/17/2013  
Phase: Not reported  
Response Action Outcome: B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.  
Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

Actions:  
Action Type: Release Disposition

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RESIDENCE (Continued)**

**S113805117**

Action Status: Reportable Release under MGL 21E  
Action Date: 6/27/2013  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Immediate Response Action  
Action Status: IRA Assessment Only  
Action Date: 6/27/2013  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 7/11/2013  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Compliance and Enforcement Action  
Action Status: Interim Deadline Letter Issued  
Action Date: 7/11/2013  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 9/17/2013  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 9/4/2013  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNFE  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 9/4/2013  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Chemicals:  
Chemical: GASOLINE  
Quantity: 1207 parts per million  
Location Type: RESIDENTIAL  
Source: TANK  
Source: UST

ASBESTOS:  
Name: VACANT RESIDENCE  
Address: 120 WILMINGTON ROAD  
City,State,Zip: BURLINGTON, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 06/05/2012



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RESIDENCE (Continued)**

**S113805117**

End Date: 06/05/2012  
Date Entered: Not reported  
Entry Date: 05/17/2012  
Quantity Material Removed SF: 800.00  
Quantity Material Removed LF: .00  
Project Description: Insl,Trns  
AR Tracking ID: 157743  
Super Lic Number: AS030091  
Monitor Lic Number: AM061044  
Lab Lic Number: AA000144  
Year: 2012  
Sticker Number: 100148579  
Form Type: ANF-001  
Fee Status: Fifty  
Facility Phone: 9787499844  
Sub Town: Not reported  
Worksite: RESIDENCE  
Occupied: 0  
Contractor: AC000197  
Contract Type: WRITTEN  
Hours: Week days: 7AM-3:30PM Week end:  
Project Type: Renv  
Abatement Process: Fcontain  
Location: Indoors  
Decon Process: 3 CHAMBER DECON  
Disposal Methods: ALL METHODS WILL COMPLY  
Facility Usage: RESIDENCE  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: 5  
Owner Name: KEVIN O'BRIEN  
Owner Address: 18 CASSIMERE STREET  
Owner City: ANDOVER, MA  
Owner State: MA  
On Site Manager Name: Not reported  
On Site Manager Phone: Not reported  
Ins Comp: Not reported  
Policy Number: Not reported  
EXP Date: Not reported  
Facility Size: Not reported  
Transporter Name: A-BEST ABATEMENT INC  
Transporter Address: 24 KEEWAYDIN DRIVE  
Transporter City: SALEM, NH  
Transporter State: Not reported  
Final Site: 39  
Certified Name: SAM HOMSEY  
Cert Sign Date: 05/17/2012  
Certified Company: A-BEST ABATEMENT  
Certified Phone: 6038934696  
Entered\_by: Not reported  
  
Name: JACKIE AMPOLOS  
Address: 120 WILMINGTON ROAD  
City,State,Zip: BURLINGTON, MA  
Notification: Not reported  
DEP Region: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RESIDENCE (Continued)**

**S113805117**

Notifiers Name: Not reported  
Start Date: 03/26/2013  
End Date: 03/26/2013  
Date Entered: Not reported  
Entry Date: 03/20/2013  
Quantity Material Removed SF: 400.00  
Quantity Material Removed LF: .00  
Project Description: Trns  
AR Tracking ID: 170737  
Super Lic Number: AS032802  
Monitor Lic Number: AM060297  
Lab Lic Number: AA000131  
Year: 2013  
Sticker Number: 100174170  
Form Type: ANF-001  
Fee Status: Exempt  
Facility Phone: Not reported  
Sub Town: Not reported  
Worksite: 2 BEDROOMS ON FIRST FLOOR  
Occupied: -1  
Contractor: AC000112  
Contract Type: WRITTEN  
Hours: Week days: 8AM-5PM Week end:  
Project Type: Renv  
Abatement Process: Fcontain  
Location: Indoors  
Decon Process: CONTAINMENT BARRIER WITH CLEAN ROOM USING NEGATIVE AIR SYSTEM AND HEPA  
Disposal Methods: WET ASBESTOS PROPERLY SEALED IN SIX MIL POLY BAGS PLACARDED FOR ASBESTOS  
  
Facility Usage: RESIDENTIAL DWELLING  
Waiver Given: Not reported  
DEP Waiver Number: 1303926  
DLWD Waiver Number: 5992-2013  
Small Owner Occ: 4  
Owner Name: SAME  
Owner Address: Not reported  
Owner City: Not reported  
Owner State: MA  
On Site Manager Name: Not reported  
On Site Manager Phone: Not reported  
Ins Comp: Not reported  
Policy Number: Not reported  
EXP Date: Not reported  
Facility Size: Not reported  
Transporter Name: Not reported  
Transporter Address: Not reported  
Transporter City: Not reported  
Transporter State: Not reported  
Final Site: 18  
Certified Name: SAM NIGRO  
Cert Sign Date: 03/20/2013  
Certified Company: DUDLEY SERVICES INC.  
Certified Phone: Not reported  
Entered\_by: Not reported  
  
Name: VACANT RESIDENCE  
Address: 120 WILMINGTON ROAD

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RESIDENCE (Continued)**

**S113805117**

City,State,Zip: BURLINGTON, MA  
Notification: Not reported  
DEP Region: Not reported  
Notifiers Name: Not reported  
Start Date: 03/19/2012  
End Date: 03/27/2012  
Date Entered: Not reported  
Entry Date: 03/02/2012  
Quantity Material Removed SF: 800.00  
Quantity Material Removed LF: .00  
Project Description: Insl,Trns  
AR Tracking ID: 154574  
Super Lic Number: AS030091  
Monitor Lic Number: AM061044  
Lab Lic Number: AA000144  
Year: 2012  
Sticker Number: 100143666  
Form Type: ANF-001  
Fee Status: Fifty  
Facility Phone: 9787499844  
Sub Town: Not reported  
Worksite: RESIDENCE  
Occupied: 0  
Contractor: AC000197  
Contract Type: WRITTEN  
Hours: Week days: 7AM-3:30PM Week end:  
Project Type: Renv  
Abatement Process: Fcontain  
Location: Indoors  
Decon Process: 3 CHAMBER DECON  
Disposal Methods: ALL METHODS WILL COMPLY  
Facility Usage: RESIDENCE  
Waiver Given: Not reported  
DEP Waiver Number: Not reported  
DLWD Waiver Number: Not reported  
Small Owner Occ: 5  
Owner Name: VACANT RESIDENCE  
Owner Address: 120 WILMINGTON ROAD  
Owner City: BURLINGTON, MA  
Owner State: MA  
On Site Manager Name: Not reported  
On Site Manager Phone: Not reported  
Ins Comp: Not reported  
Policy Number: Not reported  
EXP Date: Not reported  
Facility Size: Not reported  
Transporter Name: A-BEST ABATEMENT INC  
Transporter Address: 24 KEEWAYDIN DRIVE  
Transporter City: SALEM, NH  
Transporter State: Not reported  
Final Site: 39  
Certified Name: SAM HOMSEY  
Cert Sign Date: 03/02/2012  
Certified Company: A-BEST ABATEMENT  
Certified Phone: 6038934696  
Entered\_by: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

RESIDENCE (Continued)

S113805117

ENFORCEMENT:  
Name: AMPOLOS, JACKIE  
Address: 120 WILMINGTON ROAD  
City,State,Zip: BURLINGTON, MA 018030000  
Region: NERO  
DEP Region: NERO  
DEP Program: 3c  
DEP Bureau: BWSC  
Program: BWSC  
Program Id: 3-0031611  
High Or Low Level Enforcement: LLE  
FMF #: 0  
Town Where Violation Occurred: BURLINGTON  
Date Executed: 07/11/2013  
ENF #: Faux Enf- 2251  
Document Type: IDL  
AG Ref (Y/N): Not reported  
Doc Archived (Y/N): Not reported  
EJ Community (Y/N): YES  
Regional Comment: Not reported  
Final Payment Due Date: Not reported  
ACOP \$: Not reported  
PAN \$: Not reported  
EMS (Y/N): Not reported  
EMS\$: Not reported  
SEP (Y/N): Not reported  
SEP \$: Not reported  
Demand \$: Not reported  
Suspended \$: Not reported  
Ownership: Individually Owned

7  
ENE  
1/2-1  
0.740 mi.  
3907 ft.

NO LOCATION AID  
96 CHESTNUT ST  
WILMINGTON, MA 01887

MA SHWS S104482426  
MA RELEASE N/A

Relative:  
Lower  
Actual:  
111 ft.

SHWS:  
Name: NO LOCATION AID  
Address: 96 CHESTNUT ST  
City,State,Zip: WILMINGTON, MA 018870000  
Facility ID: 3-0019045  
Source Type: PIPE  
Release Town: WILMINGTON  
Notification Date: 12/07/1999  
Category: TWO HR  
Associated ID: Not reported  
Current Status: RAO  
Status Date: 11/15/2000  
Phase: Not reported  
Response Action Outcome: A2  
Oil Or Haz Material: Oil

Release:  
Name: NO LOCATION AID  
Address: 96 CHESTNUT ST  
City,State,Zip: WILMINGTON, MA 018870000



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S104482426**

Release Tracking Number/Current Status: 3-0019045 / RAO  
Primary ID: Not reported  
Official City: WILMINGTON  
Notification: 12/07/1999  
Category: TWO HR  
Status Date: 11/15/2000  
Phase: Not reported  
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.  
Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

**Actions:**

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 1/14/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 11/15/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: Fee Received - FMCRA Use Only  
Action Date: 11/16/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 12/10/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Oral Approval of Plan or Action  
Action Date: 12/13/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 12/7/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: FLDISS  
Action Date: 12/7/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S104482426**

Action Status: Oral Approval of Plan or Action  
Action Date: 12/7/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FLDD1A  
Action Date: 12/7/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 12/7/1999  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 2/25/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Written Plan Received  
Action Date: 2/25/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:  
Chemical: FUEL OIL #2  
Quantity: Not reported  
Chemical: FUEL OIL #2  
Quantity: 11 gallons  
Location Type: RESIDENTIAL  
Source: PIPE

**8**  
**WSW**  
**1/2-1**  
**0.796 mi.**  
**4204 ft.**

**SCHILL RESIDENCE**  
**15 CUTTING LANE**  
**BURLINGTON, MA 01803**

**MA SHWS S116358018**  
**MA RELEASE N/A**

**Relative:**  
**Lower**  
**Actual:**  
**162 ft.**

SHWS:  
Name: SCHILL RESIDENCE  
Address: 15 CUTTING LANE  
City,State,Zip: BURLINGTON, MA 018030000  
Facility ID: 3-0031971  
Source Type: UNKNOWN  
Release Town: BURLINGTON  
Notification Date: 01/31/2014  
Category: 120 DY  
Associated ID: Not reported  
Current Status: RAO  
Status Date: 03/28/2014  
Phase: Not reported  
Response Action Outcome: B1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SCHILL RESIDENCE (Continued)**

**S116358018**

Oil Or Haz Material: Oil and Hazardous Material

Release:

Name: SCHILL RESIDENCE  
Address: 15 CUTTING LANE  
City,State,Zip: BURLINGTON, MA 018030000  
Release Tracking Number/Current Status: 3-0031971 / RAO  
Primary ID: Not reported  
Official City: BURLINGTON  
Notification: 01/31/2014  
Category: 120 DY  
Status Date: 03/28/2014  
Phase: Not reported  
Response Action Outcome: B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.  
Oil / Haz Material Type: Oil and Hazardous Material

[Click here to access the MA DEP site for this facility:](#)

Actions:

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 1/31/2014  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 1/31/2014  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNFE  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 1/31/2014  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 2/21/2014  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 3/28/2014  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 7/30/2014  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SCHILL RESIDENCE (Continued)**

**S116358018**

Chemicals:  
 Chemical: C9-C18 ALIPHATIC HYDROCARBONS  
 Quantity: 2900 milligrams per kilogram  
 Chemical: 2-METHYLNAPHTHALENE  
 Quantity: 2.7 milligrams per kilogram  
 Chemical: C11 THRU C22 AROMATIC HYDROCARBONS  
 Quantity: 1300 milligrams per kilogram  
 Source: UNKNOWN

**9  
 NE  
 1/2-1  
 0.805 mi.  
 4253 ft.**

**WILMINGTON GEO RES AX  
 WILMINGTON, MA**

**FUDS 1024899880  
 N/A**

**Relative:  
 Lower  
 Actual:  
 115 ft.**

FUDS:  
 EPA Region: 01  
 Installation ID: MA19799F192100  
 Congressional District Number: 6  
 Name: WILMINGTON GEO RES AX  
 FUDS Number: D01MA0293  
 City: WILMINGTON  
 State: MA  
 County: MIDDLESEX  
 Object ID: 9438  
 USACE Division: NAD  
 USACE District: New England District (NAE)  
 Status: Properties without projects  
 Current Owner: LOCAL: CITY MUNICIPALITY  
 EMS Map Link: <https://fudsportal.usace.army.mil/ems/inventory/map?id=56854>  
 Eligibility: Eligible  
 Has Projects: No  
 NPL Status: Not reported  
 Project Required: No  
 Feature Description: A map of military origin confirms DOD use. The property consists of 0.59 acres, and was used by the Air Force for meteorological field studies. The Air Force installed 1,000 feet of pipe and a 4ft square instrument shelter on the site. Electrical and telephone utilities were also provided. As of the 1994 FDE, the property was owned by the Town of Wilmington for use as a town pumping station.  
 Latitude: 42.53833333  
 Longitude: -71.17638889

**B10  
 SSW  
 1/2-1  
 0.922 mi.  
 4868 ft.**

**RESIDENTIAL PROPERTY  
 19 SKILTON LN  
 BURLINGTON, MA 01803  
 Site 1 of 2 in cluster B**

**MA SHWS S107678245  
 MA LUST N/A  
 MA RELEASE  
 MA ENF**

**Relative:  
 Lower  
 Actual:  
 141 ft.**

SHWS:  
 Name: RESIDENTIAL PROPERTY  
 Address: 19 SKILTON LN  
 City,State,Zip: BURLINGTON, MA 018030000  
 Facility ID: 3-0025779  
 Source Type: PIPE  
 Release Town: BURLINGTON



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RESIDENTIAL PROPERTY (Continued)**

**S107678245**

Notification Date: 03/30/2006  
Category: 72 HR  
Associated ID: Not reported  
Current Status: RAO  
Status Date: 12/19/2012  
Phase: Not reported  
Response Action Outcome: A2  
Oil Or Haz Material: Oil

**LUST:**

**Facility:**

Name: RESIDENTIAL PROPERTY  
Address: 19 SKILTON LN  
City, State, Zip: BURLINGTON, MA 018030000  
**Current Status: Response Action Outcome**  
Release Tracking Number/Current Status: 3-0025779 / RAO  
Status Date: 12/19/2012  
Source Type: UST  
Release Town: BURLINGTON  
Notification Date: 03/30/2006  
Category: 72 HR  
Associated ID: Not reported  
Phase: Not reported  
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.  
Oil Or Haz Material: Oil  
  
Location Type: RESIDENTIAL  
Source: PIPE  
Source: UST

[Click here to access the MA DEP site for this facility:](#)

**Chemicals:**

Chemical: #2 FUEL OIL  
Quantity: 298 parts per million  
Chemical: FUEL OIL #2  
Quantity: 100 parts per million

**Actions:**

Action Type: Compliance and Enforcement Action  
Action Status: Notice of Enforcement Conference  
Action Date: 1/24/2011  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.  
  
Action Type: Compliance and Enforcement Action  
Action Status: CILS  
Action Date: 1/8/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.  
  
Action Type: Compliance and Enforcement Action  
Action Status: Interim Deadline Letter Issued

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RESIDENTIAL PROPERTY (Continued)**

**S107678245**

Action Date: 1/8/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 11/8/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action - DEP Lead  
Action Status: Completion Statement Received  
Action Date: 12/19/2012  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RAO - DEP Lead  
Action Status: RAO Statement Received  
Action Date: 12/19/2012  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: ALSSENT  
Action Date: 2/12/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 2/21/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: FTLI  
Action Status: APPREC  
Action Date: 3/23/2011  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 3/30/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Oral Approval of Plan or Action  
Action Date: 3/30/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.  
Action Date: 4/14/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RESIDENTIAL PROPERTY (Continued)**

**S107678245**

Action Type: FTLI  
Action Status: APPACC  
Action Date: 4/20/2011  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Oral Approval of a Modified Plan  
Action Date: 4/26/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 4/26/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: FTLI  
Action Status: Action Status or AUL Terminated  
Action Date: 4/30/2013  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Compliance and Enforcement Action  
Action Status: Notice of Non-Compliance Issued  
Action Date: 5/5/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: FTLI  
Action Status: APPREC  
Action Date: 6/11/2012  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Compliance and Enforcement Action  
Action Status: Notice of Non-Compliance Issued  
Action Date: 6/8/2010  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: FTLI  
Action Status: APPACC  
Action Date: 7/11/2012  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 7/13/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Written Plan Received  
Action Date: 7/13/2006

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RESIDENTIAL PROPERTY (Continued)**

**S107678245**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Oral Approval of a Modified Plan  
Action Date: 7/18/2006

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 7/26/2006

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Compliance and Enforcement Action  
Action Status: NOFENF  
Action Date: 8/1/2007

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 8/1/2007

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Compliance and Enforcement Action  
Action Status: Notice of Enforcement Conference  
Action Date: 8/1/2007

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

**Release:**

Name: RESIDENTIAL PROPERTY  
Address: 19 SKILTON LN  
City,State,Zip: BURLINGTON, MA 018030000  
Release Tracking Number/Current Status: 3-0025779 / RAO  
Primary ID: Not reported  
Official City: BURLINGTON  
Notification: 03/30/2006  
Category: 72 HR  
Status Date: 12/19/2012  
Phase: Not reported

Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.

Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

**Actions:**

Action Type: Compliance and Enforcement Action  
Action Status: Notice of Enforcement Conference  
Action Date: 1/24/2011

Response Action Outcome: A permanent solution has been achieved. Contamination has not been



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RESIDENTIAL PROPERTY (Continued)**

**S107678245**

reduced to background.

Action Type: Compliance and Enforcement Action  
Action Status: CILS  
Action Date: 1/8/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Compliance and Enforcement Action  
Action Status: Interim Deadline Letter Issued  
Action Date: 1/8/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 11/8/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action - DEP Lead  
Action Status: Completion Statement Received  
Action Date: 12/19/2012  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RAO - DEP Lead  
Action Status: RAO Statement Received  
Action Date: 12/19/2012  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: ALSENT  
Action Date: 2/12/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 2/21/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: FTLI  
Action Status: APPREC  
Action Date: 3/23/2011  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 3/30/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RESIDENTIAL PROPERTY (Continued)**

**S107678245**

Action Status:	Oral Approval of Plan or Action
Action Date:	3/30/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	4/14/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	FTLI
Action Status:	APPACC
Action Date:	4/20/2011
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Oral Approval of a Modified Plan
Action Date:	4/26/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	4/26/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	FTLI
Action Status:	Action Status or AUL Terminated
Action Date:	4/30/2013
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Compliance and Enforcement Action
Action Status:	Notice of Non-Compliance Issued
Action Date:	5/5/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	FTLI
Action Status:	APPREC
Action Date:	6/11/2012
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Compliance and Enforcement Action
Action Status:	Notice of Non-Compliance Issued
Action Date:	6/8/2010
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	FTLI
Action Status:	APPACC
Action Date:	7/11/2012
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RESIDENTIAL PROPERTY (Continued)**

**S107678245**

reduced to background.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 7/13/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Written Plan Received  
Action Date: 7/13/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Oral Approval of a Modified Plan  
Action Date: 7/18/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 7/26/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Compliance and Enforcement Action  
Action Status: NOFENF  
Action Date: 8/1/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 8/1/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Compliance and Enforcement Action  
Action Status: Notice of Enforcement Conference  
Action Date: 8/1/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:  
Chemical: #2 FUEL OIL  
Quantity: 298 parts per million  
Chemical: FUEL OIL #2  
Quantity: 100 parts per million  
Location Type: RESIDENTIAL  
Source: PIPE  
Source: UST

ENFORCEMENT:  
Name: CUSTANCE, PHILIP  
Address: 19 SKILTON LN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RESIDENTIAL PROPERTY (Continued)**

**S107678245**

City,State,Zip: BURLINGTON, MA 018030000  
Region: NERO  
DEP Region: NERO  
DEP Program: 3a  
DEP Bureau: BWSC  
Program: BWSC  
Program Id: 3-0025779  
High Or Low Level Enforcement: LLE  
FMF #: 0  
Town Where Violation Occurred: Not reported  
Date Executed: 06/08/2010  
ENF #: NON-NE-10-3A051  
Document Type: NON  
AG Ref (Y/N): Not reported  
Doc Archived (Y/N): Not reported  
EJ Community (Y/N): Not reported  
Regional Comment: Not reported  
Final Payment Due Date: Not reported  
ACOP \$: Not reported  
PAN \$: Not reported  
EMS (Y/N): Not reported  
EMS\$: Not reported  
SEP (Y/N): Not reported  
SEP \$: Not reported  
Demand \$: Not reported  
Suspended \$: Not reported  
Ownership: Individually Owned

Name: CUSTANCE, PHILIP  
Address: 19 SKILTON LN  
City,State,Zip: BURLINGTON, MA 018030000  
Region: NERO  
DEP Region: NERO  
DEP Program: 3c  
DEP Bureau: BWSC  
Program: BWSC  
Program Id: 3-0025779  
High Or Low Level Enforcement: LLE  
FMF #: 0  
Town Where Violation Occurred: Not reported  
Date Executed: 01/08/2008  
ENF #: Faux Enf- 0504  
Document Type: IDL  
AG Ref (Y/N): Not reported  
Doc Archived (Y/N): Not reported  
EJ Community (Y/N): Not reported  
Regional Comment: Not reported  
Final Payment Due Date: Not reported  
ACOP \$: Not reported  
PAN \$: Not reported  
EMS (Y/N): Not reported  
EMS\$: Not reported  
SEP (Y/N): Not reported  
SEP \$: Not reported  
Demand \$: Not reported  
Suspended \$: Not reported  
Ownership: Individually Owned



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

RESIDENTIAL PROPERTY (Continued)

S107678245

Name: CUSTANCE, PHILIP  
Address: 19 SKILTON LN  
City,State,Zip: BURLINGTON, MA 018030000  
Region: NERO  
DEP Region: NERO  
DEP Program: 3a  
DEP Bureau: BWSC  
Program: BWSC  
Program Id: 3-0025779  
High Or Low Level Enforcement: LLE  
FMF #: 0  
Town Where Violation Occurred: Not reported  
Date Executed: 05/05/2007  
ENF #: NON-NE-07-3A057  
Document Type: NON  
AG Ref (Y/N): Not reported  
Doc Archived (Y/N): Not reported  
EJ Community (Y/N): Not reported  
Regional Comment: Not reported  
Final Payment Due Date: Not reported  
ACOP \$: Not reported  
PAN \$: Not reported  
EMS (Y/N): Not reported  
EM\$: Not reported  
SEP (Y/N): Not reported  
SEP \$: Not reported  
Demand \$: Not reported  
Suspended \$: Not reported  
Ownership: Individually Owned

11  
NNW  
1/2-1  
0.945 mi.  
4992 ft.

CORNER OF CLINTON AND LINCOLN STS  
2 CLINTON ST  
WILMINGTON, MA 01887

MA SHWS S106344040  
MA RELEASE N/A

Relative:  
Lower  
Actual:  
116 ft.

SHWS:  
Name: CORNER OF CLINTON AND LINCOLN STS  
Address: 2 CLINTON ST  
City,State,Zip: WILMINGTON, MA 018870000  
Facility ID: 3-0023625  
Source Type: UNKNOWN  
Release Town: WILMINGTON  
Notification Date: 02/22/2004  
Category: TWO HR  
Associated ID: Not reported  
Current Status: RAO  
Status Date: 03/20/2006  
Phase: Not reported  
Response Action Outcome: A1  
Oil Or Haz Material: Oil

Release:  
Name: CORNER OF CLINTON AND LINCOLN STS  
Address: 2 CLINTON ST  
City,State,Zip: WILMINGTON, MA 018870000  
Release Tracking Number/Current Status: 3-0023625 / RAO

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORNER OF CLINTON AND LINCOLN STS (Continued)**

**S106344040**

Primary ID: Not reported  
Official City: WILMINGTON  
Notification: 02/22/2004  
Category: TWO HR  
Status Date: 03/20/2006  
Phase: Not reported  
Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.  
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

Actions:

Action Type: RLFA  
Action Status: FLDDO  
Action Date: 2/22/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 2/22/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Status: FOLFLD  
Action Date: 2/23/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action - DEP Lead  
Action Status: Oral Approval of Plan or Action  
Action Date: 2/23/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 3/15/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 3/20/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RAO - DEP Lead  
Action Status: RAO Statement Received  
Action Date: 3/20/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CORNER OF CLINTON AND LINCOLN STS (Continued)**

**S106344040**

Action Date: 3/20/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Status: FOLFLD  
Action Date: 4/1/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Status: FOLFLD  
Action Date: 4/16/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 4/2/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 4/26/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: DEPRET  
Action Date: 5/24/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Status: FOLFLD  
Action Date: 5/4/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Status: FLDDO  
Action Date: 6/25/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemicals:  
Chemical: #2 FUEL OIL  
Quantity: 30 gallons  
Location Type: RESIDENTIAL  
Source: UNKNOWN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**B12** NO LOCATION AID  
**SSW** 4 BROOKFIELD RD  
**1/2-1** BURLINGTON, MA 01803  
**0.961 mi.**  
**5072 ft.** Site 2 of 2 in cluster B

**MA SHWS** S104545200  
**MA RELEASE** N/A

**Relative:**  
**Lower**  
**Actual:**  
**142 ft.**

**SHWS:**  
Name: NO LOCATION AID  
Address: 4 BROOKFIELD RD  
City,State,Zip: BURLINGTON, MA 01803  
Facility ID: 3-0011228  
Source Type: Not reported  
Release Town: BURLINGTON  
Notification Date: 07/01/1994  
Category: 120 DY  
Associated ID: Not reported  
Current Status: RAO  
Status Date: 06/21/2005  
Phase: Not reported  
Response Action Outcome: A2  
Oil Or Haz Material: Oil

**Release:**  
Name: NO LOCATION AID  
Address: 4 BROOKFIELD RD  
City,State,Zip: BURLINGTON, MA 01803  
Release Tracking Number/Current Status: 3-0011228 / RAO  
Primary ID: Not reported  
Official City: BURLINGTON  
Notification: 07/01/1994  
Category: 120 DY  
Status Date: 06/21/2005  
Phase: Not reported  
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.  
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

**Actions:**  
Action Type: Compliance and Enforcement Action  
Action Status: Notice of Non-Compliance Issued  
Action Date: 1/15/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.  
  
Action Type: Compliance and Enforcement Action  
Action Status: Notice of Non-Compliance Issued  
Action Date: 11/28/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.  
  
Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 4/28/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S104545200**

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 6/21/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 7/1/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 7/1/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 7/18/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:  
Chemical: #2 FUEL OIL  
Quantity: Not reported  
Location Type: RESIDENTIAL

Count: 3 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BURLINGTON	S113805029	7 NEW ENGLAND EXECUTIVE PARK	BURLINGTON MALL RD		MA SHWS, MA RELEASE
BURLINGTON	S126024752	SUMNER STREET @ FOXHILL ROAD	SUMNER STREET	01803	MA SHWS, MA RELEASE
WILMINGTON	S117405657	COMMUTER RAILROAD LINE	BUTTERS ROW & MAIN STREET ADJ		MA SHWS, MA RELEASE

# 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.

## **STANDARD ENVIRONMENTAL RECORDS**

### ***Lists of Federal NPL (Superfund) sites***

#### **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: 01/25/2023	Source: EPA
Date Data Arrived at EDR: 02/03/2023	Telephone: N/A
Date Made Active in Reports: 02/28/2023	Last EDR Contact: 03/01/2023
Number of Days to Update: 25	Next Scheduled EDR Contact: 04/10/2023
	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**

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 01/25/2023	Source: EPA
Date Data Arrived at EDR: 02/02/2023	Telephone: N/A
Date Made Active in Reports: 02/28/2023	Last EDR Contact: 03/01/2023
Number of Days to Update: 26	Next Scheduled EDR Contact: 04/10/2023
	Data Release Frequency: Quarterly

#### **NPL LIENS: 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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: No Update Planned

## ***Lists of Federal Delisted NPL sites***

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: 01/25/2023  
Date Data Arrived at EDR: 02/02/2023  
Date Made Active in Reports: 02/28/2023  
Number of Days to Update: 26

Source: EPA  
Telephone: N/A  
Last EDR Contact: 03/01/2023  
Next Scheduled EDR Contact: 04/10/2023  
Data Release Frequency: Quarterly

## ***Lists of Federal sites subject to CERCLA removals and CERCLA orders***

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 12/20/2022  
Date Data Arrived at EDR: 12/21/2022  
Date Made Active in Reports: 03/10/2023  
Number of Days to Update: 79

Source: Environmental Protection Agency  
Telephone: 703-603-8704  
Last EDR Contact: 03/28/2023  
Next Scheduled EDR Contact: 07/10/2023  
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list 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). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 01/25/2023  
Date Data Arrived at EDR: 02/02/2023  
Date Made Active in Reports: 02/28/2023  
Number of Days to Update: 26

Source: EPA  
Telephone: 800-424-9346  
Last EDR Contact: 03/01/2023  
Next Scheduled EDR Contact: 04/24/2023  
Data Release Frequency: Quarterly

## ***Lists of Federal CERCLA sites with NFRAP***

SEMS-ARCHIVE: Superfund Enterprise Management System Archive



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS 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 the 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. The 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 potential NPL site.

Date of Government Version: 01/25/2023	Source: EPA
Date Data Arrived at EDR: 02/02/2023	Telephone: 800-424-9346
Date Made Active in Reports: 02/28/2023	Last EDR Contact: 03/01/2023
Number of Days to Update: 26	Next Scheduled EDR Contact: 04/24/2023
	Data Release Frequency: Quarterly

## ***Lists of Federal RCRA facilities undergoing Corrective Action***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/06/2023	Source: EPA
Date Data Arrived at EDR: 03/09/2023	Telephone: 800-424-9346
Date Made Active in Reports: 03/20/2023	Last EDR Contact: 03/09/2023
Number of Days to Update: 11	Next Scheduled EDR Contact: 07/03/2023
	Data Release Frequency: Quarterly

## ***Lists of Federal RCRA TSD facilities***

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

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. 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). 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.

Date of Government Version: 03/06/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/09/2023	Telephone: (888) 372-7341
Date Made Active in Reports: 03/20/2023	Last EDR Contact: 03/09/2023
Number of Days to Update: 11	Next Scheduled EDR Contact: 07/03/2023
	Data Release Frequency: Quarterly

## ***Lists of Federal RCRA generators***

RCRA-LQG: RCRA - Large Quantity Generators

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. 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). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/06/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/09/2023	Telephone: (888) 372-7341
Date Made Active in Reports: 03/20/2023	Last EDR Contact: 03/09/2023
Number of Days to Update: 11	Next Scheduled EDR Contact: 07/03/2023
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## RCRA-SQG: RCRA - Small Quantity Generators

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. 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). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/06/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/09/2023	Telephone: (888) 372-7341
Date Made Active in Reports: 03/20/2023	Last EDR Contact: 03/09/2023
Number of Days to Update: 11	Next Scheduled EDR Contact: 07/03/2023
	Data Release Frequency: Quarterly

## RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

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. 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). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/06/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/09/2023	Telephone: (888) 372-7341
Date Made Active in Reports: 03/20/2023	Last EDR Contact: 03/09/2023
Number of Days to Update: 11	Next Scheduled EDR Contact: 07/03/2023
	Data Release Frequency: Quarterly

## ***Federal institutional controls / engineering controls registries***

### LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 11/02/2022	Source: Department of the Navy
Date Data Arrived at EDR: 11/08/2022	Telephone: 843-820-7326
Date Made Active in Reports: 01/10/2023	Last EDR Contact: 02/03/2023
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/22/2023
	Data Release Frequency: Varies

### 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: 10/27/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/16/2022	Telephone: 703-603-0695
Date Made Active in Reports: 02/09/2023	Last EDR Contact: 02/21/2023
Number of Days to Update: 85	Next Scheduled EDR Contact: 06/05/2023
	Data Release Frequency: Varies

### US INST CONTROLS: Institutional Controls Sites List

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: 10/27/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/16/2022	Telephone: 703-603-0695
Date Made Active in Reports: 02/09/2023	Last EDR Contact: 02/21/2023
Number of Days to Update: 85	Next Scheduled EDR Contact: 06/05/2023
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **Federal ERNS list**

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: 12/12/2022	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 12/14/2022	Telephone: 202-267-2180
Date Made Active in Reports: 12/19/2022	Last EDR Contact: 03/21/2023
Number of Days to Update: 5	Next Scheduled EDR Contact: 07/03/2023
	Data Release Frequency: Quarterly

## **Lists of state- and tribal hazardous waste facilities**

SHWS: Site Transition List

Contains information on releases of oil and hazardous materials that have been reported to DEP.

Date of Government Version: 01/08/2023	Source: Department of Environmental Protection
Date Data Arrived at EDR: 01/19/2023	Telephone: 617-292-5990
Date Made Active in Reports: 03/21/2023	Last EDR Contact: 01/19/2023
Number of Days to Update: 61	Next Scheduled EDR Contact: 04/17/2023
	Data Release Frequency: Quarterly

## **Lists of state and tribal landfills and solid waste disposal facilities**

LF PROFILES: Landfill Profiles Listing

This spreadsheet describes landfills that have actively accepted waste or have closed under MassDEP Solid Waste Regulations first adopted in 1971 (310 CMR 16.00 and 310 CMR 19.00). The list does not include landfills that closed before 1971 (and which never had a MassDEP permit or approval), or for which agency data is incomplete.

Date of Government Version: 07/01/2015	Source: Department of Environmental Protection
Date Data Arrived at EDR: 10/27/2015	Telephone: 617-292-5868
Date Made Active in Reports: 12/14/2015	Last EDR Contact: 03/30/2023
Number of Days to Update: 48	Next Scheduled EDR Contact: 07/10/2023
	Data Release Frequency: Varies

SWF/LF: Solid Waste Facility Database/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: 05/02/2022	Source: Department of Environmental Protection
Date Data Arrived at EDR: 05/03/2022	Telephone: 617-292-5989
Date Made Active in Reports: 07/22/2022	Last EDR Contact: 03/30/2023
Number of Days to Update: 80	Next Scheduled EDR Contact: 07/10/2023
	Data Release Frequency: Annually

## **Lists of state and tribal leaking storage tanks**

LAST: Leaking Aboveground Storage Tank Sites

Sites within the Releases Database that have a AST listed as its source.

Date of Government Version: 01/08/2023	Source: Department of Environmental Protection
Date Data Arrived at EDR: 01/19/2023	Telephone: 617-292-5500
Date Made Active in Reports: 03/21/2023	Last EDR Contact: 01/19/2023
Number of Days to Update: 61	Next Scheduled EDR Contact: 04/17/2023
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LUST: Leaking Underground Storage Tank Listing

Sites within the Leaking Underground Storage Tank Listing that have a UST listed as its source.

Date of Government Version: 01/08/2023	Source: Department of Environmental Protection
Date Data Arrived at EDR: 01/19/2023	Telephone: 617-292-5990
Date Made Active in Reports: 03/21/2023	Last EDR Contact: 01/19/2023
Number of Days to Update: 61	Next Scheduled EDR Contact: 04/17/2023
	Data Release Frequency: Quarterly

## 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: 11/23/2022	Source: EPA Region 8
Date Data Arrived at EDR: 12/06/2022	Telephone: 303-312-6271
Date Made Active in Reports: 03/03/2023	Last EDR Contact: 01/17/2023
Number of Days to Update: 87	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

## 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: 11/23/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/06/2022	Telephone: 415-972-3372
Date Made Active in Reports: 03/03/2023	Last EDR Contact: 01/17/2023
Number of Days to Update: 87	Next Scheduled EDR Contact: 05/01/2023
	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: 11/23/2022	Source: EPA Region 6
Date Data Arrived at EDR: 12/06/2022	Telephone: 214-665-6597
Date Made Active in Reports: 03/03/2023	Last EDR Contact: 01/17/2023
Number of Days to Update: 87	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

## 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: 10/19/2022	Source: EPA Region 1
Date Data Arrived at EDR: 12/06/2022	Telephone: 617-918-1313
Date Made Active in Reports: 03/03/2023	Last EDR Contact: 01/17/2023
Number of Days to Update: 87	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

## INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/20/2022	Source: EPA Region 10
Date Data Arrived at EDR: 06/13/2022	Telephone: 206-553-2857
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 01/17/2023
Number of Days to Update: 64	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

## INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/14/2022	Source: EPA Region 7
Date Data Arrived at EDR: 12/06/2022	Telephone: 913-551-7003
Date Made Active in Reports: 03/03/2023	Last EDR Contact: 01/17/2023
Number of Days to Update: 87	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 11/26/2022	Source: EPA Region 4
Date Data Arrived at EDR: 12/06/2022	Telephone: 404-562-8677
Date Made Active in Reports: 03/03/2023	Last EDR Contact: 01/17/2023
Number of Days to Update: 87	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land  
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/14/2022	Source: EPA, Region 5
Date Data Arrived at EDR: 12/06/2022	Telephone: 312-886-7439
Date Made Active in Reports: 03/03/2023	Last EDR Contact: 01/17/2023
Number of Days to Update: 87	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

## ***Lists of state and tribal registered storage tanks***

FEMA UST: Underground Storage Tank Listing  
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 10/14/2021	Source: FEMA
Date Data Arrived at EDR: 11/05/2021	Telephone: 202-646-5797
Date Made Active in Reports: 02/01/2022	Last EDR Contact: 03/29/2023
Number of Days to Update: 88	Next Scheduled EDR Contact: 07/17/2023
	Data Release Frequency: Varies

UST: Summary Listing of all the Tanks Registered in the State of Massachusetts  
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: 01/11/2023	Source: Department of Fire Services, Office of the Public Safety
Date Data Arrived at EDR: 01/12/2023	Telephone: 617-556-1035
Date Made Active in Reports: 03/06/2023	Last EDR Contact: 03/10/2023
Number of Days to Update: 53	Next Scheduled EDR Contact: 04/24/2023
	Data Release Frequency: Quarterly

AST: Aboveground Storage Tank Database  
Registered Aboveground Storage Tanks.

Date of Government Version: 12/16/2022	Source: Department of Public Safety
Date Data Arrived at EDR: 01/10/2023	Telephone: 617-556-1035
Date Made Active in Reports: 03/06/2023	Last EDR Contact: 01/10/2023
Number of Days to Update: 55	Next Scheduled EDR Contact: 04/24/2023
	Data Release Frequency: No Update Planned

AST 2: Aboveground Storage Tanks  
Aboveground storage tanks

Date of Government Version: 01/09/2023	Source: Department of Fire Services
Date Data Arrived at EDR: 01/12/2023	Telephone: 978-567-3181
Date Made Active in Reports: 03/30/2023	Last EDR Contact: 01/06/2023
Number of Days to Update: 77	Next Scheduled EDR Contact: 04/24/2023
	Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land  
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/23/2022  
Date Data Arrived at EDR: 12/06/2022  
Date Made Active in Reports: 03/03/2023  
Number of Days to Update: 87

Source: EPA Region 4  
Telephone: 404-562-9424  
Last EDR Contact: 01/17/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies

## INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 11/23/2022  
Date Data Arrived at EDR: 12/06/2022  
Date Made Active in Reports: 03/03/2023  
Number of Days to Update: 87

Source: EPA Region 8  
Telephone: 303-312-6137  
Last EDR Contact: 01/17/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies

## INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 10/14/2022  
Date Data Arrived at EDR: 12/06/2022  
Date Made Active in Reports: 03/03/2023  
Number of Days to Update: 87

Source: EPA Region 7  
Telephone: 913-551-7003  
Last EDR Contact: 01/17/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies

## INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/19/2022  
Date Data Arrived at EDR: 12/06/2022  
Date Made Active in Reports: 03/03/2023  
Number of Days to Update: 87

Source: EPA, Region 1  
Telephone: 617-918-1313  
Last EDR Contact: 01/17/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies

## INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/14/2022  
Date Data Arrived at EDR: 12/06/2022  
Date Made Active in Reports: 03/03/2023  
Number of Days to Update: 87

Source: EPA Region 5  
Telephone: 312-886-6136  
Last EDR Contact: 01/17/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies

## INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 11/23/2022  
Date Data Arrived at EDR: 12/06/2022  
Date Made Active in Reports: 03/03/2023  
Number of Days to Update: 87

Source: EPA Region 6  
Telephone: 214-665-7591  
Last EDR Contact: 01/17/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies

## INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/20/2022	Source: EPA Region 10
Date Data Arrived at EDR: 06/13/2022	Telephone: 206-553-2857
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 01/17/2023
Number of Days to Update: 64	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

## INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 11/23/2022	Source: EPA Region 9
Date Data Arrived at EDR: 12/06/2022	Telephone: 415-972-3368
Date Made Active in Reports: 03/03/2023	Last EDR Contact: 01/17/2023
Number of Days to Update: 87	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

## ***State and tribal institutional control / engineering control registries***

### INST CONTROL: Sites With Activity and Use Limitation

Activity and Use Limitations establish limits and conditions on the future use of contaminated property, and therefore allow cleanups to be tailored to these uses.

Date of Government Version: 01/08/2023	Source: Department of Environmental Protection
Date Data Arrived at EDR: 01/19/2023	Telephone: 617-292-5990
Date Made Active in Reports: 03/21/2023	Last EDR Contact: 01/19/2023
Number of Days to Update: 61	Next Scheduled EDR Contact: 04/17/2023
	Data Release Frequency: Quarterly

## ***Lists of state and tribal voluntary cleanup sites***

### INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 07/08/2021
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

### INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 03/17/2023
Number of Days to Update: 142	Next Scheduled EDR Contact: 07/03/2023
	Data Release Frequency: Varies

## ***Lists of state and tribal brownfield sites***

### BROWNFIELDS 2: Potential Brownfields Listing

A listing of potential brownfields site locations in the state.

Date of Government Version: 12/03/2019	Source: Department of Environmental Protection
Date Data Arrived at EDR: 01/29/2021	Telephone: 617-556-1007
Date Made Active in Reports: 04/21/2021	Last EDR Contact: 01/27/2023
Number of Days to Update: 82	Next Scheduled EDR Contact: 05/08/2023
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## BROWNFIELDS: Completed Brownfields Covenants Listing

Under Massachusetts law, M.G.L. c. 21E is the statute that governs the cleanup of releases of oil and/or hazardous material to the environment. The Brownfields Act of 1998 amended M.G.L. c. 21E by establishing significant liability relief and financial incentives to spur the redevelopment of brownfields, while ensuring that the Commonwealth's environmental standards are met. Most brownfields are redeveloped with the benefit of liability protections that operate automatically under M.G.L. c. 21E.

Date of Government Version: 04/05/2017  
Date Data Arrived at EDR: 08/03/2017  
Date Made Active in Reports: 10/10/2017  
Number of Days to Update: 68

Source: Office of the Attorney General  
Telephone: 617-963-2423  
Last EDR Contact: 01/27/2023  
Next Scheduled EDR Contact: 05/08/2023  
Data Release Frequency: Annually

## ADDITIONAL ENVIRONMENTAL RECORDS

### **Local Brownfield lists**

#### US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 02/23/2022  
Date Data Arrived at EDR: 03/10/2022  
Date Made Active in Reports: 03/10/2022  
Number of Days to Update: 0

Source: Environmental Protection Agency  
Telephone: 202-566-2777  
Last EDR Contact: 03/14/2023  
Next Scheduled EDR Contact: 06/26/2023  
Data Release Frequency: Semi-Annually

### **Local Lists of Landfill / Solid Waste Disposal Sites**

#### INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998  
Date Data Arrived at EDR: 12/03/2007  
Date Made Active in Reports: 01/24/2008  
Number of Days to Update: 52

Source: Environmental Protection Agency  
Telephone: 703-308-8245  
Last EDR Contact: 01/20/2023  
Next Scheduled EDR Contact: 05/08/2023  
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

#### DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009  
Date Data Arrived at EDR: 05/07/2009  
Date Made Active in Reports: 09/21/2009  
Number of Days to Update: 137

Source: EPA, Region 9  
Telephone: 415-947-4219  
Last EDR Contact: 01/13/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: No Update Planned



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014	Source: Department of Health & Human Services, Indian Health Service
Date Data Arrived at EDR: 08/06/2014	Telephone: 301-443-1452
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 01/27/2023
Number of Days to Update: 176	Next Scheduled EDR Contact: 05/08/2023
	Data Release Frequency: Varies

## Local Lists of Hazardous waste / Contaminated Sites

### US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 01/06/2023	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 02/02/2023	Telephone: 202-307-1000
Date Made Active in Reports: 02/10/2023	Last EDR Contact: 02/02/2023
Number of Days to Update: 8	Next Scheduled EDR Contact: 06/05/2023
	Data Release Frequency: No Update Planned

### US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 01/06/2023	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 02/02/2023	Telephone: 202-307-1000
Date Made Active in Reports: 02/10/2023	Last EDR Contact: 02/02/2023
Number of Days to Update: 8	Next Scheduled EDR Contact: 06/05/2023
	Data Release Frequency: Quarterly

## Local Land Records

### LIENS: Liens Information Listing

A listing of environmental liens.

Date of Government Version: 03/07/2018	Source: Department of Environmental Protection
Date Data Arrived at EDR: 03/09/2018	Telephone: 617-292-5628
Date Made Active in Reports: 06/21/2018	Last EDR Contact: 02/09/2023
Number of Days to Update: 104	Next Scheduled EDR Contact: 05/29/2023
	Data Release Frequency: Varies

### LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 01/25/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/02/2023	Telephone: 202-564-6023
Date Made Active in Reports: 02/28/2023	Last EDR Contact: 03/01/2023
Number of Days to Update: 26	Next Scheduled EDR Contact: 04/10/2023
	Data Release Frequency: Semi-Annually

## Records of Emergency Release Reports

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/13/2022	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 12/14/2022	Telephone: 202-366-4555
Date Made Active in Reports: 03/10/2023	Last EDR Contact: 03/21/2023
Number of Days to Update: 86	Next Scheduled EDR Contact: 07/03/2023
	Data Release Frequency: Quarterly

## MA SPILLS: Historical Spill List

The Spills Database was the release notification tracking system for spills that occurred prior to October 1, 1993. This information should be considered to be primarily of historical interest since all of the listed spills have either been cleaned up or assigned new tracking numbers and moved to the Reportable Releases or Sites Transition List databases.

Date of Government Version: 09/30/1993	Source: Department of Environmental Protection
Date Data Arrived at EDR: 12/03/2003	Telephone: 617-292-5720
Date Made Active in Reports: 12/31/2003	Last EDR Contact: 12/03/2003
Number of Days to Update: 28	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## RELEASE: Reportable Releases

Contains information on all releases of oil and hazardous materials that have been reported to DEP

Date of Government Version: 01/08/2023	Source: Department of Environmental Protection
Date Data Arrived at EDR: 01/19/2023	Telephone: 617-292-5990
Date Made Active in Reports: 03/21/2023	Last EDR Contact: 01/19/2023
Number of Days to Update: 61	Next Scheduled EDR Contact: 04/17/2023
	Data Release Frequency: Quarterly

## SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 12/11/2012	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/08/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 03/10/1998	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 03/05/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 61	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## **Other Ascertainable Records**

### RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

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. 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). Non-Generators do not presently generate hazardous waste.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/06/2023  
Date Data Arrived at EDR: 03/09/2023  
Date Made Active in Reports: 03/20/2023  
Number of Days to Update: 11

Source: Environmental Protection Agency  
Telephone: (888) 372-7341  
Last EDR Contact: 03/09/2023  
Next Scheduled EDR Contact: 07/03/2023  
Data Release Frequency: Quarterly

## 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: 11/01/2022  
Date Data Arrived at EDR: 11/10/2022  
Date Made Active in Reports: 02/09/2023  
Number of Days to Update: 91

Source: U.S. Army Corps of Engineers  
Telephone: 202-528-4285  
Last EDR Contact: 02/14/2023  
Next Scheduled EDR Contact: 05/29/2023  
Data Release Frequency: Varies

## DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021  
Date Data Arrived at EDR: 07/13/2021  
Date Made Active in Reports: 03/09/2022  
Number of Days to Update: 239

Source: USGS  
Telephone: 888-275-8747  
Last EDR Contact: 01/13/2023  
Next Scheduled EDR Contact: 04/24/2023  
Data Release Frequency: Varies

## FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018  
Date Data Arrived at EDR: 04/11/2018  
Date Made Active in Reports: 11/06/2019  
Number of Days to Update: 574

Source: U.S. Geological Survey  
Telephone: 888-275-8747  
Last EDR Contact: 01/03/2023  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: N/A

## SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 07/30/2021  
Date Data Arrived at EDR: 02/03/2023  
Date Made Active in Reports: 02/10/2023  
Number of Days to Update: 7

Source: Environmental Protection Agency  
Telephone: 615-532-8599  
Last EDR Contact: 02/02/2023  
Next Scheduled EDR Contact: 05/22/2023  
Data Release Frequency: Varies

## US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 12/13/2022  
Date Data Arrived at EDR: 12/14/2022  
Date Made Active in Reports: 03/10/2023  
Number of Days to Update: 86

Source: Environmental Protection Agency  
Telephone: 202-566-1917  
Last EDR Contact: 03/21/2023  
Next Scheduled EDR Contact: 07/03/2023  
Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 01/30/2023
Number of Days to Update: 88	Next Scheduled EDR Contact: 05/15/2023
	Data Release Frequency: Quarterly

### 2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/08/2018	Telephone: 703-308-4044
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 02/03/2023
Number of Days to Update: 73	Next Scheduled EDR Contact: 05/15/2023
	Data Release Frequency: Varies

### 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: 12/31/2020	Source: EPA
Date Data Arrived at EDR: 06/14/2022	Telephone: 202-260-5521
Date Made Active in Reports: 03/24/2023	Last EDR Contact: 03/13/2023
Number of Days to Update: 283	Next Scheduled EDR Contact: 06/26/2023
	Data Release Frequency: Every 4 Years

### 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: 12/31/2021	Source: EPA
Date Data Arrived at EDR: 11/01/2022	Telephone: 202-566-0250
Date Made Active in Reports: 02/09/2023	Last EDR Contact: 02/16/2023
Number of Days to Update: 100	Next Scheduled EDR Contact: 05/29/2023
	Data Release Frequency: Annually

### 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: 10/17/2022	Source: EPA
Date Data Arrived at EDR: 10/18/2022	Telephone: 202-564-4203
Date Made Active in Reports: 01/10/2023	Last EDR Contact: 01/18/2023
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Annually



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 01/25/2023	Source: EPA
Date Data Arrived at EDR: 02/02/2023	Telephone: 703-416-0223
Date Made Active in Reports: 02/28/2023	Last EDR Contact: 03/01/2023
Number of Days to Update: 26	Next Scheduled EDR Contact: 06/12/2023
	Data Release Frequency: Annually

## RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/27/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/04/2022	Telephone: 202-564-8600
Date Made Active in Reports: 05/10/2022	Last EDR Contact: 01/17/2023
Number of Days to Update: 6	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Varies

## RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

## PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/27/2022	Source: EPA
Date Data Arrived at EDR: 11/01/2022	Telephone: 202-564-6023
Date Made Active in Reports: 11/15/2022	Last EDR Contact: 03/01/2023
Number of Days to Update: 14	Next Scheduled EDR Contact: 05/15/2023
	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: 01/20/2022	Source: EPA
Date Data Arrived at EDR: 01/20/2022	Telephone: 202-566-0500
Date Made Active in Reports: 03/25/2022	Last EDR Contact: 01/04/2023
Number of Days to Update: 64	Next Scheduled EDR Contact: 04/17/2023
	Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 03/29/2023
Number of Days to Update: 79	Next Scheduled EDR Contact: 07/17/2023
	Data Release Frequency: Quarterly

**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: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

**FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)**  
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

## 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: 10/26/2022	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 11/22/2022	Telephone: 301-415-7169
Date Made Active in Reports: 12/05/2022	Last EDR Contact: 01/17/2023
Number of Days to Update: 13	Next Scheduled EDR Contact: 05/01/2023
	Data Release Frequency: Quarterly

## COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2020	Source: Department of Energy
Date Data Arrived at EDR: 11/30/2021	Telephone: 202-586-8719
Date Made Active in Reports: 02/22/2022	Last EDR Contact: 03/03/2023
Number of Days to Update: 84	Next Scheduled EDR Contact: 06/12/2023
	Data Release Frequency: Varies

## COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/05/2019	Telephone: N/A
Date Made Active in Reports: 11/11/2019	Last EDR Contact: 02/27/2023
Number of Days to Update: 251	Next Scheduled EDR Contact: 06/12/2023
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/06/2019	Telephone: 202-566-0517
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 02/03/2023
Number of Days to Update: 96	Next Scheduled EDR Contact: 05/15/2023
	Data Release Frequency: Varies

## RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/01/2019	Telephone: 202-343-9775
Date Made Active in Reports: 09/23/2019	Last EDR Contact: 03/23/2023
Number of Days to Update: 84	Next Scheduled EDR Contact: 07/10/2023
	Data Release Frequency: Quarterly

## HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

## HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

## DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 01/28/2020	Telephone: 202-366-4595
Date Made Active in Reports: 04/17/2020	Last EDR Contact: 01/24/2023
Number of Days to Update: 80	Next Scheduled EDR Contact: 05/08/2023
	Data Release Frequency: Quarterly

## 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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/30/2022  
Date Data Arrived at EDR: 10/21/2022  
Date Made Active in Reports: 01/10/2023  
Number of Days to Update: 81

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 01/03/2023  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Varies

## 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: 12/31/2021  
Date Data Arrived at EDR: 03/09/2023  
Date Made Active in Reports: 03/20/2023  
Number of Days to Update: 11

Source: EPA/NTIS  
Telephone: 800-424-9346  
Last EDR Contact: 03/09/2023  
Next Scheduled EDR Contact: 07/03/2023  
Data Release Frequency: Biennially

## 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: 12/31/2014  
Date Data Arrived at EDR: 07/14/2015  
Date Made Active in Reports: 01/10/2017  
Number of Days to Update: 546

Source: USGS  
Telephone: 202-208-3710  
Last EDR Contact: 01/06/2023  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Semi-Annually

## FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/26/2021  
Date Data Arrived at EDR: 07/27/2021  
Date Made Active in Reports: 10/22/2021  
Number of Days to Update: 87

Source: Department of Energy  
Telephone: 202-586-3559  
Last EDR Contact: 01/30/2023  
Next Scheduled EDR Contact: 05/15/2023  
Data Release Frequency: Varies

## 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: 08/30/2019  
Date Data Arrived at EDR: 11/15/2019  
Date Made Active in Reports: 01/28/2020  
Number of Days to Update: 74

Source: Department of Energy  
Telephone: 505-845-0011  
Last EDR Contact: 02/13/2023  
Next Scheduled EDR Contact: 05/29/2023  
Data Release Frequency: Varies

## LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/25/2023  
Date Data Arrived at EDR: 02/02/2023  
Date Made Active in Reports: 02/28/2023  
Number of Days to Update: 26

Source: Environmental Protection Agency  
Telephone: 703-603-8787  
Last EDR Contact: 03/01/2023  
Next Scheduled EDR Contact: 04/10/2023  
Data Release Frequency: Varies

## LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/05/2001  
Date Data Arrived at EDR: 10/27/2010  
Date Made Active in Reports: 12/02/2010  
Number of Days to Update: 36

Source: American Journal of Public Health  
Telephone: 703-305-6451  
Last EDR Contact: 12/02/2009  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016  
Date Data Arrived at EDR: 10/26/2016  
Date Made Active in Reports: 02/03/2017  
Number of Days to Update: 100

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 09/26/2017  
Next Scheduled EDR Contact: 01/08/2018  
Data Release Frequency: Annually

## US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016  
Date Data Arrived at EDR: 10/26/2016  
Date Made Active in Reports: 02/03/2017  
Number of Days to Update: 100

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 09/26/2017  
Next Scheduled EDR Contact: 01/08/2018  
Data Release Frequency: Annually

## US 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: 11/07/2022  
Date Data Arrived at EDR: 11/17/2022  
Date Made Active in Reports: 02/10/2023  
Number of Days to Update: 85

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 02/22/2023  
Next Scheduled EDR Contact: 06/05/2023  
Data Release Frequency: Semi-Annually

## MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 02/27/2023  
Date Data Arrived at EDR: 03/01/2023  
Date Made Active in Reports: 03/24/2023  
Number of Days to Update: 23

Source: DOL, Mine Safety & Health Admi  
Telephone: 202-693-9424  
Last EDR Contact: 02/23/2023  
Next Scheduled EDR Contact: 06/12/2023  
Data Release Frequency: Quarterly

## US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020  
Date Data Arrived at EDR: 05/27/2020  
Date Made Active in Reports: 08/13/2020  
Number of Days to Update: 78

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 02/24/2023  
Next Scheduled EDR Contact: 06/05/2023  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011	Source: USGS
Date Data Arrived at EDR: 06/08/2011	Telephone: 703-648-7709
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 02/24/2023
Number of Days to Update: 97	Next Scheduled EDR Contact: 06/05/2023
	Data Release Frequency: Varies

## ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 12/20/2022	Source: Department of Interior
Date Data Arrived at EDR: 12/20/2022	Telephone: 202-208-2609
Date Made Active in Reports: 03/10/2023	Last EDR Contact: 03/16/2023
Number of Days to Update: 80	Next Scheduled EDR Contact: 06/19/2023
	Data Release Frequency: Quarterly

## 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: 02/02/2023	Source: EPA
Date Data Arrived at EDR: 02/28/2023	Telephone: (617) 918-1111
Date Made Active in Reports: 03/24/2023	Last EDR Contact: 02/28/2023
Number of Days to Update: 24	Next Scheduled EDR Contact: 06/12/2023
	Data Release Frequency: Quarterly

## UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 11/09/2021	Source: Department of Defense
Date Data Arrived at EDR: 10/20/2022	Telephone: 703-704-1564
Date Made Active in Reports: 01/10/2023	Last EDR Contact: 01/09/2023
Number of Days to Update: 82	Next Scheduled EDR Contact: 04/24/2023
	Data Release Frequency: Varies

## ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/25/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/30/2022	Telephone: 202-564-2280
Date Made Active in Reports: 12/22/2022	Last EDR Contact: 01/04/2023
Number of Days to Update: 83	Next Scheduled EDR Contact: 04/17/2023
	Data Release Frequency: Quarterly

## DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/06/2021  
Date Data Arrived at EDR: 05/21/2021  
Date Made Active in Reports: 08/11/2021  
Number of Days to Update: 82

Source: Environmental Protection Agency  
Telephone: 202-564-0527  
Last EDR Contact: 02/24/2023  
Next Scheduled EDR Contact: 06/05/2023  
Data Release Frequency: Varies

## FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 11/10/2022  
Date Data Arrived at EDR: 11/10/2022  
Date Made Active in Reports: 02/09/2023  
Number of Days to Update: 91

Source: EPA  
Telephone: 800-385-6164  
Last EDR Contact: 02/14/2023  
Next Scheduled EDR Contact: 05/29/2023  
Data Release Frequency: Quarterly

## PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 02/23/2022  
Date Data Arrived at EDR: 07/08/2022  
Date Made Active in Reports: 11/08/2022  
Number of Days to Update: 123

Source: Environmental Protection Agency  
Telephone: 703-603-8895  
Last EDR Contact: 01/10/2023  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Varies

## PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 02/23/2022  
Date Data Arrived at EDR: 03/31/2022  
Date Made Active in Reports: 11/08/2022  
Number of Days to Update: 222

Source: Environmental Protection Agency  
Telephone: 202-272-0167  
Last EDR Contact: 03/30/2023  
Next Scheduled EDR Contact: 07/17/2023  
Data Release Frequency: Varies

## PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 01/03/2022  
Date Data Arrived at EDR: 03/31/2022  
Date Made Active in Reports: 11/08/2022  
Number of Days to Update: 222

Source: Environmental Protection Agency  
Telephone: 202-272-0167  
Last EDR Contact: 03/30/2023  
Next Scheduled EDR Contact: 07/17/2023  
Data Release Frequency: Varies

## PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST\_HANDLING\_INSTR), Non-hazardous waste description (NON\_HAZ\_WASTE\_DESCRIPTION), DOT printed information (DOT\_PRINTED\_INFORMATION), Waste line handling instructions (WASTE\_LINE\_HANDLING\_INSTR), Waste residue comments (WASTE\_RESIDUE\_COMMENTS).

Date of Government Version: 01/03/2022  
Date Data Arrived at EDR: 03/31/2022  
Date Made Active in Reports: 11/08/2022  
Number of Days to Update: 222

Source: Environmental Protection Agency  
Telephone: 202-272-0167  
Last EDR Contact: 03/30/2023  
Next Scheduled EDR Contact: 07/17/2023  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020	Source: Department of Health & Human Services
Date Data Arrived at EDR: 03/17/2021	Telephone: 202-741-5770
Date Made Active in Reports: 11/08/2022	Last EDR Contact: 01/23/2023
Number of Days to Update: 601	Next Scheduled EDR Contact: 05/08/2023
	Data Release Frequency: Varies

## PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 01/03/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/31/2022	Telephone: 202-272-0167
Date Made Active in Reports: 11/08/2022	Last EDR Contact: 03/30/2023
Number of Days to Update: 222	Next Scheduled EDR Contact: 07/17/2023
	Data Release Frequency: Varies

## PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits.

Date of Government Version: 01/03/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/31/2022	Telephone: 202-272-0167
Date Made Active in Reports: 11/08/2022	Last EDR Contact: 03/30/2023
Number of Days to Update: 222	Next Scheduled EDR Contact: 07/17/2023
	Data Release Frequency: Varies

## PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 01/03/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/31/2022	Telephone: 202-272-0167
Date Made Active in Reports: 11/08/2022	Last EDR Contact: 03/30/2023
Number of Days to Update: 222	Next Scheduled EDR Contact: 07/17/2023
	Data Release Frequency: Varies

## PFAS ECHO FIRE TRAINING: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facility's name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 08/22/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/31/2022	Telephone: 202-272-0167
Date Made Active in Reports: 11/08/2022	Last EDR Contact: 03/30/2023
Number of Days to Update: 222	Next Scheduled EDR Contact: 07/17/2023
	Data Release Frequency: Varies



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## PFAS PART 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration's document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 08/22/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/26/2022	Telephone: 202-272-0167
Date Made Active in Reports: 11/08/2022	Last EDR Contact: 03/30/2023
Number of Days to Update: 13	Next Scheduled EDR Contact: 07/17/2023
	Data Release Frequency: Varies

## AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 02/23/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/31/2022	Telephone: 202-272-0167
Date Made Active in Reports: 11/08/2022	Last EDR Contact: 03/30/2023
Number of Days to Update: 222	Next Scheduled EDR Contact: 07/17/2023
	Data Release Frequency: Varies

## PFAS: PFAS Contaminated Sites Listing

Detection of Per- and Polyfluoroalkyl Substances (PFAS) in drinking water.

Date of Government Version: 12/09/2022	Source: Department of Environmental Protection
Date Data Arrived at EDR: 12/12/2022	Telephone: 617-292-6770
Date Made Active in Reports: 03/06/2023	Last EDR Contact: 03/23/2023
Number of Days to Update: 84	Next Scheduled EDR Contact: 07/10/2023
	Data Release Frequency: Varies

## AIRS: Permitted Facilities Listing

A listing of Air Quality permit applications.

Date of Government Version: 01/12/2023	Source: Department of Environmental Protection
Date Data Arrived at EDR: 01/13/2023	Telephone: 617-292-5789
Date Made Active in Reports: 03/30/2023	Last EDR Contact: 01/06/2023
Number of Days to Update: 76	Next Scheduled EDR Contact: 04/24/2023
	Data Release Frequency: Varies

## ASBESTOS: Asbestos Notification Listing

Asbestos sites

Date of Government Version: 11/16/2022	Source: Department of Environmental Protection
Date Data Arrived at EDR: 11/17/2022	Telephone: 617-292-5982
Date Made Active in Reports: 02/13/2023	Last EDR Contact: 03/09/2023
Number of Days to Update: 88	Next Scheduled EDR Contact: 05/29/2023
	Data Release Frequency: Varies

## DRYCLEANERS: Regulated Drycleaning Facilities

A listing of Department of Environmental Protection regulated drycleaning facilities that use perchloroethylene under the Environmental Results Program.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/07/2022  
Date Data Arrived at EDR: 12/13/2022  
Date Made Active in Reports: 01/12/2023  
Number of Days to Update: 30

Source: Department of Environmental Protection  
Telephone: 617-292-5633  
Last EDR Contact: 02/22/2023  
Next Scheduled EDR Contact: 04/24/2023  
Data Release Frequency: Varies

## ENFORCEMENT: Enforcement Action Cases

A listing of enforcement action cases tracked by Department of Environmental Protection programs, including Solid Waste and Hazardous Waste.

Date of Government Version: 01/09/2023  
Date Data Arrived at EDR: 01/10/2023  
Date Made Active in Reports: 01/12/2023  
Number of Days to Update: 2

Source: Department of Environmental Quality  
Telephone: 617-292-5979  
Last EDR Contact: 01/06/2023  
Next Scheduled EDR Contact: 04/24/2023  
Data Release Frequency: Varies

## Financial Assurance 1: Financial Assurance Information Listing

Information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 12/01/2010  
Date Data Arrived at EDR: 12/23/2010  
Date Made Active in Reports: 02/03/2011  
Number of Days to Update: 42

Source: Department of Environmental Protection  
Telephone: 617-292-5970  
Last EDR Contact: 03/02/2023  
Next Scheduled EDR Contact: 06/19/2023  
Data Release Frequency: Varies

## Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for underground storage tanks. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 01/11/2023  
Date Data Arrived at EDR: 01/12/2023  
Date Made Active in Reports: 03/06/2023  
Number of Days to Update: 53

Source: Office of State Fire Marshal  
Telephone: 978-567-3100  
Last EDR Contact: 03/10/2023  
Next Scheduled EDR Contact: 04/24/2023  
Data Release Frequency: Varies

## Financial Assurance 3: Financial Assurance Information listing

Information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay

Date of Government Version: 10/24/2022  
Date Data Arrived at EDR: 01/12/2023  
Date Made Active in Reports: 03/07/2023  
Number of Days to Update: 54

Source: Department of Environmental Protection  
Telephone: 617-292-5970  
Last EDR Contact: 01/06/2023  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Varies

## GWDP: Ground Water Discharge Permits

The Ground Water Discharge Permits datalayer (formerly known as Groundwater Discharge Points) is a statewide point dataset containing approximate locations of permitted discharges to groundwater.

Date of Government Version: 12/29/2021  
Date Data Arrived at EDR: 01/25/2022  
Date Made Active in Reports: 04/18/2022  
Number of Days to Update: 83

Source: MassGIS  
Telephone: 617-556-1150  
Last EDR Contact: 01/24/2023  
Next Scheduled EDR Contact: 05/08/2023  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## HW GEN: List of Massachusetts Hazardous Waste Generators

Permanent generator identification numbers for all Massachusetts generators of hazardous waste and waste oil that have registered with or notified MassDEP of their hazardous waste activities.

Date of Government Version: 11/18/2022	Source: Department of Environmental Protection
Date Data Arrived at EDR: 12/14/2022	Telephone: 617-292-5500
Date Made Active in Reports: 03/06/2023	Last EDR Contact: 03/21/2023
Number of Days to Update: 82	Next Scheduled EDR Contact: 07/03/2023
	Data Release Frequency: Semi-Annually

## MERCURY: Mercury Product Recycling Drop-Off Locations Listing

A listing of locations, collecting and recycling for mercury-added products. Mercury is toxic to the human nervous system, as well as fish and animals. Mercury can enter the body either through skin absorption or through inhalation of mercury vapors. At room temperature, small beads of mercury will vaporize.

Date of Government Version: 09/26/2022	Source: Department of Environmental Protection
Date Data Arrived at EDR: 09/26/2022	Telephone: 617-292-5632
Date Made Active in Reports: 12/09/2022	Last EDR Contact: 02/09/2023
Number of Days to Update: 74	Next Scheduled EDR Contact: 05/29/2023
	Data Release Frequency: Varies

## NPDES: NPDES Permit Listing

Listing of treatment plants in Massachusetts that hold permits to discharge to groundwater.

Date of Government Version: 12/16/2022	Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/07/2023	Telephone: 508-767-2781
Date Made Active in Reports: 02/14/2023	Last EDR Contact: 02/07/2023
Number of Days to Update: 7	Next Scheduled EDR Contact: 05/22/2023
	Data Release Frequency: Varies

## TIER 2: Tier 2 Information Listing

A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report

Date of Government Version: 12/31/2019	Source: Massachusetts Emergency Management Agency
Date Data Arrived at EDR: 07/19/2021	Telephone: 508-820-2019
Date Made Active in Reports: 08/17/2021	Last EDR Contact: 01/23/2023
Number of Days to Update: 29	Next Scheduled EDR Contact: 04/24/2023
	Data Release Frequency: Annually

## TSD: TSD Facility

List of Licensed Hazardous Waste Treatment, Storage Disposal Facilities (TSDFs) in Massachusetts.

Date of Government Version: 11/18/2022	Source: Department of Environmental Protection
Date Data Arrived at EDR: 12/14/2022	Telephone: 617-292-5580
Date Made Active in Reports: 03/06/2023	Last EDR Contact: 03/21/2023
Number of Days to Update: 82	Next Scheduled EDR Contact: 07/03/2023
	Data Release Frequency: Varies

## UIC: Underground Injection Control Listing

A list of UIC registration data and their locations

Date of Government Version: 03/10/2022	Source: Department of Environmental Protection
Date Data Arrived at EDR: 03/15/2022	Telephone: 617-566-1172
Date Made Active in Reports: 06/10/2022	Last EDR Contact: 02/03/2023
Number of Days to Update: 87	Next Scheduled EDR Contact: 05/22/2023
	Data Release Frequency: Varies

## PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/14/2011  
Date Data Arrived at EDR: 08/05/2011  
Date Made Active in Reports: 09/29/2011  
Number of Days to Update: 55

Source: EPA, Office of Water  
Telephone: 202-564-2496  
Last EDR Contact: 03/30/2023  
Next Scheduled EDR Contact: 07/17/2023  
Data Release Frequency: Semi-Annually

## PCS INACTIVE: Listing of Inactive PCS Permits

An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014  
Date Data Arrived at EDR: 01/06/2015  
Date Made Active in Reports: 05/06/2015  
Number of Days to Update: 120

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 03/30/2023  
Next Scheduled EDR Contact: 07/17/2023  
Data Release Frequency: Semi-Annually

## PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014  
Date Data Arrived at EDR: 02/05/2015  
Date Made Active in Reports: 03/06/2015  
Number of Days to Update: 29

Source: EPA  
Telephone: 202-564-2497  
Last EDR Contact: 03/30/2023  
Next Scheduled EDR Contact: 07/17/2023  
Data Release Frequency: Varies

## MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

Date of Government Version: 08/23/2022  
Date Data Arrived at EDR: 11/22/2022  
Date Made Active in Reports: 02/28/2023  
Number of Days to Update: 98

Source: USGS  
Telephone: 703-648-6533  
Last EDR Contact: 02/24/2023  
Next Scheduled EDR Contact: 06/05/2023  
Data Release Frequency: Varies

## PFAS TRIS: List of PFAS Added to the TRI

Section 7321 of the National Defense Authorization Act for Fiscal Year 2020 (NDAA) immediately added certain per- and polyfluoroalkyl substances (PFAS) to the list of chemicals covered by the Toxics Release Inventory (TRI) under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) and provided a framework for additional PFAS to be added to TRI on an annual basis.

Date of Government Version: 03/07/2023  
Date Data Arrived at EDR: 03/07/2023  
Date Made Active in Reports: 03/24/2023  
Number of Days to Update: 17

Source: Environmental Protection Agency  
Telephone: 202-566-0250  
Last EDR Contact: 03/30/2023  
Next Scheduled EDR Contact: 07/17/2023  
Data Release Frequency: Varies

## EDR HIGH RISK HISTORICAL RECORDS

### ***EDR Exclusive Records***

#### EDR MGP: 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



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

## EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

## EDR RECOVERED GOVERNMENT ARCHIVES

### *Exclusive Recovered Govt. Archives*

#### RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Protection in Massachusetts.

Date of Government Version: N/A	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 12/24/2013	Last EDR Contact: 06/01/2012
Number of Days to Update: 176	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

#### RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Protection in Massachusetts.

Date of Government Version: N/A	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 12/24/2013	Last EDR Contact: 06/01/2012
Number of Days to Update: 176	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

### CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 11/16/2022	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 11/16/2022	Telephone: 860-424-3375
Date Made Active in Reports: 02/06/2023	Last EDR Contact: 02/10/2023
Number of Days to Update: 82	Next Scheduled EDR Contact: 05/22/2023
	Data Release Frequency: No Update Planned

### NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018	Source: Department of Environmental Protection
Date Data Arrived at EDR: 04/10/2019	Telephone: N/A
Date Made Active in Reports: 05/16/2019	Last EDR Contact: 03/30/2023
Number of Days to Update: 36	Next Scheduled EDR Contact: 07/17/2023
	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: 01/01/2019	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 10/29/2021	Telephone: 518-402-8651
Date Made Active in Reports: 01/19/2022	Last EDR Contact: 01/27/2023
Number of Days to Update: 82	Next Scheduled EDR Contact: 05/08/2023
	Data Release Frequency: Quarterly

### PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/19/2019	Telephone: 717-783-8990
Date Made Active in Reports: 09/10/2019	Last EDR Contact: 01/06/2023
Number of Days to Update: 53	Next Scheduled EDR Contact: 04/24/2023
	Data Release Frequency: Annually

### RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2020	Source: Department of Environmental Management
Date Data Arrived at EDR: 11/30/2021	Telephone: 401-222-2797
Date Made Active in Reports: 02/18/2022	Last EDR Contact: 02/13/2022
Number of Days to Update: 80	Next Scheduled EDR Contact: 05/29/2023
	Data Release Frequency: Annually

### VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 10/28/2019	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 10/29/2019	Telephone: 802-241-3443
Date Made Active in Reports: 01/09/2020	Last EDR Contact: 01/06/2023
Number of Days to Update: 72	Next Scheduled EDR Contact: 04/24/2023
	Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018  
Date Data Arrived at EDR: 06/19/2019  
Date Made Active in Reports: 09/03/2019  
Number of Days to Update: 76

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 03/06/2023  
Next Scheduled EDR Contact: 06/19/2023  
Data Release Frequency: Annually

## Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

## Electric Power Transmission Line Data

Source: Endeavor Business Media

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**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.

**Flood Zone Data:** This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA  
Telephone: 877-336-2627  
Date of Government Version: 2003, 2015

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory  
Source: MassDEP  
Telephone: 617-292-5907

Current USGS 7.5 Minute Topographic Map  
Source: U.S. Geological Survey

### **STREET AND ADDRESS INFORMATION**

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## GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

FOX HILL ELEMENTARY SCHOOL  
252 FOX HILL ROAD  
BURLINGTON, MA 01803

### TARGET PROPERTY COORDINATES

Latitude (North):	42.529052 - 42° 31' 44.59"
Longitude (West):	71.188461 - 71° 11' 18.46"
Universal Tranverse Mercator:	Zone 19
UTM X (Meters):	320257.0
UTM Y (Meters):	4710625.5
Elevation:	173 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map:	11762185 WILMINGTON, MA
Version Date:	2018

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

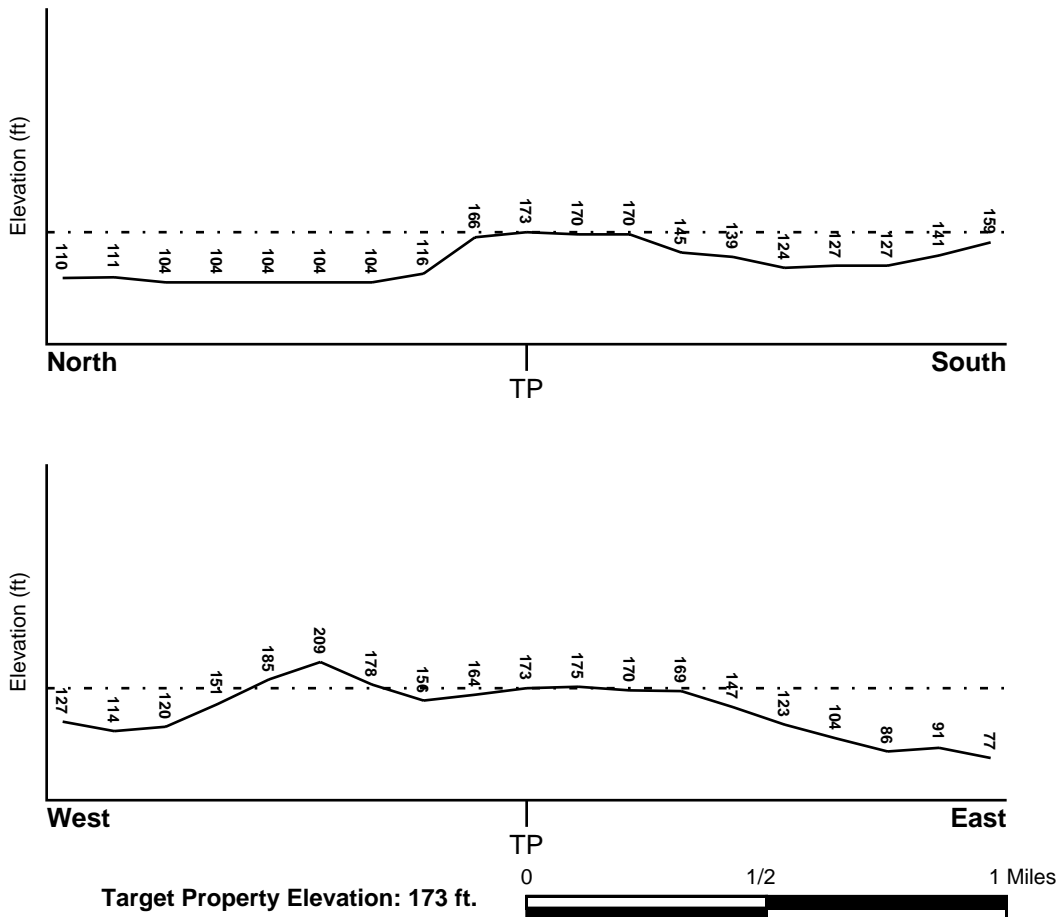
## TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NNW

## SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

## **FEMA FLOOD ZONE**

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
25017C0289E	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
25017C0287E	FEMA FIRM Flood data
25017C0291E	FEMA FIRM Flood data
25017C0293E	FEMA FIRM Flood data

## **NATIONAL WETLAND INVENTORY**

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
WILMINGTON	YES - refer to the Overview Map and Detail Map

## HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## **AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

## GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

### ROCK STRATIGRAPHIC UNIT

Era: Paleozoic  
System: Ordovician  
Series: Lower Paleozoic granitic rocks  
Code: Pzg1 (*decoded above as Era, System & Series*)

### GEOLOGIC AGE IDENTIFICATION

Category: Plutonic and Intrusive Rocks

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: MONTAUK

Soil Surface Texture: extremely stony - sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: LOW

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	2 inches	extremely stony - sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 0.60	Max: 6.00 Min: 3.60
2	2 inches	27 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 0.60	Max: 6.00 Min: 3.60
3	27 inches	72 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 0.60 Min: 0.06	Max: 6.00 Min: 3.60

### 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: extremely stony - fine sandy loam  
muck  
unweathered bedrock  
very stony - fine sandy loam  
sandy loam

Surficial Soil Types: extremely stony - fine sandy loam  
muck  
unweathered bedrock  
very stony - fine sandy loam  
sandy loam

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: gravelly - loamy sand  
loamy sand  
sand  
unweathered bedrock  
sapric material  
very gravelly - loamy coarse sand  
fine sandy loam  
stratified

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

## WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

## FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
2	USGS40000476871	1/2 - 1 Mile NE

## FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

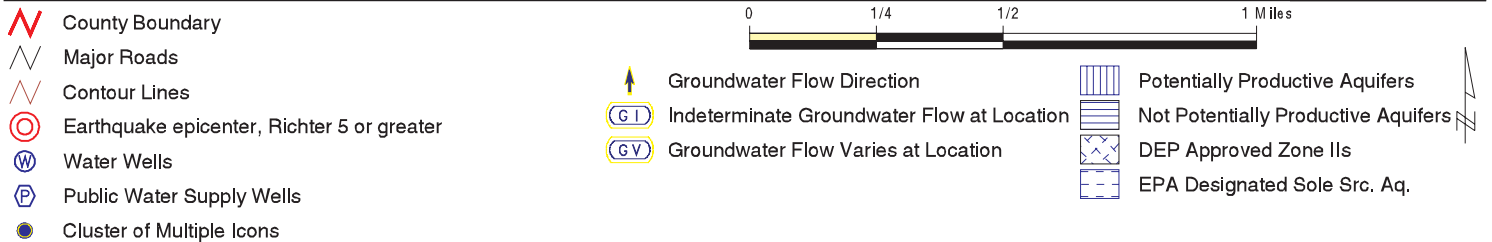
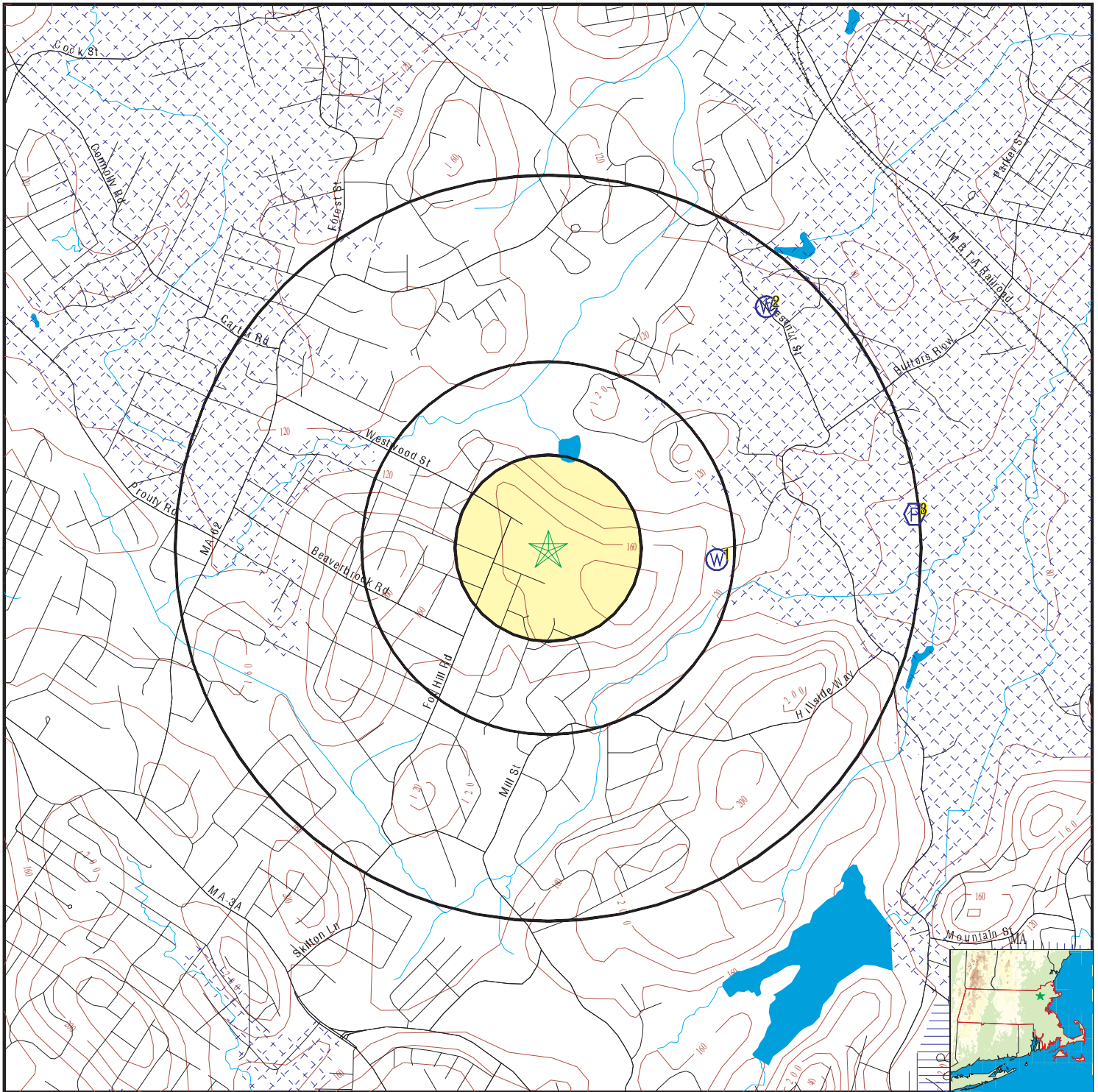
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
3	MA3342000	1/2 - 1 Mile East

Note: PWS System location is not always the same as well location.

## STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	MA9000000003712	1/4 - 1/2 Mile East

# PHYSICAL SETTING SOURCE MAP - 7295798.2s



SITE NAME: Fox Hill Elementary School  
 ADDRESS: 252 Fox Hill Road  
 Burlington MA 01803  
 LAT/LONG: 42.529052 / 71.188461

CLIENT: ECMS, Inc.  
 CONTACT: Cheryl Cambria  
 INQUIRY #: 7295798.2s  
 DATE: March 31, 2023 2:57 pm

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**1**  
**East**  
**1/4 - 1/2 Mile**  
**Lower**

**MA WELLS      MA9000000003712**

PWS ID:	3342001	Site Name:	MILLBROOK COUNTRY DAY SCH INC
Type:	Transient Non-Community	Facility Name:	Not Reported
SubBasin:	IPSWICH		
Basemap:	NA	Accuracy Estimate (ft):	100
Feature Type:	GW	Location Method:	GP_6
Primary Location Source:	SV	Secondary Location Source:	Not Reported
Tertiary Location Source:	Not Reported		
Source ID:	3342001-01G	PWS Name:	MILLBROOK COUNTRY DAY SCH INC
Source Name:	MILLBROOK WELL 1	PWS Status:	A
Source Status:	A	PWS Class:	NC
Source Availability:	ACTIVE		

**2**  
**NE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000476871**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-XMW 19	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	9	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

**3**  
**East**  
**1/2 - 1 Mile**  
**Lower**

**FRDS PWS      MA3342000**

Epa region:	01	State:	MA
Pwsid:	MA3342000	Pwsname:	WILMINGTON WATER DEPT
Cityserved:	Not Reported	Stateserved:	MA
Zipserved:	Not Reported	Fipscounty:	25017
Status:	Active	Retpopsrvd:	22250
Pwssvconn:	7516	Psource longname:	Purch_surface_water
Pwstype:	CWS	Owner:	Local_Govt
Contact:	MICHAEL J WOODS	Contactorgname:	WILMINGTON WATER DEPT
Contactphone:	9786584711	Contactaddress1:	121 GLEN ROAD
Contactaddress2:	Not Reported	Contactcity:	WILMINGTON
Contactstate:	MA	Contactzip:	01887
Pwsactivitycode:	A		
Pwsid:	MA3342000	Facid:	11



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Facname:	BUTTERS ROW WATER TREATMENT PLANT	Facactivitycode:	A
Factype:	Treatment_plant	Trtprocess:	ph adjustment
Trtobjective:	corrosion control		
Factypecode:	TP		
Pwsid:	MA3342000	Facid:	11
Facname:	BUTTERS ROW WATER TREATMENT PLANT	Facactivitycode:	A
Factype:	Treatment_plant	Trtprocess:	filtration, rapid sand
Trtobjective:	particulate removal		
Factypecode:	TP		
Pwsid:	MA3342000	Facid:	11
Facname:	BUTTERS ROW WATER TREATMENT PLANT	Facactivitycode:	A
Factype:	Treatment_plant	Trtprocess:	activated carbon, granular
Trtobjective:	taste / odor control		
Factypecode:	TP		
Pwsid:	MA3342000	Facid:	11
Facname:	BUTTERS ROW WATER TREATMENT PLANT	Facactivitycode:	A
Factype:	Treatment_plant	Trtprocess:	gaseous chlorination, post
Trtobjective:	disinfection		
Factypecode:	TP		
Pwsid:	MA3342000	Facid:	11
Facname:	BUTTERS ROW WATER TREATMENT PLANT	Facactivitycode:	A
Factype:	Treatment_plant	Trtprocess:	permanganate
Trtobjective:	iron removal		
Factypecode:	TP		
Pwsid:	MA3342000	Facid:	11
Facname:	BUTTERS ROW WATER TREATMENT PLANT	Facactivitycode:	A
Factype:	Treatment_plant	Trtprocess:	hypochlorination, post
Trtobjective:	disinfection		
Factypecode:	TP		
Pwsid:	MA3342000	Facid:	11
Facname:	BUTTERS ROW WATER TREATMENT PLANT	Facactivitycode:	A
Factype:	Treatment_plant	Trtprocess:	
Trtobjective:	disinfection by-products control	Factypecode:	TP
Trtprocess:	chloramines		
Pwsid:	MA3342000	Facid:	11
Facname:	BUTTERS ROW WATER TREATMENT PLANT	Facactivitycode:	A
Factype:	Treatment_plant	Trtprocess:	sedimentation
Trtobjective:	iron removal		
Factypecode:	TP		
Pwsid:	MA3342000	Facid:	11
Facname:	BUTTERS ROW WATER TREATMENT PLANT	Facactivitycode:	A
Factype:	Treatment_plant	Trtprocess:	aeration, diffused
Trtobjective:	organics removal		
Factypecode:	TP		
Pwsid:	MA3342000	Facid:	11
Facname:	BUTTERS ROW WATER TREATMENT PLANT	Facactivitycode:	A
Factype:	Treatment_plant	Trtprocess:	activated carbon, granular
Trtobjective:	organics removal		
Factypecode:	TP		
Pwsid:	MA3342000	Facid:	11
Facname:	BUTTERS ROW WATER TREATMENT PLANT	Facactivitycode:	A
Factype:	Treatment_plant		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Trtobjective:	particulate removal	Trtprocess:	coagulation
Factypecode:	TP		
Pwsid:	MA3342000	Facid:	11
Facname:	BUTTERS ROW WATER TREATMENT PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	particulate removal	Trtprocess:	flocculation
Factypecode:	TP		
Pwsid:	MA3342000	Facid:	11
Facname:	BUTTERS ROW WATER TREATMENT PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	particulate removal	Trtprocess:	sedimentation
Factypecode:	TP		
Pwsid:	MA3342000	Facid:	12
Facname:	E H SARGENT WATER TREATMENT PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	corrosion control	Trtprocess:	ph adjustment
Factypecode:	TP		
Pwsid:	MA3342000	Facid:	12
Facname:	E H SARGENT WATER TREATMENT PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	gaseous chlorination, post
Factypecode:	TP		
Pwsid:	MA3342000	Facid:	12
Facname:	E H SARGENT WATER TREATMENT PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	iron removal	Trtprocess:	permanganate
Factypecode:	TP		
Pwsid:	MA3342000	Facid:	12
Facname:	E H SARGENT WATER TREATMENT PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	iron removal	Trtprocess:	sedimentation
Factypecode:	TP		
Pwsid:	MA3342000	Facid:	12
Facname:	E H SARGENT WATER TREATMENT PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	organics removal	Trtprocess:	aeration, diffused
Factypecode:	TP		
Pwsid:	MA3342000	Facid:	12
Facname:	E H SARGENT WATER TREATMENT PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	organics removal	Trtprocess:	activated carbon, granular
Factypecode:	TP		
Pwsid:	MA3342000	Facid:	12
Facname:	E H SARGENT WATER TREATMENT PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	particulate removal	Trtprocess:	coagulation
Factypecode:	TP		
Pwsid:	MA3342000	Facid:	12
Facname:	E H SARGENT WATER TREATMENT PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	particulate removal	Trtprocess:	sedimentation
Factypecode:	TP		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pwsid:	MA3342000	Facid:	12
Facname:	E H SARGENT WATER TREATMENT PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	particulate removal	Trtprocess:	flocculation
Factypecode:	TP		
Pwsid:	MA3342000	Facid:	12
Facname:	E H SARGENT WATER TREATMENT PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	particulate removal	Trtprocess:	filtration, rapid sand
Factypecode:	TP		
Pwsid:	MA3342000	Facid:	12
Facname:	E H SARGENT WATER TREATMENT PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	taste / odor control	Trtprocess:	activated carbon, granular
Factypecode:	TP		
Pwsid:	MA3342000	Facid:	12
Facname:	E H SARGENT WATER TREATMENT PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection by-products control		
Trtprocess:	chloramines	Factypecode:	TP
Pwsid:	MA3342000	Facid:	12
Facname:	E H SARGENT WATER TREATMENT PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	hypochlorination, post
Factypecode:	TP		
Pwsid:	MA3342000	Facid:	12
Facname:	E H SARGENT WATER TREATMENT PLANT		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	not reported
Factypecode:	TP		
PWS ID:	MA3342000	PWS name:	WILMINGTON WATER DEPT
Address:	Not Reported	Care of:	115 ANDOVER ST - BROWN'S CROSS
City:	WILMINGTON	State:	MA
Zip:	018870000	Owner:	WILMINGTON WATER DEPT
Source code:	Ground water	Population:	20886
PWS ID:	MA3342000	PWS type:	Mailing
PWS name:	WILMINGTON WATER DEPT	PWS address:	121 GLEN ROAD
PWS city:	WILMINGTON	PWS state:	MA
PWS zip:	018870000	PWS name:	WILMINGTON WATER DEPT
PWS type code:	C	Retail population served:	22666
Contact:	MICHAEL J WOODS	Contact address:	121 GLEN ROAD
Contact address:	WILMINGTON	Contact city:	MA
Contact state:	01	Contact zip:	9786584711
Contact telephone:	Not Reported		
County:	MIDDLESEX	Source:	Ground water
Treatment Objective:	CORROSION CONTROL	Process:	PH ADJUSTMENT, POST
Population:	20886		
County:	MIDDLESEX	Source:	Ground water
Treatment Objective:	DISINFECTION	Process:	GASEOUS CHLORINATION, POST
Population:	20886		
County:	MIDDLESEX	Source:	Ground water
Treatment Objective:	DISINFECTION	Process:	GASEOUS CHLORINATION, PRE

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Population:	20886		
County:	MIDDLESEX	Source:	Ground water
Treatment Objective:	IRON REMOVAL	Process:	PERMANGANATE
Population:	20886		
County:	MIDDLESEX	Source:	Ground water
Treatment Objective:	IRON REMOVAL	Process:	SEDIMENTATION
Population:	20886		
County:	MIDDLESEX	Source:	Ground water
Treatment Objective:	ORGANICS REMOVAL	Process:	ACTIVATED CARBON, GRANULAR
Population:	20886		
County:	MIDDLESEX	Source:	Ground water
Treatment Objective:	ORGANICS REMOVAL	Process:	AERATION, DIFFUSED
Population:	20886		
County:	MIDDLESEX	Source:	Ground water
Treatment Objective:	PARTICULATE REMOVAL	Process:	COAGULATION
Population:	20886		
County:	MIDDLESEX	Source:	Ground water
Treatment Objective:	PARTICULATE REMOVAL	Process:	FILTRATION, RAPID SAND
Population:	20886		
County:	MIDDLESEX	Source:	Ground water
Treatment Objective:	PARTICULATE REMOVAL	Process:	FLOCCULATION
Population:	20886		
County:	MIDDLESEX	Source:	Ground water
Treatment Objective:	PARTICULATE REMOVAL	Process:	SEDIMENTATION
Population:	20886		
County:	MIDDLESEX	Source:	Ground water
Treatment Objective:	TASTE / ODOR CONTROL	Process:	ACTIVATED CARBON, GRANULAR
Population:	20886		
PWS ID:	MA3342000	Activity status:	Active
Date system activated:	9003	Date system deactivated:	Not Reported
Retail population:	00018000	System name:	WILMINGTON WATER DEPT
System address:	BROWN'S CROSSING PUMP STATION	System state:	MA
System city:	WILMINGTON		
System zip:	018870000		
Population served:	10,001 - 50,000 Persons	Treatment:	Mixed (treated and untreated)
Latitude:	423149	Longitude:	0711008
Latitude:	423200	Longitude:	0710955
Latitude:	423442	Longitude:	0710801
Latitude:	423104	Longitude:	0710959
Latitude:	423302	Longitude:	0711228
Latitude:	423330	Longitude:	0711128
Latitude:	423304	Longitude:	0710941
Latitude:	423158	Longitude:	0710957



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Latitude:	423420	Longitude:	0710839
Latitude:	423456	Longitude:	0710843
State:	MA	Latitude degrees:	42
Latitude minutes:	31	Latitude seconds:	49.0000
Longitude degrees:	71	Longitude minutes:	10
Longitude seconds:	8.0000		
State:	MA	Latitude degrees:	42
Latitude minutes:	31	Latitude seconds:	49.0000
Longitude degrees:	71	Longitude minutes:	10
Longitude seconds:	11.0000		
State:	MA	Latitude degrees:	42
Latitude minutes:	31	Latitude seconds:	58.0000
Longitude degrees:	71	Longitude minutes:	10
Longitude seconds:	2.0000		
State:	MA	Latitude degrees:	42
Latitude minutes:	32	Latitude seconds:	1.0000
Longitude degrees:	71	Longitude minutes:	9
Longitude seconds:	54.0000		
State:	MA	Latitude degrees:	42
Latitude minutes:	32	Latitude seconds:	5.0000
Longitude degrees:	71	Longitude minutes:	9
Longitude seconds:	44.0000		
State:	MA	Latitude degrees:	42
Latitude minutes:	33	Latitude seconds:	2.0000
Longitude degrees:	71	Longitude minutes:	12
Longitude seconds:	28.0000		
State:	MA	Latitude degrees:	42
Latitude minutes:	33	Latitude seconds:	31.0000
Longitude degrees:	71	Longitude minutes:	11
Longitude seconds:	29.0000		
State:	MA	Latitude degrees:	42
Latitude minutes:	34	Latitude seconds:	25.0000
Longitude degrees:	71	Longitude minutes:	8
Longitude seconds:	41.0000		
State:	MA	Latitude degrees:	42
Latitude minutes:	34	Latitude seconds:	42.0000
Longitude degrees:	71	Longitude minutes:	8
Longitude seconds:	2.0000		
State:	MA	Latitude degrees:	42
Latitude minutes:	34	Latitude seconds:	56.0000
Longitude degrees:	71	Longitude minutes:	8
Longitude seconds:	52.0000		
Violation id:	03V0001	Orig code:	S
State:	MA	Violation Year:	2002
Contamination code:	1041	Contamination Name:	Nitrite
Violation code:	02	Violation name:	MCL, Average
Rule code:	331	Rule name:	Nitrates
Violation measur:	1.2	Unit of measure:	MG/L
State mcl:	1	Cmp bdt:	10/01/2002
Cmp edt:	12/31/2002		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Violation id:	10	Orig code:	S
State:	MA	Violation Year:	2010
Contamination code:	2976	Contamination Name:	Vinyl chloride
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	310	Rule name:	VOC
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	06/01/2010
Cmp edt:	09/30/2010		
Violation id:	11	Orig code:	S
State:	MA	Violation Year:	2010
Contamination code:	2989	Contamination Name:	CHLOROBENZENE
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	310	Rule name:	VOC
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	06/01/2010
Cmp edt:	09/30/2010		
Violation id:	12	Orig code:	S
State:	MA	Violation Year:	2010
Contamination code:	2968	Contamination Name:	o-Dichlorobenzene
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	310	Rule name:	VOC
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	06/01/2010
Cmp edt:	09/30/2010		
Violation id:	13	Orig code:	S
State:	MA	Violation Year:	2010
Contamination code:	2979	Contamination Name:	trans-1,2-Dichloroethylene
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	310	Rule name:	VOC
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	06/01/2010
Cmp edt:	09/30/2010		
Violation id:	14	Orig code:	S
State:	MA	Violation Year:	2010
Contamination code:	2380	Contamination Name:	cis-1,2-Dichloroethylene
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	310	Rule name:	VOC
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	06/01/2010
Cmp edt:	09/30/2010		
Violation id:	15	Orig code:	S
State:	MA	Violation Year:	2010
Contamination code:	2983	Contamination Name:	1,2-Dichloropropane
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	310	Rule name:	VOC
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	06/01/2010
Cmp edt:	09/30/2010		
Violation id:	16	Orig code:	S
State:	MA	Violation Year:	2010
Contamination code:	2992	Contamination Name:	Ethylbenzene
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	310	Rule name:	VOC
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	06/01/2010
Cmp edt:	09/30/2010		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Violation id:	17	Orig code:	S
State:	MA	Violation Year:	2010
Contamination code:	2996	Contamination Name:	Styrene
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	310	Rule name:	VOC
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	06/01/2010
Cmp edt:	09/30/2010		

Violation id:	18	Orig code:	S
State:	MA	Violation Year:	2010
Contamination code:	2987	Contamination Name:	Tetrachloroethylene
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	310	Rule name:	VOC
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	06/01/2010
Cmp edt:	09/30/2010		

Violation id:	19	Orig code:	S
State:	MA	Violation Year:	2010
Contamination code:	2991	Contamination Name:	Toluene
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	310	Rule name:	VOC
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	06/01/2010
Cmp edt:	09/30/2010		

Violation id:	2	Orig code:	S
State:	MA	Violation Year:	2007
Contamination code:	1041	Contamination Name:	Nitrite
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	331	Rule name:	Nitrates
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2007
Cmp edt:	09/30/2007		

Violation id:	20	Orig code:	S
State:	MA	Violation Year:	2010
Contamination code:	2969	Contamination Name:	p-Dichlorobenzene
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	310	Rule name:	VOC
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	06/01/2010
Cmp edt:	09/30/2010		

Violation id:	21	Orig code:	S
State:	MA	Violation Year:	2010
Contamination code:	2955	Contamination Name:	Xylenes, Total
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	310	Rule name:	VOC
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	06/01/2010
Cmp edt:	09/30/2010		

Violation id:	22	Orig code:	S
State:	MA	Violation Year:	2010
Contamination code:	2964	Contamination Name:	DICHLOROMETHANE
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	310	Rule name:	VOC
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	06/01/2010
Cmp edt:	09/30/2010		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Violation id:	23	Orig code:	S
State:	MA	Violation Year:	2010
Contamination code:	2962	Contamination Name:	p-Xylene
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	500	Rule name:	Not Regulated
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	06/01/2010
Cmp edt:	09/30/2010		
Violation id:	24	Orig code:	S
State:	MA	Violation Year:	2010
Contamination code:	2985	Contamination Name:	1,1,2-Trichloroethane
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	310	Rule name:	VOC
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	06/01/2010
Cmp edt:	09/30/2010		
Violation id:	25	Orig code:	S
State:	MA	Violation Year:	2010
Contamination code:	2251	Contamination Name:	METHYL TERT-BUTYL ETHER
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	500	Rule name:	Not Regulated
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	06/01/2010
Cmp edt:	09/30/2010		
Violation id:	26	Orig code:	S
State:	MA	Violation Year:	2010
Contamination code:	2378	Contamination Name:	1,2,4-Trichlorobenzene
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	310	Rule name:	VOC
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	06/01/2010
Cmp edt:	09/30/2010		
Violation id:	27	Orig code:	S
State:	MA	Violation Year:	2010
Contamination code:	1039	Contamination Name:	Perchlorate
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	500	Rule name:	Not Regulated
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	06/01/2010
Cmp edt:	09/30/2010		
Violation id:	28	Orig code:	S
State:	MA	Violation Year:	2013
Contamination code:	5000	Contamination Name:	Lead and Copper Rule
Violation code:	52	Violation name:	Follow-up Or Routine LCR Tap M/R
Rule code:	350	Rule name:	LCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/2013
Cmp edt:	Not Reported		
Violation id:	3	Orig code:	S
State:	MA	Violation Year:	2008
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/2008
Cmp edt:	10/31/2008		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Violation id:	4	Orig code:	S
State:	MA	Violation Year:	2010
Contamination code:	2990	Contamination Name:	Benzene
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	310	Rule name:	VOC
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	06/01/2010
Cmp edt:	09/30/2010		
Violation id:	5	Orig code:	S
State:	MA	Violation Year:	2010
Contamination code:	2982	Contamination Name:	Carbon tetrachloride
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	310	Rule name:	VOC
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	06/01/2010
Cmp edt:	09/30/2010		
Violation id:	6	Orig code:	S
State:	MA	Violation Year:	2010
Contamination code:	2977	Contamination Name:	1,1-Dichloroethylene
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	310	Rule name:	VOC
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	06/01/2010
Cmp edt:	09/30/2010		
Violation id:	7	Orig code:	S
State:	MA	Violation Year:	2010
Contamination code:	2980	Contamination Name:	1,2-Dichloroethane
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	310	Rule name:	VOC
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	06/01/2010
Cmp edt:	09/30/2010		
Violation id:	8	Orig code:	S
State:	MA	Violation Year:	2010
Contamination code:	2984	Contamination Name:	Trichloroethylene
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	310	Rule name:	VOC
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	06/01/2010
Cmp edt:	09/30/2010		
Violation id:	9	Orig code:	S
State:	MA	Violation Year:	2010
Contamination code:	2981	Contamination Name:	1,1,1-Trichloroethane
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	310	Rule name:	VOC
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	06/01/2010
Cmp edt:	09/30/2010		
Violation ID:	03V0001	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	10/24/2002
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	10	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	11/09/2010
Enforcement Detail:	St AO (w/o penalty) issued		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Enforcement Category:	Formal		
Violation ID:	11	Orig Code:	S
Enforcement FY:	2011	Enforcement Action:	11/09/2010
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	12	Orig Code:	S
Enforcement FY:	2011	Enforcement Action:	11/09/2010
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	13	Orig Code:	S
Enforcement FY:	2011	Enforcement Action:	11/09/2010
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	14	Orig Code:	S
Enforcement FY:	2011	Enforcement Action:	11/09/2010
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	15	Orig Code:	S
Enforcement FY:	2011	Enforcement Action:	11/09/2010
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	16	Orig Code:	S
Enforcement FY:	2011	Enforcement Action:	11/09/2010
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	17	Orig Code:	S
Enforcement FY:	2011	Enforcement Action:	11/09/2010
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	18	Orig Code:	S
Enforcement FY:	2011	Enforcement Action:	11/09/2010
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	19	Orig Code:	S
Enforcement FY:	2011	Enforcement Action:	11/09/2010
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	2	Orig Code:	S
Enforcement FY:	2008	Enforcement Action:	10/23/2007
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	20	Orig Code:	S
Enforcement FY:	2011	Enforcement Action:	11/09/2010
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	21	Orig Code:	S
Enforcement FY:	2011	Enforcement Action:	11/09/2010
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Violation ID:	22	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	11/09/2010
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	23	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	11/09/2010
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	24	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	11/09/2010
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	25	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	11/09/2010
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	26	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	11/09/2010
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	27	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	11/09/2010
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	3	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	12/05/2008
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	4	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	11/09/2010
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	5	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	11/09/2010
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	6	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	11/09/2010
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	7	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	11/09/2010
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	8	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	11/09/2010
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	9	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	11/09/2010

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Enforcement Detail: St AO (w/o penalty) issued  
 Enforcement Category: Formal

Violation ID:	Not Reported	Orig Code:	S
Enforcement FY:	2002	Enforcement Action:	09/25/2002
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Not Reported		

Violation ID:	Not Reported	Orig Code:	S
Enforcement FY:	2009	Enforcement Action:	07/28/2009
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Not Reported		

Violation ID:	Not Reported	Orig Code:	S
Enforcement FY:	2004	Enforcement Action:	08/16/2004
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Not Reported		

Violation ID:	Not Reported	Orig Code:	S
Enforcement FY:	2007	Enforcement Action:	05/02/2007
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Not Reported		

Violation ID:	Not Reported	Orig Code:	S
Enforcement FY:	2008	Enforcement Action:	05/06/2008
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Not Reported		

PWS name:	WILMINGTON WATER DEPT	Population served:	22666
PWS type code:	C	Violation ID:	03V0001
Contaminant:	NITRITE	Violation type:	2
Compliance start date:	10/1/2002 0:00:00	Compliance end date:	12/31/2002 0:00:00
Enforcement date:	10/24/2002 0:00:00	Enforcement action:	State BCA Signed
Violation measurement:	1.2		

PWS name:	WILMINGTON WATER DEPT	Population served:	22666
PWS type code:	C	Violation ID:	2
Contaminant:	NITRITE	Violation type:	3
Compliance start date:	7/1/2007 0:00:00	Compliance end date:	9/30/2007 0:00:00
Enforcement date:	10/23/2007 0:00:00	Enforcement action:	State Formal NOV Issued
Violation measurement:	Not Reported		

PWS name:	WILMINGTON WATER DEPT	Population served:	22666
PWS type code:	C	Violation ID:	3
Contaminant:	COLIFORM (TCR)	Violation type:	Monitoring, Routine Major (TCR)
Compliance start date:	10/1/2008 0:00:00	Compliance end date:	10/31/2008 0:00:00
Enforcement date:	12/5/2008 0:00:00	Enforcement action:	State Formal NOV Issued
Violation measurement:	Not Reported		

PWS name:	WILMINGTON WATER DEPT	Population served:	22666
PWS type code:	C	Violation ID:	94V0002
Contaminant:	LEAD & COPPER RULE	Violation type:	OCCT Study Recommendation
Compliance start date:	7/1/1993 0:00:00	Compliance end date:	12/31/2025 0:00:00
Enforcement date:	No Enf Action as of	Enforcement action:	7/8/2009 0:00:00
Violation measurement:	0		



# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

State Database: MA Radon

### Radon Test Results

County	% of sites > 4 pCi/L	Median
MIDDLESEX	26	2.2

Federal EPA Radon Zone for MIDDLESEX 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: 01803

Number of sites tested: 8

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	2.575 pCi/L	88%	12%	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.

### Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: Wetland Inventory

Source: MassDEP

Telephone: 617-292-5907

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

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 Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, 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

#### Massachusetts Geographic Information System (MassGIS) Datalayers

Source: Executive Office of Environmental Affairs

Telephone:

#### Public Water Supply Database

Telephone:

The Public Water Supply datalayer contains the locations of public community surface and groundwater supply sources and public non-community supply sources as defined in 310 CMR 22.00.

#### Areas of Critical Environmental Concern

Telephone:

The Areas of Critical Environmental Concern (ACEC) datalayer shows the location of areas that have been designated ACECs by the Secretary of Environmental Affairs. ACEC designation requires greater environmental review of certain kinds of proposed development under state jurisdiction within the ACEC boundaries. The ACEC Program is administered by the Department of Environmental Management (DEM) on behalf of the Secretary of Environmental Affairs. The Massachusetts Coastal Zone Management (MCZM) Office managed the original Coastal ACEC Program from 1978 to 1993, and continues to play a key role in monitoring coastal ACECs. Procedures for ACEC designation and the general policies governing the effects of designation are contained in the ACEC regulations (301 CMR 12.00). The ACEC datalayer has been compiled by MCZM and DEM and includes both coastal and inland areas.

#### EPA Designated Sole Source Aquifers

Telephone:

The Sole Source Aquifer datalayer was compiled by the Department of Environmental Protection (DEP) Division of Water Supply (DWS). Seven Sole Source Aquifers have been designated by the US Environmental Protection Agency (EPA) for Massachusetts. A Sole Source Aquifer (SSA) is an aquifer designated by US EPA 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 that area and for which there are no reasonably available alternative sources should that aquifer become contaminated. The aquifers were defined by an EPA hydrogeologist.

#### Aquifers

Telephone:

MassGIS produced an aquifer datalayer composed of 20 individual panels, generally based on the boundaries of the major drainage basins. Areas of high and medium yield were mapped. This datalayer includes polygon attribute coding to help in the identification of areas in which cleanup of hazardous waste sites must meet drinking water standards, as defined in the Massachusetts Contingency Plan (MCP) (310 CMR 40.00000).

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## Non-Potential Drinking Water Source Areas

### Telephone:

Non-Potential Drinking Water Source Areas (NPDWSA) are regulatory in nature representing one of many considerations used in determining the standards to which ground water must be cleaned in the event of a release of oil or hazardous material. NPDWSAs are not based on existing water quality and do not indicate poor ambient conditions.

## DEP Approved Zone IIs

### Telephone:

The Department of Environmental Protection (DEP) approved Zone IIs datalayer was compiled by the DEP Division of Water Supply (DWS). The database contains 281 approved Zone IIs statewide. As stated in 310 CMR 22.02, a Zone II is 'that area of an aquifer which contributes water to a well under the most severe pumping and recharge conditions that can be realistically anticipated (180 days of pumping at safe yield, with no recharge from precipitation.) It is bounded by the groundwater divides which result from pumping the well and by the contact of the aquifer with less permeable materials such as till or bedrock. In some cases, streams or lakes may act as recharge boundaries. In all cases, Zone IIs shall extend up gradient to its point of intersection with prevailing hydrogeologic boundaries (a groundwater flow divide, a contact with till or bedrock, or a recharge boundary).' These data are used in association with the Public Water Supplies datalayer. The following describes certain unique features of this association.\n - Any proposed new well which will pump at least 100,000 gallons per day must have a Zone II delineation completed and approved by DEP prior to the well coming on line. \n- Additionally, a new source may not be on-line yet, but other, older wells may fall within its Zone II boundary.\n - Further, existing wells must have a Zone II delineated as a condition of receiving a water withdrawal permit under the Water Management Act.

## OTHER STATE DATABASE INFORMATION

### RADON

#### State Database: MA Radon

Source: Department of Health

Telephone: 413-586-7525

Radon Test Results

#### Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

#### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

### OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey



# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## STREET AND ADDRESS INFORMATION

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## APPENDIX G

### ENVIRONMENTAL DATA RESOURCES, INC. (EDR) VAPOR ENCROACHMENT REPORT DATED APRIL 18, 2023

**Fox Hill Elementary School**

252 Fox Hill Road

Burlington, MA 01803

Inquiry Number: 7295798.2s

April 18, 2023

# EDR Vapor Encroachment Screen

Prepared using EDR's Vapor Encroachment Worksheet

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

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by EDR. The report was designed to assist parties seeking to meet the search requirements of the ASTM Standard Practice for Assessment of Vapor Encroachment into Structures on Property Involved in Real Estate Transactions (E 2600).

<b>STANDARD ENVIRONMENTAL RECORDS</b>	<b>Default Area of Concern (Miles)*</b>	<b>property</b>	<b>1/10</b>	<b>&gt; 1/10</b>
Lists of Federal NPL (Superfund) sites	1.0	0	0	0
Lists of Federal Delisted NPL sites	1.0	0	0	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders	0.5	0	0	0
Lists of Federal CERCLA sites with NFRAP	0.5	0	0	0
Lists of Federal RCRA facilities undergoing Corrective Action	1.0	0	0	0
Lists of Federal RCRA TSD facilities	0.5	0	0	0
Lists of Federal RCRA generators	0.25	0	0	0
Federal institutional controls / engineering controls registries	0.5	0	0	0
Federal ERNS list	property	0	-	-
Lists of state- and tribal (Superfund) equivalent sites	not searched	-	-	-
Lists of state- and tribal hazardous waste facilities	1.0	0	0	0
Lists of state and tribal landfills and solid waste disposal facilities	0.5	0	0	0
Lists of state and tribal leaking storage tanks	0.5	0	0	0
Lists of state and tribal registered storage tanks	0.25	0	0	0
State and tribal institutional control / engineering control registries	0.5	0	0	0
Lists of state and tribal voluntary cleanup sites	0.5	0	0	0
Lists of state and tribal brownfield sites	0.5	0	0	0

### ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists	0.5	0	0	0
Local Lists of Landfill / Solid Waste Disposal Sites	0.5	0	0	0
Local Lists of Hazardous waste / Contaminated Sites	property	0	-	-
Local Lists of Registered Storage Tanks	not searched	-	-	-
Local Land Records	property	0	-	-
Records of Emergency Release Reports	property	0	-	-
Other Ascertainable Records	1.0	0	0	0

### EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records	1.0	0	0	0
Exclusive Recovered Govt. Archives	property	0	-	-

## EXECUTIVE SUMMARY

### EDR RECOVERED GOVERNMENT ARCHIVES

EDR Exclusive Records	1.0	0	0	0
Exclusive Recovered Govt. Archives	property	0	-	-

\*The Default Area of Concern may be adjusted by the environmental professional using experience and professional judgement. Each category may include several databases, and each database may have a different distance. A list of individual databases is provided at the back of this report.

# EXECUTIVE SUMMARY

## TARGET PROPERTY INFORMATION

### ADDRESS

FOX HILL ELEMENTARY SCHOOL  
252 FOX HILL ROAD  
BURLINGTON, MA 01803

### COORDINATES

Latitude (North): 42.529052 - 42° 31' 44.589844"  
Longitude (West): 71.188461 - 71° 11' 18.460693"  
Elevation: 173 ft. above sea level

## TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records.

# EXECUTIVE SUMMARY

## SEARCH RESULTS

Unmappable (orphan) sites are not considered in the foregoing analysis.

## STANDARD ENVIRONMENTAL RECORDS

<u>Name</u>	<u>Address</u>	<u>Dist/Dir</u>	<u>Map ID</u>	<u>Page</u>
Not Reported				

## ADDITIONAL ENVIRONMENTAL RECORDS

<u>Name</u>	<u>Address</u>	<u>Dist/Dir</u>	<u>Map ID</u>	<u>Page</u>
Not Reported				

## EDR HIGH RISK HISTORICAL RECORDS

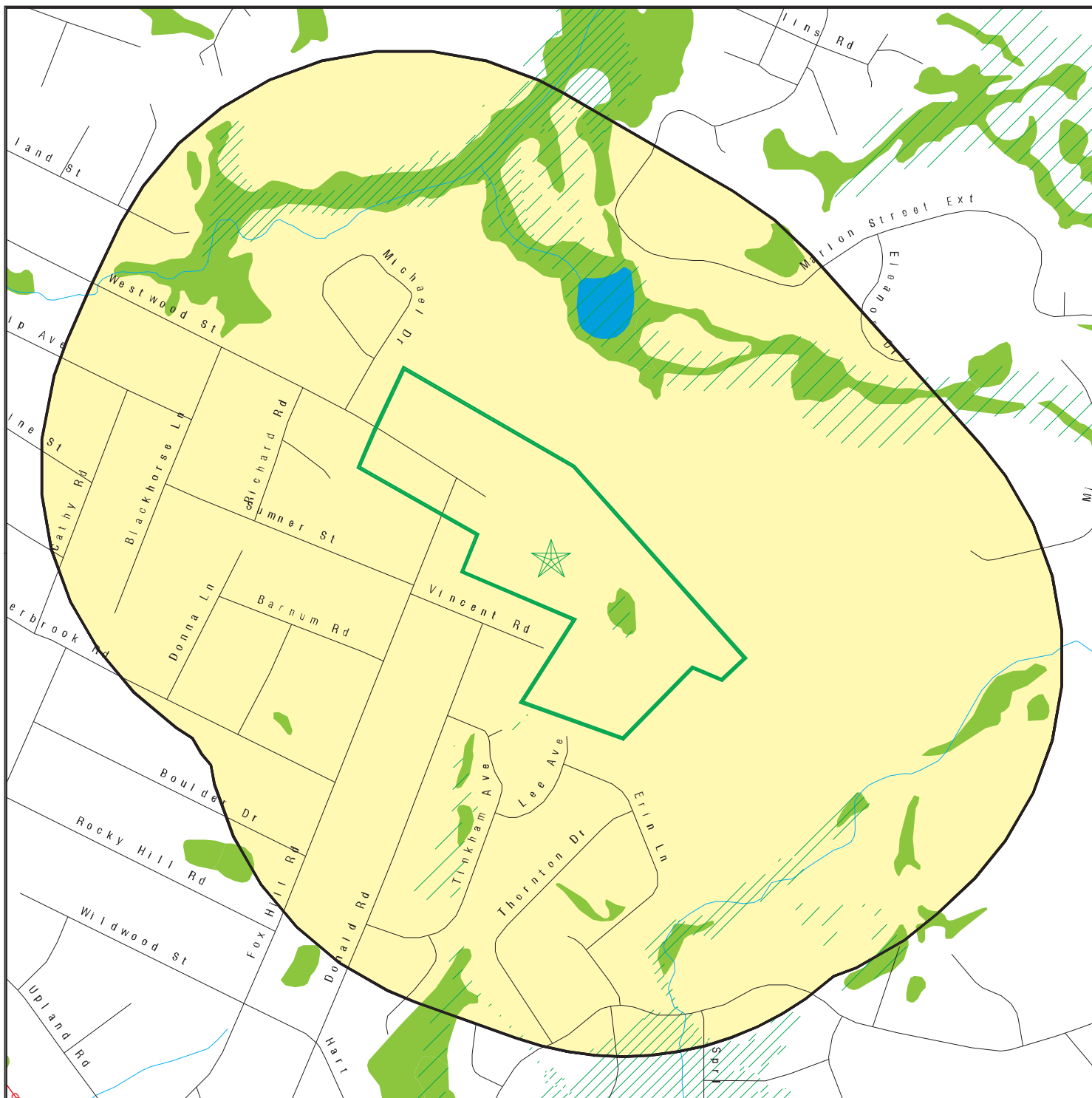
<u>Name</u>	<u>Address</u>	<u>Dist/Dir</u>	<u>Map ID</u>	<u>Page</u>
Not Reported				

## EDR RECOVERED GOVERNMENT ARCHIVES

<u>Name</u>	<u>Address</u>	<u>Dist/Dir</u>	<u>Map ID</u>	<u>Page</u>
Not Reported				



# PRIMARY MAP - 7295798.2S



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

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Areas of Critical Environmental Concern

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: Fox Hill Elementary School  
 ADDRESS: 252 Fox Hill Road  
 Burlington MA 01803  
 LAT/LONG: 42.529052 / 71.188461

CLIENT: ECMS, Inc.  
 CONTACT: Cheryl Cambria  
 INQUIRY #: 7295798.2s  
 DATE: March 31, 2023 2:57 pm

# SECONDARY MAP - 7295798.2S



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

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Upgradient Area

Areas of Critical Environmental Concern

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: Fox Hill Elementary School  
 ADDRESS: 252 Fox Hill Road  
 Burlington MA 01803  
 LAT/LONG: 42.529052 / 71.188461

CLIENT: ECMS, Inc.  
 CONTACT: Cheryl Cambria  
 INQUIRY #: 7295798.2s  
 DATE: March 31, 2023 2:57 pm

MAP FINDINGS

**LEGEND**

<b>FACILITY NAME</b>		<b>FACILITY ADDRESS, CITY, ST, ZIP</b>		<b>EDR SITE ID NUMBER</b>
<b>◆ MAP ID#</b>	Direction	Distance Range	(Distance feet / miles)	ASTM 2600 Record Sources found in this report. Each database searched has been assigned to one or more categories. For detailed information about categorization, see the section of the report Records Searched and Currency.
	Relative Elevation	Feet Above Sea Level		
<b>Worksheet:</b>				
<b>Comments:</b> Comments may be added on the online Vapor Encroachment Worksheet.				

DATABASE ACRONYM: Applicable categories (A hoverbox with database description).

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
<b>ENVIRONMENTAL RECORDS</b>						
<b>Federal NPL site list</b>						
US	NPL	National Priority List	EPA	01/25/2023	02/03/2023	02/28/2023
US	Proposed NPL	Proposed National Priority List Sites	EPA	01/25/2023	02/02/2023	02/28/2023
US	NPL LIENS	Federal Superfund Liens	EPA	10/15/1991	02/02/1994	03/30/1994
<b>Federal CERCLIS list</b>						
US	SEMS	Superfund Enterprise Management System	EPA	01/25/2023	02/02/2023	02/28/2023
<b>Federal RCRA CORRACTS facilities list</b>						
US	CORRACTS	Corrective Action Report	EPA	03/06/2023	03/09/2023	03/20/2023
<b>Federal RCRA TSD facilities list</b>						
US	RCRA-TSDF	RCRA - Treatment, Storage and Disposal	Environmental Protection Agency	03/06/2023	03/09/2023	03/20/2023
<b>Federal RCRA generators list</b>						
US	RCRA-LQG	RCRA - Large Quantity Generators	Environmental Protection Agency	03/06/2023	03/09/2023	03/20/2023
US	RCRA-SQG	RCRA - Small Quantity Generators	Environmental Protection Agency	03/06/2023	03/09/2023	03/20/2023
US	RCRA-VSQG	RCRA - Very Small Quantity Generators (Formerly Conditionall	Environmental Protection Agency	03/06/2023	03/09/2023	03/20/2023
<b>Federal institutional controls / engineering controls registries</b>						
US	LUCIS	Land Use Control Information System	Department of the Navy	11/02/2022	11/08/2022	01/10/2023
US	US ENG CONTROLS	Engineering Controls Sites List	Environmental Protection Agency	10/27/2022	11/16/2022	02/09/2023
US	US INST CONTROLS	Institutional Controls Sites List	Environmental Protection Agency	10/27/2022	11/16/2022	02/09/2023
<b>Federal ERNS list</b>						
US	ERNS	Emergency Response Notification System	National Response Center, United States Coast	12/12/2022	12/14/2022	12/19/2022
<b>State and tribal - equivalent CERCLIS</b>						
MA	SHWS	Site Transition List	Department of Environmental Protection	01/08/2023	01/19/2023	03/21/2023
<b>State and tribal landfill / solid waste disposal</b>						
MA	SWF/LF	Solid Waste Facility Database/Transfer Stations	Department of Environmental Protection	05/02/2022	05/03/2022	07/22/2022
MA	LF PROFILES	Landfill Profiles Listing	Department of Environmental Protection	07/01/2015	10/27/2015	12/14/2015
<b>State and tribal leaking storage tank lists</b>						
MA	LUST	Leaking Underground Storage Tank Listing	Department of Environmental Protection	01/08/2023	01/19/2023	03/21/2023
MA	LAST	Leaking Aboveground Storage Tank Sites	Department of Environmental Protection	01/08/2023	01/19/2023	03/21/2023
US	INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land	EPA Region 1	10/19/2022	12/06/2022	03/03/2023
US	INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land	EPA Region 4	11/26/2022	12/06/2022	03/03/2023
US	INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land	EPA Region 8	11/23/2022	12/06/2022	03/03/2023
US	INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land	Environmental Protection Agency	11/23/2022	12/06/2022	03/03/2023
US	INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land	EPA, Region 5	10/14/2022	12/06/2022	03/03/2023
US	INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land	EPA Region 6	11/23/2022	12/06/2022	03/03/2023
US	INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land	EPA Region 10	04/20/2022	06/13/2022	08/16/2022

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land	EPA Region 7	10/14/2022	12/06/2022	03/03/2023
<b>State and tribal registered storage tank lists</b>						
MA	UST	Summary Listing of all the Tanks Registered in the State of	Department of Fire Services, Office of the Pu	01/11/2023	01/12/2023	03/06/2023
MA	AST	Aboveground Storage Tank Database	Department of Public Safety	12/16/2022	01/10/2023	03/06/2023
MA	AST 2	Aboveground Storage Tanks	Department of Fire Services	01/09/2023	01/12/2023	03/30/2023
US	INDIAN UST R10	Underground Storage Tanks on Indian Land	EPA Region 10	04/20/2022	06/13/2022	08/16/2022
US	INDIAN UST R5	Underground Storage Tanks on Indian Land	EPA Region 5	10/14/2022	12/06/2022	03/03/2023
US	INDIAN UST R4	Underground Storage Tanks on Indian Land	EPA Region 4	11/23/2022	12/06/2022	03/03/2023
US	INDIAN UST R6	Underground Storage Tanks on Indian Land	EPA Region 6	11/23/2022	12/06/2022	03/03/2023
US	INDIAN UST R1	Underground Storage Tanks on Indian Land	EPA, Region 1	10/19/2022	12/06/2022	03/03/2023
US	INDIAN UST R7	Underground Storage Tanks on Indian Land	EPA Region 7	10/14/2022	12/06/2022	03/03/2023
US	INDIAN UST R8	Underground Storage Tanks on Indian Land	EPA Region 8	11/23/2022	12/06/2022	03/03/2023
US	INDIAN UST R9	Underground Storage Tanks on Indian Land	EPA Region 9	11/23/2022	12/06/2022	03/03/2023
US	FEMA UST	Underground Storage Tank Listing	FEMA	10/14/2021	11/05/2021	02/01/2022
<b>State and tribal institutional control / engineering control registries</b>						
MA	INST CONTROL	Sites With Activity and Use Limitation	Department of Environmental Protection	01/08/2023	01/19/2023	03/21/2023
<b>State and tribal voluntary cleanup sites</b>						
US	INDIAN VCP R7	Voluntary Cleanup Priority Listng	EPA, Region 7	03/20/2008	04/22/2008	05/19/2008
US	INDIAN VCP R1	Voluntary Cleanup Priority Listing	EPA, Region 1	07/27/2015	09/29/2015	02/18/2016
<b>State and tribal Brownfields sites</b>						
MA	BROWNFIELDS 2	Potential Brownfields Listing	Department of Environmental Protection	12/03/2019	01/29/2021	04/21/2021
MA	BROWNFIELDS	Completed Brownfields Covenants Listing	Office of the Attorney General	04/05/2017	08/03/2017	10/10/2017
<b>Other Records</b>						
US	CONSENT	Superfund (CERCLA) Consent Decrees	Department of Justice, Consent Decree Library	09/30/2022	10/21/2022	01/10/2023
US	ROD	Records Of Decision	EPA	01/25/2023	02/02/2023	02/28/2023
US	LIENS 2	CERCLA Lien Information	Environmental Protection Agency	01/25/2023	02/02/2023	02/28/2023
US	DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations	EPA, Region 9	01/12/2009	05/07/2009	09/21/2009
US	PCB TRANSFORMER	PCB Transformer Registration Database	Environmental Protection Agency	09/13/2019	11/06/2019	02/10/2020
US	US AIRS MINOR	Air Facility System Data	EPA	10/12/2016	10/26/2016	02/03/2017
US	US AIRS (AFS)	Aerometric Information Retrieval System Facility Subsystem (	EPA	10/12/2016	10/26/2016	02/03/2017
US	EPA WATCH LIST	EPA WATCH LIST	Environmental Protection Agency	08/30/2013	03/21/2014	06/17/2014
US	LEAD SMELTER 2	Lead Smelter Sites	American Journal of Public Health	04/05/2001	10/27/2010	12/02/2010
US	COAL ASH EPA	Coal Combustion Residues Surface Impoundments List	Environmental Protection Agency	01/12/2017	03/05/2019	11/11/2019
US	LEAD SMELTER 1	Lead Smelter Sites	Environmental Protection Agency	01/25/2023	02/02/2023	02/28/2023
US	US FIN ASSUR	Financial Assurance Information	Environmental Protection Agency	12/13/2022	12/14/2022	03/10/2023
US	2020 COR ACTION	2020 Corrective Action Program List	Environmental Protection Agency	09/30/2017	05/08/2018	07/20/2018
US	US HIST CDL	National Clandestine Laboratory Register	Drug Enforcement Administration	01/06/2023	02/02/2023	02/10/2023
US	FUSRAP	Formerly Utilized Sites Remedial Action Program	Department of Energy	07/26/2021	07/27/2021	10/22/2021
US	COAL ASH DOE	Steam-Electric Plant Operation Data	Department of Energy	12/31/2020	11/30/2021	02/22/2022
US	SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing	Environmental Protection Agency	07/30/2021	02/03/2023	02/10/2023
US	Delisted NPL	National Priority List Deletions	EPA	01/25/2023	02/02/2023	02/28/2023
US	SEMS-ARCHIVE	Superfund Enterprise Management System Archive	EPA	01/25/2023	02/02/2023	02/28/2023



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated	Environmental Protection Agency	03/06/2023	03/09/2023	03/20/2023
US	HMIRS	Hazardous Materials Information Reporting System	U.S. Department of Transportation	12/13/2022	12/14/2022	03/10/2023
US	DOT OPS	Incident and Accident Data	Department of Transportation, Office of Pipeli	01/02/2020	01/28/2020	04/17/2020
US	US CDL	Clandestine Drug Labs	Drug Enforcement Administration	01/06/2023	02/02/2023	02/10/2023
US	US BROWNFIELDS	A Listing of Brownfields Sites	Environmental Protection Agency	02/23/2022	03/10/2022	03/10/2022
US	DOD	Department of Defense Sites	USGS	06/07/2021	07/13/2021	03/09/2022
US	FEDLAND	Federal and Indian Lands	U.S. Geological Survey	04/02/2018	04/11/2018	11/06/2019
US	FUDS	Formerly Used Defense Sites	U.S. Army Corps of Engineers	11/01/2022	11/10/2022	02/09/2023
US	UMTRA	Uranium Mill Tailings Sites	Department of Energy	08/30/2019	11/15/2019	01/28/2020
US	ODI	Open Dump Inventory	Environmental Protection Agency	06/30/1985	08/09/2004	09/17/2004
US	US MINES	Mines Master Index File	Department of Labor, Mine Safety and Health A	11/07/2022	11/17/2022	02/10/2023
US	MINES VIOLATIONS	MSHA Violation Assessment Data	DOL, Mine Safety & Health Admi	02/27/2023	03/01/2023	03/24/2023
US	US MINES 2	Ferrous and Nonferrous Metal Mines Database Listing	USGS	05/06/2020	05/27/2020	08/13/2020
US	US MINES 3	Active Mines & Mineral Plants Database Listing	USGS	04/14/2011	06/08/2011	09/13/2011
US	PRP	Potentially Responsible Parties	EPA	10/27/2022	11/01/2022	11/15/2022
US	TRIS	Toxic Chemical Release Inventory System	EPA	12/31/2021	11/01/2022	02/09/2023
US	TSCA	Toxic Substances Control Act	EPA	12/31/2020	06/14/2022	03/24/2023
US	FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA/Office of Prevention, Pesticides and Toxi	04/09/2009	04/16/2009	05/11/2009
US	FTTS INSP	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA	04/09/2009	04/16/2009	05/11/2009
US	HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HIST FTTS INSP	FIFRA/TSCA Tracking System Inspection & Enforcement Case Lis	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	SSTS	Section 7 Tracking Systems	EPA	10/17/2022	10/18/2022	01/10/2023
US	ICIS	Integrated Compliance Information System	Environmental Protection Agency	11/18/2016	11/23/2016	02/10/2017
US	PADS	PCB Activity Database System	EPA	01/20/2022	01/20/2022	03/25/2022
US	MLTS	Material Licensing Tracking System	Nuclear Regulatory Commission	10/26/2022	11/22/2022	12/05/2022
US	RADINFO	Radiation Information Database	Environmental Protection Agency	07/01/2019	07/01/2019	09/23/2019
US	FINDS	Facility Index System/Facility Registry System	EPA	02/02/2023	02/28/2023	03/24/2023
US	RAATS	RCRA Administrative Action Tracking System	EPA	04/17/1995	07/03/1995	08/07/1995
US	RMP	Risk Management Plans	Environmental Protection Agency	04/27/2022	05/04/2022	05/10/2022
US	BRS	Biennial Reporting System	EPA/NTIS	12/31/2021	03/09/2023	03/20/2023
US	PWS	Public Water System Data	EPA	12/17/2013	01/09/2014	10/15/2014
US	INDIAN RESERV	Indian Reservations	USGS	12/31/2014	07/14/2015	01/10/2017
US	INDIAN ODI	Report on the Status of Open Dumps on Indian Lands	Environmental Protection Agency	12/31/1998	12/03/2007	01/24/2008
US	IHS OPEN DUMPS	Open Dumps on Indian Land	Department of Health & Human Services, Indian	04/01/2014	08/06/2014	01/29/2015
US	ABANDONED MINES	Abandoned Mines	Department of Interior	12/20/2022	12/20/2022	03/10/2023
MA	AIRS	Permitted Facilities Listing	Department of Environmental Protection	01/12/2023	01/13/2023	03/30/2023
MA	ASBESTOS	Asbestos Notification Listing	Department of Environmental Protection	11/16/2022	11/17/2022	02/13/2023
MA	DRYCLEANERS	Regulated Drycleaning Facilities	Department of Environmental Protection	12/07/2022	12/13/2022	01/12/2023
MA	ENFORCEMENT	Enforcement Action Cases	Department of Environmental Quality	01/09/2023	01/10/2023	01/12/2023
MA	Financial Assurance 1	Financial Assurance Information Listing	Department of Environmental Protection	12/01/2010	12/23/2010	02/03/2011
MA	Financial Assurance 2	Financial Assurance Information Listing	Office of State Fire Marshal	01/11/2023	01/12/2023	03/06/2023
MA	Financial Assurance 3	Financial Assurance Information listing	Department of Environmental Protection	10/24/2022	01/12/2023	03/07/2023
MA	GWDP	Ground Water Discharge Permits	MassGIS	12/29/2021	01/25/2022	04/18/2022
MA	HW GEN	List of Massachusetts Hazardous Waste Generators	Department of Environmental Protection	11/18/2022	12/14/2022	03/06/2023
MA	LIENS	Liens Information Listing	Department of Environmental Protection	03/07/2018	03/09/2018	06/21/2018
MA	MA SPILLS	Historical Spill List	Department of Environmental Protection	09/30/1993	12/03/2003	12/31/2003
MA	MERCURY	Mercury Product Recycling Drop-Off Locations Listing	Department of Environmental Protection	09/26/2022	09/26/2022	12/09/2022

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
MA	NPDES	NPDES Permit Listing	Department of Environmental Protection	12/16/2022	02/07/2023	02/14/2023
MA	RELEASE	Reportable Releases	Department of Environmental Protection	01/08/2023	01/19/2023	03/21/2023
MA	SPILLS 80	SPILLS80 data from FirstSearch	FirstSearch	03/10/1998	01/03/2013	03/05/2013
MA	SPILLS 90	SPILLS90 data from FirstSearch	FirstSearch	12/11/2012	01/03/2013	02/08/2013
MA	TIER 2	Tier 2 Information Listing	Massachusetts Emergency Management Agency	12/31/2019	07/19/2021	08/17/2021
MA	TSD	TSD Facility	Department of Environmental Protection	11/18/2022	12/14/2022	03/06/2023
MA	UIC	Underground Injection Control Listing	Department of Environmental Protection	03/10/2022	03/15/2022	06/10/2022
US	FUELS PROGRAM	EPA Fuels Program Registered Listing	EPA	11/10/2022	11/10/2022	02/09/2023
US	PFAS ECHO	Facilities in Industries that May Be Handling PFAS Listing	Environmental Protection Agency	01/03/2022	03/31/2022	11/08/2022
US	PFAS FEDERAL SITES	Federal Sites PFAS Information	Environmental Protection Agency	02/23/2022	03/31/2022	11/08/2022
US	PFAS PART 139 AIRPORT	All Certified Part 139 Airports PFAS Information Listing	Environmental Protection Agency	08/22/2018	10/26/2022	11/08/2022
US	PFAS ECHO FIRE TRAINING	Facilities in Industries that May Be Handling PFAS Listing	Environmental Protection Agency	08/22/2018	03/31/2022	11/08/2022
US	PFAS WQP	Ambient Environmental Sampling for PFAS	Environmental Protection Agency	01/03/2022	03/31/2022	11/08/2022
US	PFAS TSCA	PFAS Manufacture and Imports Information	Environmental Protection Agency	01/03/2022	03/31/2022	11/08/2022
MA	PFAS	PFAS Contaminated Sites Listing	Department of Environmental Protection	12/09/2022	12/12/2022	03/06/2023
US	PFAS RCRA MANIFEST	PFAS Transfers Identified In the RCRA Database Listing	Environmental Protection Agency	01/03/2022	03/31/2022	11/08/2022
US	AQUEOUS FOAM NRC	Aqueous Foam Related Incidents Listing	Environmental Protection Agency	02/23/2022	03/31/2022	11/08/2022
US	UXO	Unexploded Ordnance Sites	Department of Defense	11/09/2021	10/20/2022	01/10/2023
US	FEDERAL FACILITY	Federal Facility Site Information listing	Environmental Protection Agency	12/20/2022	12/21/2022	03/10/2023
US	PFAS TRIS	List of PFAS Added to the TRI	Environmental Protection Agency	03/07/2023	03/07/2023	03/24/2023
US	PFAS NPDES	Clean Water Act Discharge Monitoring Information	Environmental Protection Agency	01/03/2022	03/31/2022	11/08/2022
US	PFAS ATSDR	PFAS Contamination Site Location Listing	Department of Health & Human Services	06/24/2020	03/17/2021	11/08/2022
US	MINES MRDS	Mineral Resources Data System	USGS	08/23/2022	11/22/2022	02/28/2023
US	ECHO	Enforcement & Compliance History Information	Environmental Protection Agency	09/25/2022	09/30/2022	12/22/2022
US	PFAS NPL	Superfund Sites with PFAS Detections Information	Environmental Protection Agency	02/23/2022	07/08/2022	11/08/2022
US	DOCKET HWC	Hazardous Waste Compliance Docket Listing	Environmental Protection Agency	05/06/2021	05/21/2021	08/11/2021

### HISTORICAL USE RECORDS

US	EDR MGP	EDR Proprietary Manufactured Gas Plants	EDR, Inc.			
US	EDR Hist Auto	EDR Exclusive Historical Auto Stations	EDR, Inc.			
US	EDR Hist Cleaner	EDR Exclusive Historical Cleaners	EDR, Inc.			
MA	RGA HWS	Recovered Government Archive State Hazardous Waste Facilitie	Department of Environmental Protection		07/01/2013	12/24/2013
MA	RGA LUST	Recovered Government Archive Leaking Underground Storage Tan	Department of Environmental Protection		07/01/2013	12/24/2013

### STREET AND ADDRESS INFORMATION

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## APPENDIX H

### ASTM 1527-13 USER QUESTIONNAIRE

## ASTM E1527-13 USER QUESTIONNAIRE

When the “user” (the party for whom the assessment is being prepared) of the Phase I is required to help the environmental professional identify recognized environmental conditions at the property, a “User Questionnaire” is completed by the user to help gather information that may identify recognized environmental conditions at the property.

We ask that you answer the six questions below to the best of your knowledge. We understand that, in some circumstances, you may have little or no information. Still, we encourage you to complete and return the questionnaire as soon as possible. This will allow us to reflect the fact that the Questionnaire was completed when we issue our report as is required. Completion of the assessment to the new standard, when conducted in connection with the asset purchase of a real property, may entitle the user to certain federal liability protections that result from conducting "All Appropriate Inquiries" into the previous ownership and uses of a property.

On the second page of this form is a list of documentation. The E1527-13 Standard requires that the User will ensure that the consultant is made aware that any of these materials exist for a site, and if so, that these documents be provided for the consultant’s review. Please indicate whether any of these documents are available, and ensure that Environmental Services Company will either receive copies or be provided an opportunity to review the relevant materials.

We appreciate your assistance. If you have any questions, feel free to contact us.

1. Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?  
No
2. Are you aware of any Activity and Use Limitations (AULs), such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?  
No
3. As the user of this ESA do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business? No
4. Does the purchase price/loan amount for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? Yes
5. Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user, (a.) Do you know the past uses of the property? (b.) Do you know of specific chemicals that are present or once were present at the property? (c.) Do you know of spills or other chemical releases that have taken place at the property? (d.) Do you know of any environmental cleanups that have taken place at the property? All No
6. As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?  
No

## ASTM E1527-13 USER QUESTIONNAIRE

**As part of this study, which of the following are you providing?**

1. Previous environmental site assessment reports     Yes     No
2. Environmental compliance audit reports     Yes     No
3. Environmental permits (including but not limited to solid waste disposal permits, hazardous waste disposal permits, wastewater permits, NPDES permits, underground injection permits)  Yes     No
4. Registrations for underground and aboveground storage tanks     Yes     No
5. Registrations for underground injection systems     Yes     No
6. Material safety data sheets     Yes     No
7. Community Right-to-Know plan     Yes     No
8. Safety plans; preparedness and prevention plans; spill prevention, countermeasure, and control plans; etc.     Yes     No
9. Reports regarding hydrogeologic conditions on the property or surrounding area     Yes     No
10. Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property     Yes     No
11. Hazardous waste generator notices or reports     Yes     No
12. Geotechnical studies     Yes     No
13. Risk assessments     Yes     No
14. Recorded Activity and Use Limitations (AULs).     Yes     No

Please contact us if you have any questions regarding these ASTM requirements.

Please Return to Environmental & Construction Management Services, Inc.  
via email to [kevin.kavanaugh@ecmsinc.com](mailto:kevin.kavanaugh@ecmsinc.com)

Completed by: \_\_\_\_\_

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Company: \_\_\_\_\_

Relationship to site  
(i.e. lender, purchaser, owner): \_\_\_\_\_

Date: \_\_\_\_\_